

**WESTSIDE DRIVE SEWER PLANNING
NHDES Project No. D2020-0607**

EXETER, NEW HAMPSHIRE



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Portsmouth, New Hampshire
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1. Project Description

The primary objective of this study was to develop a report phase preliminary design report for the Westside Drive Neighborhood to help mitigate private Infiltration and Inflow (I/I) and plan for future neighborhood infrastructure projects. Private I/I sources (primarily illicit sump pumps connected to the sewer) were previously identified as problematic in this neighborhood so the focus of this study was to identify a basis of design to help address illicit sump pumps while considering the neighborhood's other infrastructure needs.

1.1. Project Background

Underwood Engineers, Inc. (UE) and Town of Exeter, New Hampshire (The Town) entered into the *Westside Drive Sewer Planning Report Phase Engineering Contract* on August 3, 2020 (Appendix A). The scope of work and engineering contract was approved and partially funded using New Hampshire Department of Environmental Services (NHDES) Clean Water State Revolving Loan Fund (CWSRF) planning funding and built on UE's previous wastewater work for the Town. The following are some of the key reports that served as the foundation for this study:

- *Phase III Infiltration and Inflow Evaluation, January 14, 2013* (Phase III I/I Study): This UE study built on previous investigations by others to evaluate Infiltration and Inflow (I/I) in the Town's wastewater collection system. This document served as the Town's Combined Sewer Overflow (CSO) Long-Term Control Plan (LTCP) and identified that a significant portion of I/I in the Town's system originates from private sources. I/I flow peaks were observed to be 10 times higher than sanitary flow during flow metering and the Westside Drive neighborhood was recommended as a location where the Town could perform future private I/I mitigation work.
- *Public Outreach and Private I/I Mitigation Program (2015), January 12, 2016*: UE assisted the Town develop a Town-wide public information mailer and private I/I policy that was supported at all levels of the Town government. This program helped educate sewer users about I/I, why I/I causes issues for the Town's sewers, and how users can help remove private sources of I/I from the sewer. The program included a 5-year illicit sewer connection 'amnesty' program to encourage and provide users time to voluntarily remove private I/I sources from the sewer without fear of enforcement.
- *Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) Update, (January 30, 2017)* This study updated the Town's CSO LTCP and recommended continued private I/I mitigation including addressing private I/I issues in the Westside Drive Neighborhood (see Section 1.2).

Previous sewer investigations found that the majority of I/I in Exeter's wastewater collection system was from private sources which causes sewer flow spikes that can lead to CSOs. The Town's Phase III I/I study and CSO LTCP recommended that private I/I mitigation considerations were necessary for effective overall I/I reduction. However, it was recognized that

private I/I investigations can be intrusive to users and costly, so private I/I investigations were focused in small ‘pilot’ areas with the goal that the findings in the smaller ‘pilot’ areas could be applied to other areas of the Town’s sewer system. The Westside Drive Neighborhood was one of three (3) private I/I pilot area in the Town’s Phase III I/I study and CSO LTCP. The other private I/I study areas included the Jady Hill Neighborhood where the Town completed an infrastructure project several years ago and the neighborhood around Downing Court.

1.2. Conditions Requiring Improvements

The Town’s Phase III I/I study and CSO LTCP found that sump pumps illicitly connected to the sanitary sewer were a significant source of private I/I in Exeter’s system and many illicit sump pumps in the Westside Drive Neighborhood were found connected to the sewer. Unfortunately, redirecting sump pumps from the sewer was found to be challenging in this area because small lots, high groundwater, and limited street drainage infrastructure limited viable alternative sump pump discharge locations. The primary goal of this study was to develop a plan to improve sump pump management in this neighborhood that was also consistent with Westside Drive’s other infrastructure needs.



The 2017 *CSO LTCP Update* evaluated three alternatives to mitigate private I/I in the Westside Drive Neighborhood. These alternatives focused on providing residents with a better location to discharge illicit sump pumps and included:

1. Roadside drainage swales
2. Perforated underdrain with sump pump/drain service connections
3. Sump pump force main system

Schematics of these alternatives are provided (Appendix M). The 2017 *CSO LTCP* recommended roadside swales at that time as the lowest capital cost option. However, it also recommended additional evaluation and public participation to confirm the feasibility of swales which served as the foundation/basis for the evaluations performed during this study.

1.3. Project Goals and Deliverables

The tasks in the approved Scope of Services (Appendix A) were intended to gather information to help meet the goals and advance the project basis of design. This report is organized to the extent possible around the NHDES guidance provided within the *Basis of Design Reports for Stormwater Infrastructure Projects (CWSRF Funded), November 2021* as requested by NHDES where those elements are consistent with the approved Scope of Work, but some stormwater/watershed evaluations may need to be supplemented as future tasks. A summary of goals and work performed under each task is as follows:

1.3.1. Task #1 – Public Participation and CSS Approach

Public participation was an important goal of the process used to develop this basis of design report. A simplified Context Sensitive Solutions (CSS) process developed originally by AASHTO and NHDOT was used help gain support of the stakeholders and develop more effective concepts. As opposed to traditional approaches the CSS process used for this study used public participation to collect information and listen to the public/stakeholders prior to presenting concepts/solutions. This task included work sessions with the Town and NHDES as well as public information meetings to solicit input from residents and stakeholders about the project. This work was performed during times of COVID-19 restrictions so sensitivity was needed for public interactions. The following meetings were held:

- Project Kickoff Meeting (September 2, 2020): Kickoff meeting with the Town to establish lines of communication and plan for project activities.
- Public Educational Mailer and Questionnaire (October 2, 2020): UE assisted the Town develop a letter and questionnaire to introduce neighborhood residents to the upcoming project, inform them of upcoming field activities, notify them of the upcoming public input meeting, and solicit resident’s early input about the project using a voluntary questionnaire. This letter was mailed to the Westside Drive neighborhood residents and posted on the Town website. A copy this mailer is provided (Appendix B).
- Public Information & Input Meeting #1 (October 28, 2020): UE helped facilitate a public meeting to introduce the project to residents and solicit public input at the start of the planning process prior to developing alternatives. The meeting was held via Zoom, included a summary of questionnaire results that had been received, and concluded with an aerial map of the neighborhood that was ‘marked-up’ realtime during the virtual meeting as residents voiced input. A copy of the presentation and annotated map is provided (Appendix C). During this meeting residents identified improvements to neighborhood drainage and improved options for basement sump pump discharge as critical needs to be incorporated into the plan.
- Internal Building Inspections (October/November 2020): UE contracted Flow Assessment Services to perform building inspection to target the buildings that were not previously performed in 2009 as part of the *Phase III I/I Study*. Some of the residents (11) did not allow inspection due to COVID 19 concerns, but provided illicit connection information via survey. A total of 88% of the residences in the neighborhood have been inspected/surveyed to date. Building inspection forms including 2009 and 2020 inspections are provided (Appendix G).
- Status Meeting with Town (March 25, 2021): UE facilitated a work session with the Town staff to review findings of the field investigations and preliminary design concepts.

- Update Meeting with Town and NHDES (June 16, 2021): UE facilitated a work session with Town staff and NHDES to review the status of the project and work completed to date.
- Work Session with Town and NHDES (September 14, 2021): UE facilitated a work session with Town staff and NHDES to review work completed to date and prepare for the next public information meeting.
- Public Information & Input Meeting #2 (September 20, 2021): UE helped facilitate a public meeting to review preliminary design concepts and solicit public input. The meeting was held via Zoom and a copy of the presentation is provided (Appendix D). During this meeting residents reinforced the need for drainage and sump pump management improvements but also expressed a desire for pedestrian safety.

1.3.2. Task #2 - Mapping and Base Plan Development

UE created a base plan for the project using a combination of field survey and existing Town GIS information to develop preliminary design concepts. The base plan was compiled in AutoCAD Civil 3D using horizontal datum NHSPC, NAD83 (2011), and vertical datum NAVD88 consistent with Town standards so the base plan could serve as a foundation to build future design. A copy of the base plan with the survey points turned on is provided (Appendix E).

1.3.3. Task #3 – Subsurface Investigation and Evaluation

R.W. Gillespie (subconsultant to UE) performed one (1) day of borings on October 13, 2020. Eight (8) borings were advanced and groundwater piezometers were installed in four (4) of the borings. Findings are summarized in RW Gillespie’s *Geotechnical Engineering Evaluation* report dated December 28, 2020 (Appendix F) and will be discussed in the existing conditions section of this report.

1.3.4. Task #4 – Basis of Design Planning Document and Conceptual Design

This task is to compile the findings and recommendations of this study into a report provided herein. See discussion in Section 1.3.6 below.

1.3.5. Task #5 – Town Sewer Asset Management Plan (AMP) Supplement

Upon completion of basis of design, UE will provide the Town with a supplement to incorporate the relevant portions of the project into the Town’s Sewer Asset Management Plan.

1.3.6. Project Deliverable Summary

The purpose and deliverable of this evaluation was to develop a preliminary design document for the Westside Drive Neighborhood that could be used as a tool for future I/I mitigation and project development. The report provided herein summarizes the findings approved Scope of Services project Tasks 1 through 5 (Appendix A):

2. Existing Conditions

2.1. Location and Project Boundaries

The Westside Drive neighborhood is located on the west side of Exeter and is accessed from NH Route 111 (Front St./Kingston Rd.). The neighborhood was constructed in the mid to late 1970s and consists of approximately 90 single family homes built on private 0.2 to 0.5 acre lots. The neighborhood consists of approximately 30 acres and is bounded to the northwest by Front St., the southwest by the Little River, the southeast by the Boston and Maine Railroad, and to the northeast by a wooded strip comprising the back lots of adjacent neighborhoods around Charter and Carrol Streets. Westside Drive is a loop road with one access point to Front St. and the neighborhood also includes interior crossroads (Blanche, Tilton, Scammon, Silvio, Laperle) to access interior lots (Figure 1).

2.2. Maps and Water Bodies

The Westside Drive neighborhood is located along the Little River which is part of the Great Bay watershed. Runoff from the neighborhood (discussed in more detail under drainage system section) flows to the Little River which combines with the Exeter River approximately 0.7 miles southeast of the neighborhood. Approximately 0.5 miles downstream of the confluence with the Little River, the Exeter River goes over the head of tide falls in downtown Exeter and becomes the tidal Squamscott River (Figure 1).

2.3. Subsurface Conditions

The subsurface boring investigation found that the soils in the neighborhood consist of varying amounts of silty sand fill on top of native silty/clayey soils. Groundwater levels were close to the ground surface throughout the neighborhood and above the ground surface (flowing out of the piezometer) in east/northeast portions of the neighborhood. Road base materials (i.e. gravel below the pavement) were found to be 0.5' to 3' thick consisting of silty sand. Grainsize analysis showed that the road base materials did not meet NHDOT Standards due to the high fines content. The native materials found below the road base consisted of silt/clay with varying amounts of sand. An approximate 2' thick layer of organic peaty material was observed below the road base at MW-1 and B-4 approximately 3'-5' below the ground surface. A thinner peaty layer was also observed at B-2. Boring logs and geotechnical report are provided (Appendix F).

2.4. Existing Infrastructure

The existing infrastructure in the neighborhood includes municipal sewer, water, roads and drainage and private gas, electric and cable. A schematic of existing utilities is provided (Figure 2A).

2.4.1. Sewer System

The neighborhood is served by approximately 5,500 feet of 8” PVC gravity municipal sewer mains that convey wastewater to a pumping station located near intersection of Westside Drive and Court St. Select portions of the sewer mains (approximately 1,100’) were CCTV inspected during the Town’s *Phase III I/I Study* and the sewers were found to be in good condition. Twenty (20) sump pumps (36% of sump pumps in the neighborhood) were found to be illicitly connected to the sewer during building inspections/surveys (Figure 2B). The primary focus of sewer system improvements includes providing a viable location for residents to redirect their basement sump pumps away from the sanitary sewer.



2.4.2. Road Surface Condition

The existing roads (~5,500 feet) are constructed of bituminous asphalt paving approximately 40’-50’ wide with non-functioning, deteriorated sidewalks and bituminous curb. UE evaluated the roadway surface conditions of the neighborhood roads in accordance with Road Surface Management System (RSMS) standards in March 2021. Condition assessment forms are



provided (Appendix H). RSMS condition ratings ranged from 40 to 60 meaning the roads have deteriorated to a condition beyond maintenance overlays and reconstruction is recommended (Figure 2C). The road profile and crown has regressed so that they do not effectively convey/drain stormwater in many areas. The areas with the poorest RSMS condition ratings were in the northeast portion of the site and corresponded with areas of high groundwater and peaty materials and areas with most severe drainage issues identified during public input.

2.4.3. Drainage System

The existing drainage includes five (5) outfalls that discharge the Little River directly (3) or to a wooded wet area on the east side of the neighborhood (2). Surface runoff generally flows radially away from the center of the neighborhood to each existing drainage outfall. The Little River flows south along the west side to the neighborhood toward the Exeter River and receives stormwater from the west and north portions of the neighborhood. The wooded wet area on the east side of the neighborhood that receives stormwater from the central/east portion of the neighborhood flows south to a stone culvert railroad crossing and ultimately discharges to the Little River at a location upstream of the neighborhood (Figure 1A).

There are few catch basins to effectively collect stormwater given the wide roadway impervious area (40'-50' wide) in the neighborhood compared to other neighborhood streets in Town and has limited/no outfall stormwater treatment. Improvements to the stormwater system and providing a location for residents to discharge their sump pumps was the highest priority identified during public input meetings #1 and #2. UE visually evaluated the condition of the existing neighborhood drainage infrastructure and inspection reports and photographs are provided (Appendix I). Description of the drainage components are grouped below by each outfall.

Outfall #1: The drainage system that conveys stormwater to this outfall includes one (1) precast concrete catch basin and drain manhole that collects stormwater from the northwest portion of the neighborhood and outfalls to the Little River. The structures appeared to be serviceable condition, but the outfall pipe was observed hanging over the stream embankment. The outfall pipe also appeared to have a reverse slope and did not appear to be functioning properly (photo right). During public participation, residents identified drainage issues in this catchment indicating that improvements are needed to effectively collect and convey stormwater in this area.



Outfall #2: The drainage system that conveys stormwater to this outfall includes one (1) block drop inlet that collects stormwater from the southwest portion of the neighborhood and outfalls overland to the Little River. The catch basin structure was in poor condition with limited cover over the CMP outlet pipe and erosion was observed downstream of the outfall due to insufficient scour protection (photo right). During public participation, residents identified drainage issues in this catchment indicating that improvements are needed to effectively collect and convey stormwater in this area.



Outfall #3: The drainage system that conveys stormwater to this outfall includes one (1) block drop inlet that collects stormwater from the southeast portion of the neighborhood and outfalls to a wet area along the east side of the site. The catch basin structure was in poor condition with limited cover over the outlet pipe (Appendix I). During public participation, residents identified drainage issues in this catchment indicating that improvements are needed to effectively collect and convey stormwater in this area.

Outfall #4: The drainage system that conveys stormwater to this outfall includes one (1) block drop inlet (photo right) that collects stormwater from the east-central portion of the neighborhood and outfalls to a wet area along the east side of the site. The catch basin structure was in poor condition with limited cover over the outlet pipe and surcharged outlet conditions (Appendix I). During public participation, residents identified drainage issues in this catchment indicating that improvements are needed to effectively collect and convey stormwater in this area.



Outfall #5: The drainage system that conveys stormwater to this outfall was the largest in extent, appeared to be in the best condition, and appeared to be the only potentially salvageable site drainage infrastructure. It generally consists of 4' precast concrete diameter and brick catch basins with 12" PVC, HDPE, RCP, and CMP pipes in serviceable condition, but pipe conditions should be confirmed with CCTV and may be undersized. Outfall #5 is 15" HDPE that is hanging over the Little River embankment with limited outlet protection (photo right).



2.4.4. Water System

The neighborhood is serviced by Town municipal water that is understood to be composed of approximately 5,500 feet of 8" AC pipe. The Town's *Public Water System Asset Management Plan* by Tata & Howard, May 2015 (Water Asset Management Plan) identified the Westside Drive Neighborhood as an area with potentially corrosive soils and that "the structural integrity of AC water mains can deteriorate over time, thereby becoming sensitive to pressure fluctuations or nearby construction activities. In addition, external influences such as soil type and high groundwater can corrode AC mains, thus reducing the strength further" (excerpts Appendix J). Since issuance of that plan, the Town has reported that water breaks have been increasingly problematic in the neighborhood which may be due to corrosivity of the soils and high groundwater conditions observed during this study. Future infrastructure construction activities in the Westside Drive Neighborhood may exacerbate existing reported water break issues.

2.4.5. Private Utilities (electric, cable, gas)

The Neighborhood is serviced by overhead electric/cable and underground gas. Representatives from those utilities said that they were not aware of any major planned utility upgrades in the Neighborhood. However, it is likely that select private utility relocation/replacement may be necessary during major municipal infrastructure work in the Neighborhood.

2.5. Ownership

The neighborhood is served by Town-owned public streets and utilities (water, sewer, and drainage), private utilizes (gas, electric, and cable), with privately-owned single-family lots/homes. Property boundaries shown on the UE's figures and appendices is based on Geographical Information System (GIS) and other information provided by the Town. Boundary survey and roadway Right-of-Way (ROW) determinations were outside the scope of this work, but the following is our understanding of some of the property ownership constraints that may impact future infrastructure improvements and warrant future investigation:

Roadways: It is understood that the existing roadway ROW is 50' wide. However, the limit of pavement approaches 50' wide in some areas so future roadway construction activities may impact areas outside the existing ROW. Furthermore, the reference for the assumed ROW limits (from the centerline, etc.) should be considered/defined relative to possible changes future pavement edge/limits and utility relocations. Therefore, a ROW determination and survey is recommended to be included as part of future phases of the work and temporary construction easements may be necessary.

Drainage Outfalls: It is understood that the Town does not have specific drainage easements for drainage infrastructure that extends outside the roadway ROW limits. This is of particular importance for the drainage outfall pipes and aprons that extend radially from the neighborhood streets. Although we understand that the Town may have a prescriptive easement along existing pipe alignments, most of the existing drainage was identified as poorly functioning and likely in need of replacement and may not be ideally located. It is recommended that the Town obtain drainage easements as part of future phases of work and include consideration for drainage relocation and expanded outlet protection and/or treatment (if feasible and appropriate).

2.6. Environmental Assessment and Little River Flood Stage

The 100-year flood stage of the Little River was reviewed to evaluate its impact to the functionality drainage infrastructure. The Westside Drive Neighborhood abuts a section of the Little River that was included in a 2018 FEMA FIRM Map Revision associated with removal of the Great Dam in Downtown Exeter and includes revised stage/flow information of varying recurrence frequency (Appendix K & L). The NGVD elevations reported in the FEMA document were corrected on the provided drainage profiles (discussed later) by 0.76' to account for the lower NAVD88 datum used by the Town. Environmental review reports, pollutant loading calculations, and comparison of stormwater treatment alternatives were outside the scope of this evaluation and should be included in future phases of the work as appropriate. It is anticipated that additional basis of design evaluations required to satisfy the requirements of future NHDES stormwater funding will be completed near the beginning of the next phases of the work and the 30% design.

3. Summary of Findings and Identified Project Needs

3.1. Summary of Findings

The evaluations performed during this study and described in Sections 1 and 2 identified the following limitations and infrastructure deficiencies/improvements that should be considered in planned capital improvements plan for the Westside Drive Neighborhood:

1. **Neighborhood-wide drainage improvements** - Public participation (Section 1.3.1) identified an increased need for overall neighborhood drainage improvements than what was previously understood and reinforced the need for infrastructure improvements to help residents manage their sump pump discharges. Stormwater treatment is proposed to be achieved through reduced impervious area and in-line treatment (deep sumps and hoods). Additional end-of-pipe treatment may be technically feasible at Outfall #2 but would require easements.
2. **Closed drainage system extensions for sump pump management** - High groundwater conditions identified during this study (Section 2.3) prevents effective use roadside swales to help manage sump pump discharges. The roadside swale alternative was previously recommended in the *CSO LTCP Update (2017)* as the lowest cost option but is no longer considered a viable alternative based on the findings of this study. Similarly, the sump pump force main system alternative (Appendix M) is not considered viable because it would present logistical implementation challenges and would not address other neighborhood drainage needs. Therefore, closed drainage extension with sump pump service connections was found to be best feasible alternative to manage sump pump discharges because it would also help provide a framework for other needed drainage improvements.
3. **Road reconstruction** - The road surface condition assessment (Section 2.4.2) indicated that the roads have deteriorated to the point where they need reconstruction so trench repairs should not be considered for infrastructure improvements. Road reconstruction would provide opportunity to re-establish the road profile/crown necessary to improve drainage and allow for mitigating the impact of peat underlying the road in the northeast corner of the neighborhood. The road base materials do not meet NHDOT specifications, but the geotechnical report (Appendix F) recommended that it may be possible to amend reclaim with added stone to improve road performance/durability. Reduction of the impervious road width would have additional environmental benefits of non-point source mitigation.
4. **Water main replacement** – Replacement of the water main is recommended to be included in the project. The combination of corrosive soils, high groundwater, increasing frequency of water main breaks, risk of construction activities causing additional damage, roadway reconstruction to mitigate restoration costs, and economy of scale indicate that

including water main replacement as part of the capital improvements for the neighborhood is consistent with wise long-term utility planning. Due to corrosive soils either HDPE or poly-wrapped DI pipe is recommended.

3.2. Roadway Restoration Alternatives

Two roadway restoration alternatives were considered based on the feedback from the Public Information Meeting #1 to encourage traffic calming along the Westside Drive perimeter road and incorporate the Town's desire to reduce non-point nutrient stormwater sources to the Great Bay Estuary. Schematics of these alternatives are provided (Figures 3A and 3B) and include the following:

- **Alternative #1 – Reduced Roadway Width and Perimeter Sidewalks**
 - Approximately 3,800' of perimeter sidewalks and new curb. The paved roadway travel way would be reduced to 24' in these areas.
 - Interior roads without sidewalk (approx. 1,700') paved roadway width would be reduced to 28' and are wider than areas with sidewalks to help facilitate pedestrian safety.
 - Engineer's Opinion of Probable Cost (2024) = \$6,300,000 (cost includes other utilities discussed later)
- **Alternative #2 – Reduced Roadway Width with Select Sidewalk Improvements**
 - Approximately 600' of sidewalk would be replaced at the northwest corner of the neighborhood where sight distance for traffic is limited.
 - All roads (approx. 5,500') paved roadway width would be reduced to 28' wide. This proposed width includes an additional 4'-6' beyond typical 11'-12' travel lanes to accommodate neighborhood pedestrian safety needs identified during public input.
 - Engineer's Opinion of Probable Cost (2024) = \$6,000,000 (cost includes other utilities discussed later)

These alternatives were presented at the Public Information Meeting #2 for feedback from the public. There was mixed feedback about the proposed road width change and how it would affect the use of the roadways for children playing and existing on-street parking, but consensus that additional front yard green space would be appreciated and that provisions for pedestrians should be included. UE has also observed that the many residents walk the neighborhood during our site visits and recommend that perimeter sidewalks (Alternative #1) be incorporated into the project if budgets allow. Pedestrian safety is considered in both alternatives, but the addition of a perimeter sidewalk would improve the overall project functionality and help mitigate resident's concerns about pedestrian safety.

4. Recommended Basis of Design

UE's recommended basis of design incorporates the consensus of the Neighborhood Meeting (Sidewalks – Alternate #1 and improved drainage) while meeting the goals of I/I reduction, stormwater treatment, and complete asset renewal. The basis of design includes the following:

4.1. Roadway Improvements

Recommended roadway improvements include:

- Roadway reclamation incorporating supplemental stone (28' wide). Travel way reduced by approximately 15 to 25 feet.
- Strip existing pavement/sidewalks along roadway edges and restore with loam and seed (~22' total including both sides).
- 4" bituminous pavement (24' wide) on streets with sidewalk.
- 3,800' of curb and concrete sidewalk (5' wide).
- 4" bituminous pavement (28' wide to accommodate pedestrians) on interior streets without proposed new sidewalk.
- Regrade/re-establish road profile and crown to improve drainage.
- Mitigate the impact of poor subgrade materials by removal or with other technologies (such as geotextile) and approach should be refined during final design.

4.2. Municipal Water Improvements

Recommended municipal water improvements include:

- Install approximately 5,500' of new 8" watermain. The new main should be wrapped with polyethylene or be composed of non-corrosive materials to mitigate the corrosive soils reported to exist in the neighborhood.
- Replace approximately 90 water services to the ROW.
- Install approximately 8 hydrant assemblies.
- Provide temporary water during construction to mitigate the risk of water breaks and facilitate water main replacement.

4.3. Drainage Improvements

Recommended conceptual drainage improvements are shown (Figures 4A & 4B) and include:

- Install approximately 1,800' of roadway perimeter underdrain in the northeast corner of the neighborhood where high groundwater (above the road surface) was observed.
- Perform stormwater hydraulic modeling to confirm drain sizing. The following was assumed for the Engineer's Opinion of Probable Cost (Appendix N):
 - Approximately 1,700' of 12" HDPE drain. Consider using perforated drainpipe to help mitigate high groundwater conditions.
 - Approximately 1,000' of 15" to 24" HDPE drain. Consider using perforated drainpipe to help mitigate high groundwater conditions.

- Approximately 35 new drain structures to collect stormwater more effectively in areas where drainage issues were identified. Structures to incorporate 4' deep sumps where feasible and consider incorporating other in-basin technologies (such as separators) to help capture pollutants prior to discharge.
- Replace two (2) drainage outfalls on the west side of the neighborhood (Outfalls #1 & #2) and improve outlet protection. Consider incorporating end-of-pipe stormwater treatment at Outfall #2 since site conditions at this location may allow the addition of treatment (such as rain gardens). Conceptual drainage profiles have been provided to evaluate the feasibility of avoiding utility conflicts and showing the 100-year flood elevation at these sites (Figures PRO#1 and PRO#2).
- Replace one (1) drainage outfall on the east side of the neighborhood (Outfall #3), eliminate the poorly functioning Outfall #4, and direct drainage to the reconstructed Outfall #3. Conceptual drainage profiles have been provided to evaluate the feasibility of avoiding utility conflicts at these sites (Figures PRO#3 and PRO#4).
- Re-use the existing drainage infrastructure that conveys stormwater to Outfall #5, but confirm the suitability of reuse with CCTV inspection and hydraulic stormwater modeling during final design.

4.4. Private I/I Mitigation

Recommended private I/I mitigation improvements include:

- Install approximately 1,400' of 8" PVC/HDPE sump collectors on interior roads connected to the drainage system with a drop inlet at each end.
- Provide sump pump drain service connections to drain lines at the edge of ROW for interior properties (50 assumed).
- Homeowner would be responsible to connect sump pump discharge to the drain service provided by the Town.
- It is assumed and topography allows most properties around the perimeter of the neighborhood to discharge sump pumps towards the back of their lots.

4.5. Sewer Improvements

Inspected sewers were in good condition and no sewer improvements are recommended except where utility conflicts are encountered. However, it is recommended that all sewers be CCTV'd in a future phase to locate laterals for utility planning and the condition of the sewer mains should be also confirmed at that time.

4.6. Engineer’s Opinion of Probable Cost

The \$6,200,000 Engineer’s Opinion of Probable Project Construction Cost for this alternative is provided for anticipated 2024 construction. We have also provided an opinion for roadway improvement Alternative #2 for comparison (Appendix N). For planning purposes, the cost of the work for each utility is approximately:

• Roadway with Sidewalk	\$2,200,000 (roadway also required for drainage imp.)
• I/I and Stormwater	\$1,500,000
• Water	<u>\$2,600,000</u>
TOTAL	<u>\$6,300,000</u>

The eligibility determination may differ from the breakdown provided above and should be refined with final design. Also note that the opinion of costs is higher than those that were previously provided to account for inflation observed in recent bids and also include a 3.5% annual escalation factor to help the Town budget for anticipated 2024 construction.

4.7. Anticipated Permitting

The following permits are anticipated for the work pending the findings of future wetlands delineation:

- NHDES wetlands permitting for outfall improvements
- NHDES shoreland permit
- NHDES alteration of terrain permit by rule (pending final construction scope)
- NPDES construction general permit



5. Recommended Next Steps

The following is recommended to advance the project toward final design and implementation:

- Present the findings and recommendations of this report in a public forum to satisfy the NHDES funding requirements and close the current CWSRF Loan.

- Pursue NHDES ARPA, CWSRF, and DWSRF funding opportunities for next phases of the work. The Town was selected for 2021 ARPA stormwater funding for phase 2 of this project and CWSRF may also offer principal forgiveness for eligible portions of the project cost. The following tasks are anticipated to take advantage of these funding opportunities:
 - Funding applications and environmental report
 - Update this basis of design report to incorporate NHDES Watershed Management Bureau requirements including:
 - Site characteristics (receiving water use, hydrologic soil group, impervious cover, land use, pre and post-construction pollutant loading estimates)
 - Receiving water flow and water quality data
 - Water quality improvements alternatives
 - Project schedule
 - Cost summary of selected alternative
 - Long-term operation and maintenance
 - Estimated pollutant load reductions

Advance final design including the following:

- Consider performing a roadway ROW determination to better define the extents and location of the existing ROW during final design.

- Confirm existing drainage easements and obtain easements for required drainage work outside the existing ROW. Include provisions for improved outlet protection and stormwater treatment and possible drain relocation during final design.

- Perform hydraulic stormwater modeling to confirm required stormwater improvements capacity/sizing during final design.

- Perform CCTV of sewers to confirm service locations and sewer main condition.

- Perform wetland delineations where wetland impacts are anticipated.

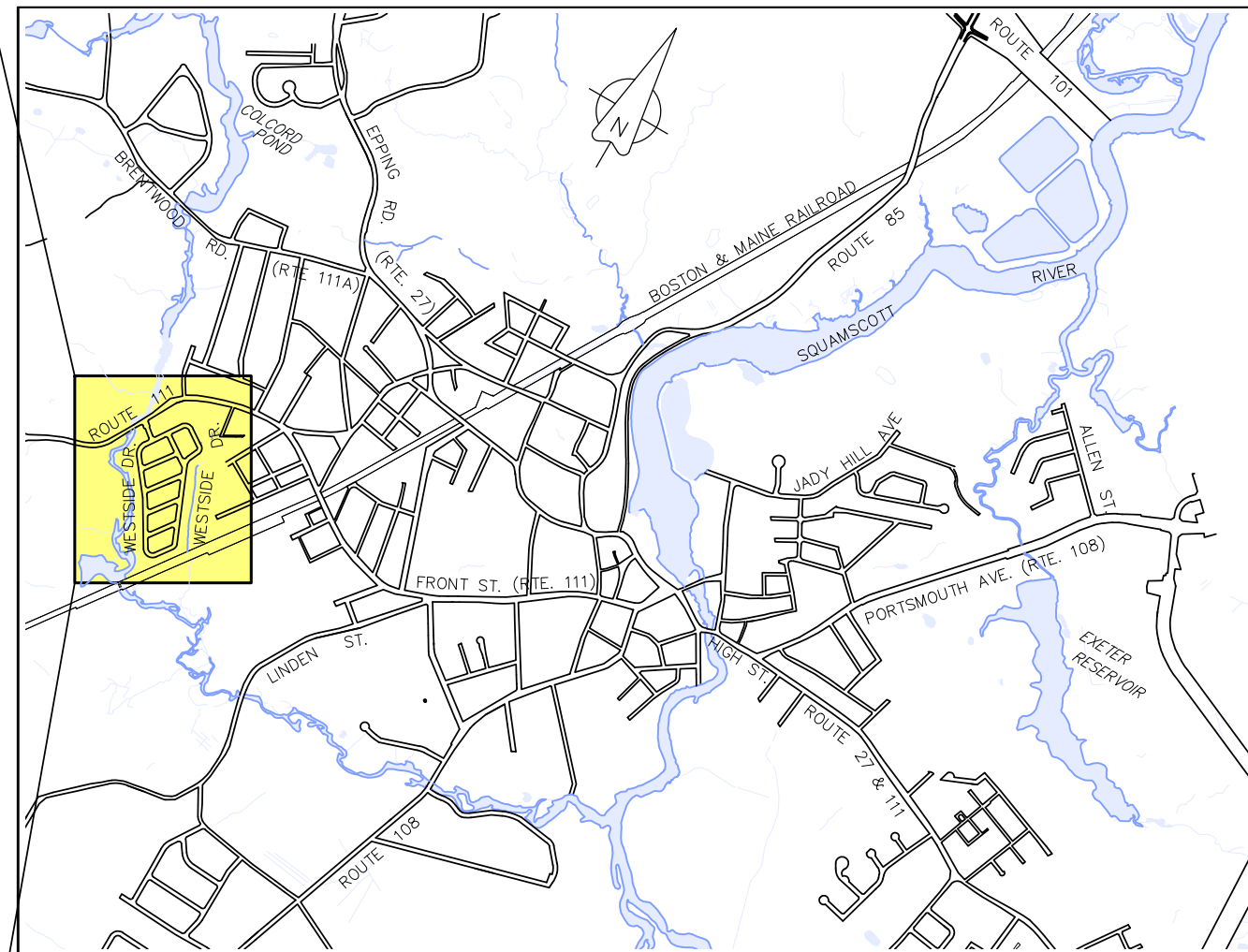
- Obtain necessary permits (Section 4.7) during final design.

- Perform a work session in the field and invite residents to review conceptual roadway layout prior to completing final design.

Figures



LOCATION PLAN
SCALE: 1"=200'



VICINITY MAP
SCALE: 1"=2000'

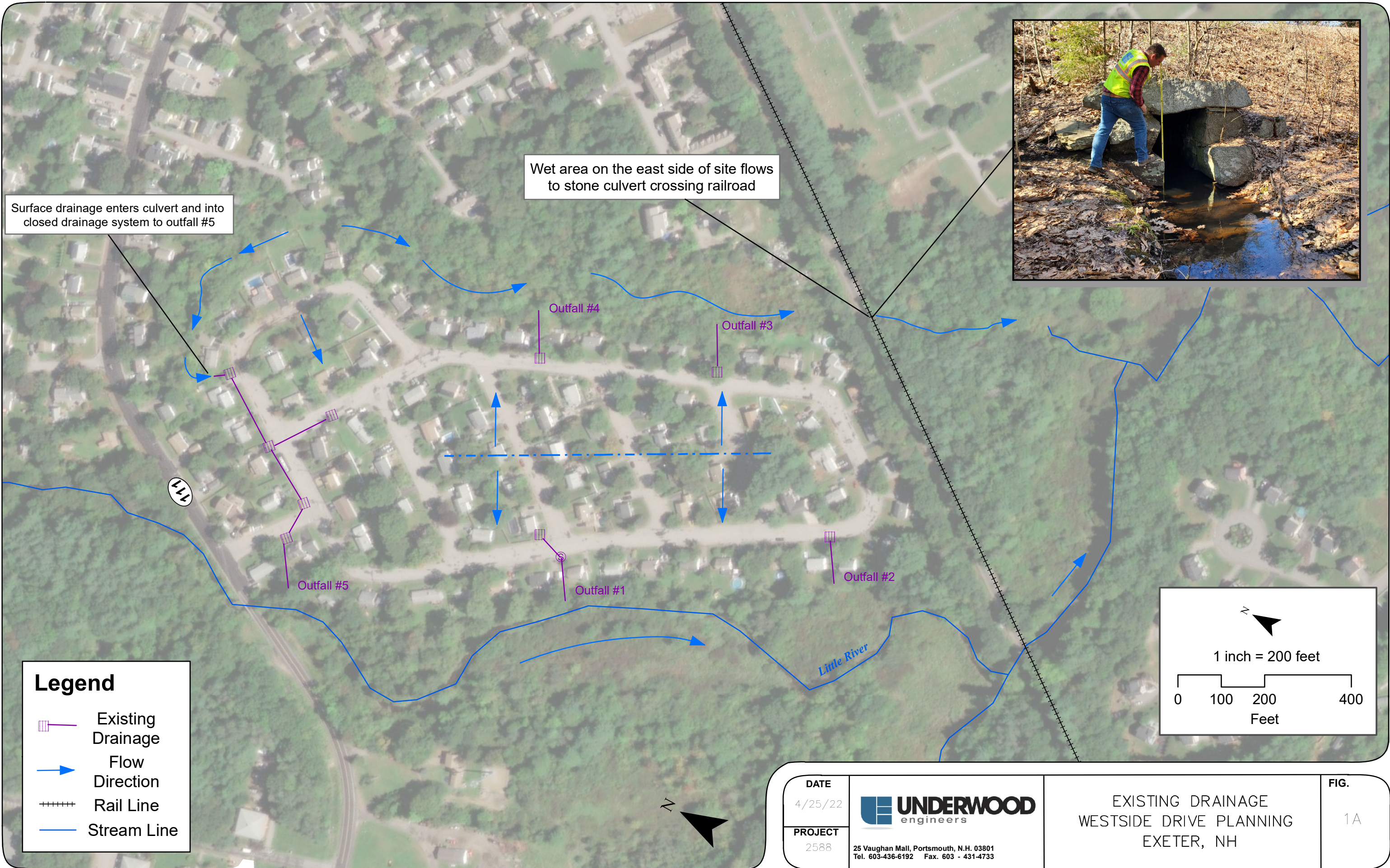
DATE
9/2021
PROJECT
2558



25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

VICINITY & LOCATION MAP
WESTSIDE DRIVE PLANNING
EXETER, NEW HAMPSHIRE

FIG.
1



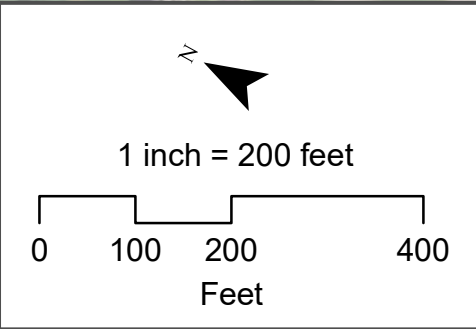
Wet area on the east side of site flows to stone culvert crossing railroad

Surface drainage enters culvert and into closed drainage system to outfall #5



Legend

- Existing Drainage
- Flow Direction
- Rail Line
- Stream Line



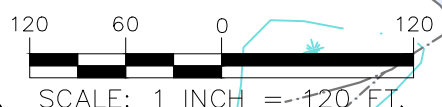
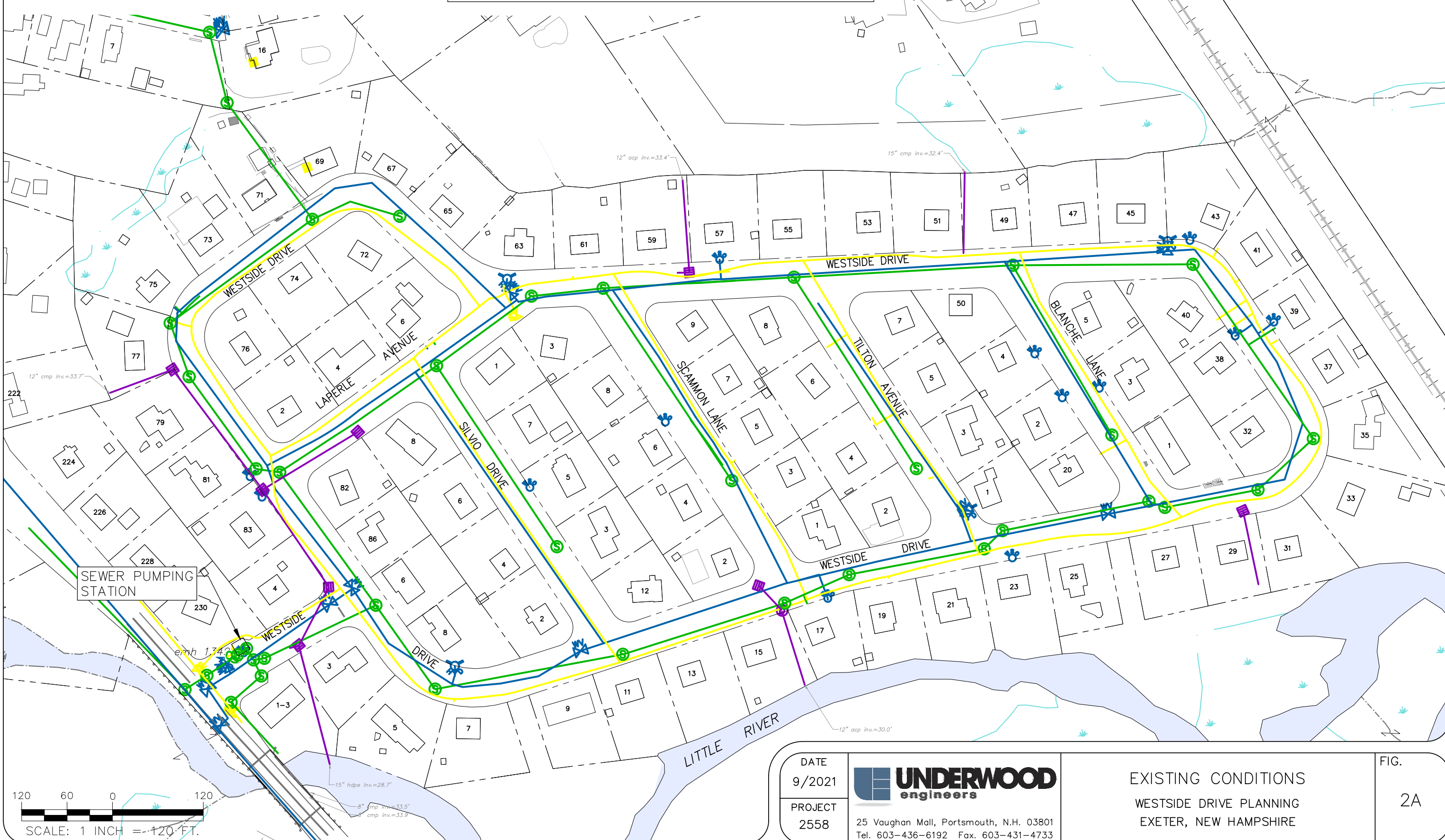
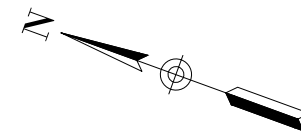
<p>DATE 4/25/22</p>		<p>EXISTING DRAINAGE WESTSIDE DRIVE PLANNING EXETER, NH</p>	<p>FIG. 1A</p>
<p>PROJECT 2588</p>	<p>25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603 - 431-4733</p>		

LEGEND:

- EXISTING WATER
- EXISTING SEWER
- EXISTING GAS
- EXISTING DRAIN

NOTE:

THE LOCATION OF UTILITIES ARE APPROXIMATE BASED ON GIS AND DIGSAFE MARKS OBSERVED IN THE FIELD. ACTUAL UTILITY LOCATIONS MAY VARY FROM WHAT IS SHOWN AND MUST BE CONFIRMED DURING DESIGN.

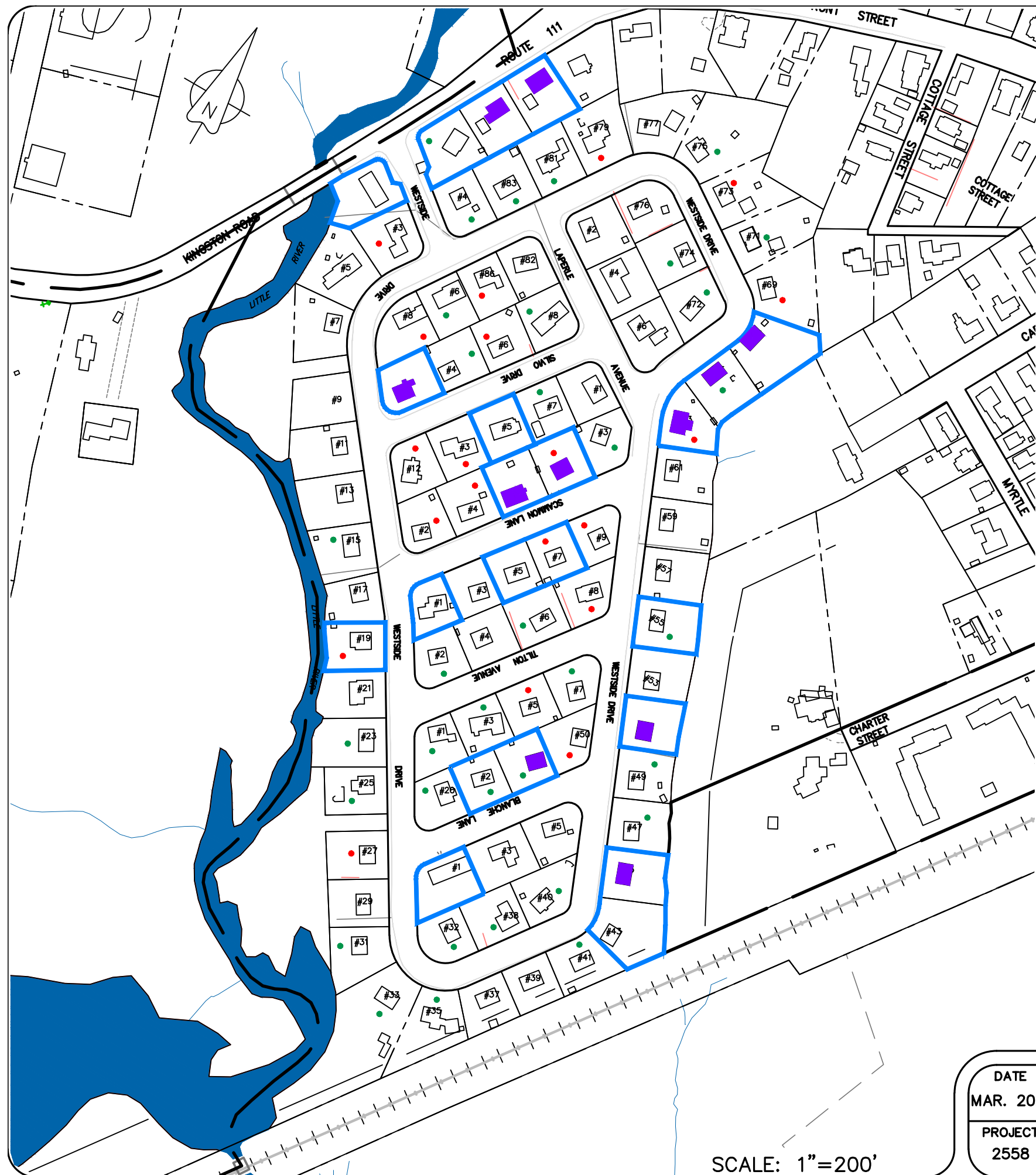


DATE 9/2021	 UNDERWOOD engineers	25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733
PROJECT 2558		

EXISTING CONDITIONS
WESTSIDE DRIVE PLANNING
EXETER, NEW HAMPSHIRE

FIG.
2A

C:\Users\rmg\Desktop\working files\Real Numbers\Exeter\2558 - Westside Drive Conceptual Plan Development\Drawings\2558_Base_Figures.dwg, Fig 2, 9/14/2021 9:06:31 AM, rmg

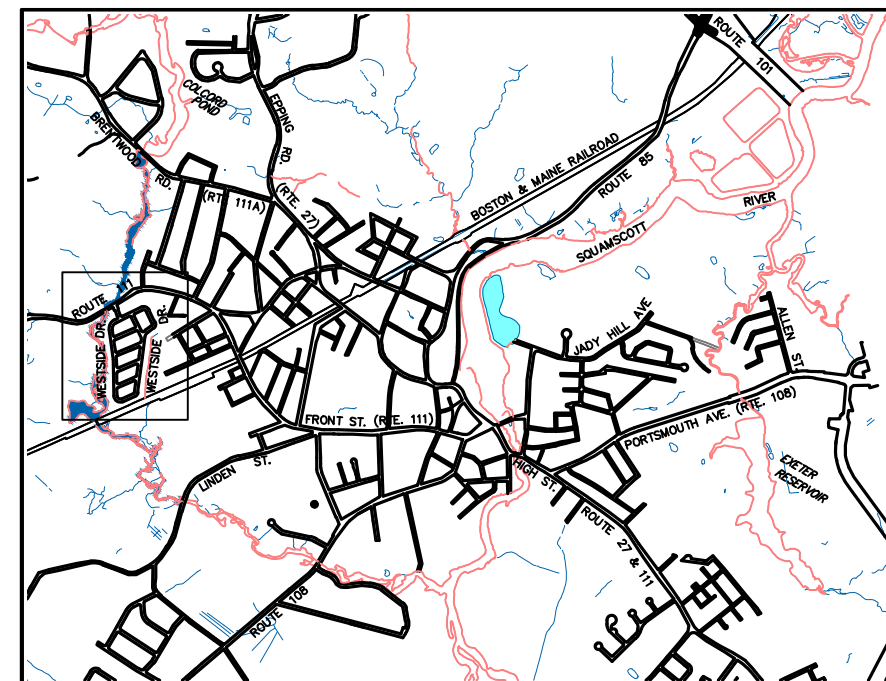


LEGEND:

- HOUSES NOT INSPECTED DUE TO REFUSAL
- HOUSES INSPECTED FALL 2020 (22 TOTAL)
- SUMP PUMP DISCHARGE SEWER OR UNKNOWN*
- SUMP PUMP DISCHARGE SURFACE*

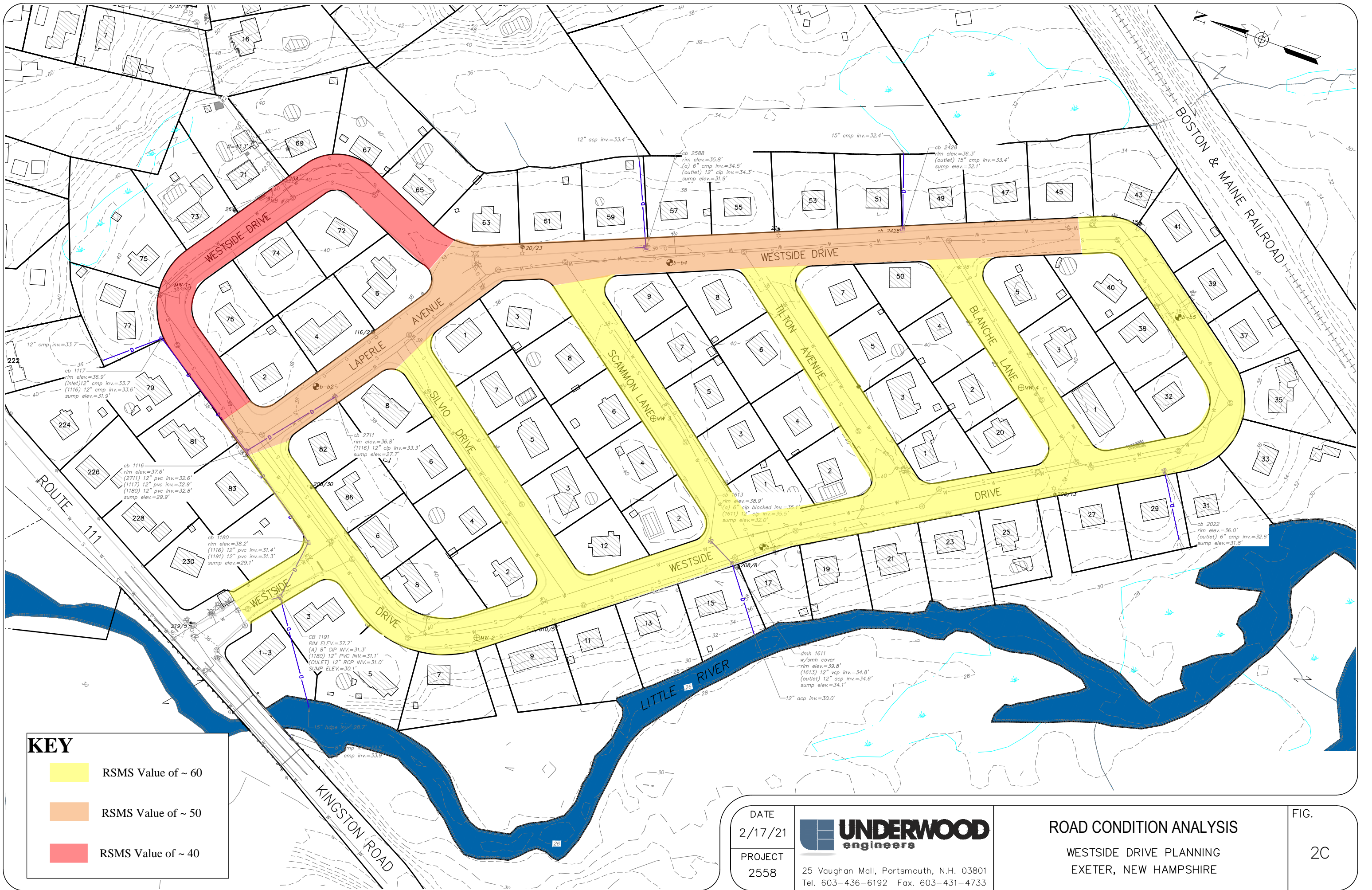
NOTE:
 1. INFORMATION SHOWN WHERE INTERNAL INSPECTION NOT PERFORMED WAS BASED ON HOMEOWNER SURVEY.

KEY PLAN



SCALE: 1"=200'

DATE MAR. 2021	 UNDERWOOD engineers	HOUSE INSPECTION RESULTS WESTSIDE DRIVE PLANNING EXETER, NEW HAMPSHIRE	FIG. 2B
PROJECT 2558	25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733		



KEY	
	RSMS Value of ~ 60
	RSMS Value of ~ 50
	RSMS Value of ~ 40

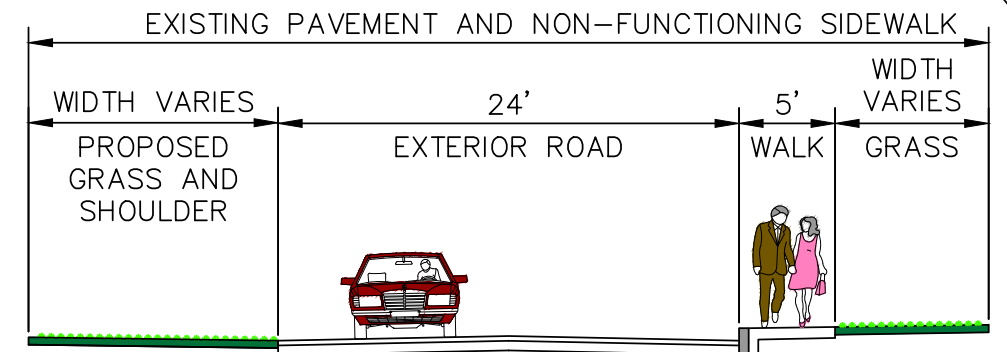
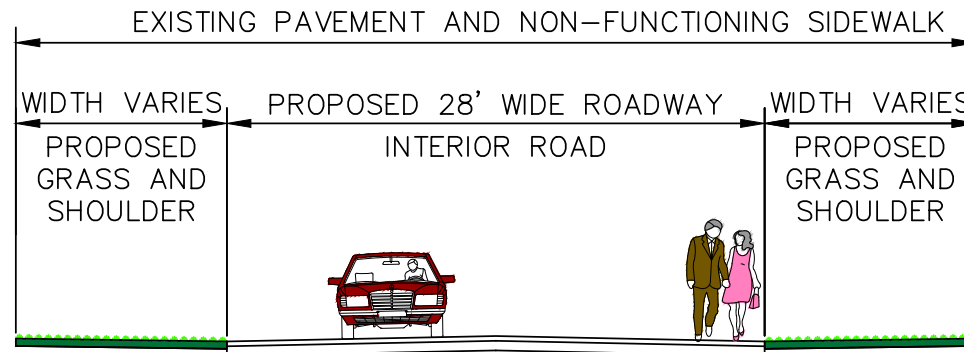
DATE 2/17/21	 UNDERWOOD engineers
PROJECT 2558	
25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733	

ROAD CONDITION ANALYSIS
 WESTSIDE DRIVE PLANNING
 EXETER, NEW HAMPSHIRE

FIG.
2C

LEGEND:

- PROPOSED GRASS/GRAVEL SHOULDER
- PROPOSED SIDEWALK
- PROPOSED PAVEMENT/TRAVEL WAY



INTERIOR ROAD SECTION

SCALE: 1"=10'

EXTERIOR ROAD SECTION

SCALE: 1"=10'



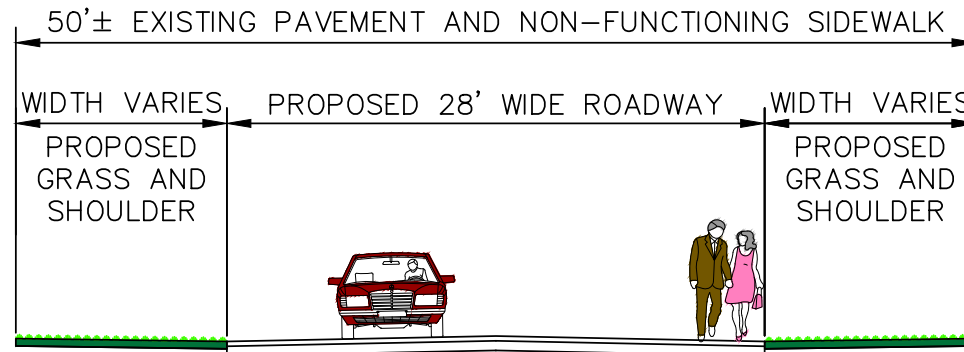
DATE	5/2022	<p>UNDERWOOD engineers</p>
PROJECT	2588	
25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733		

CONCEPTUAL ROADWAY PLAN #1
(PERIMETER SIDEWALK)
WESTSIDE DRIVE PLANNING
EXETER, NEW HAMPSHIRE

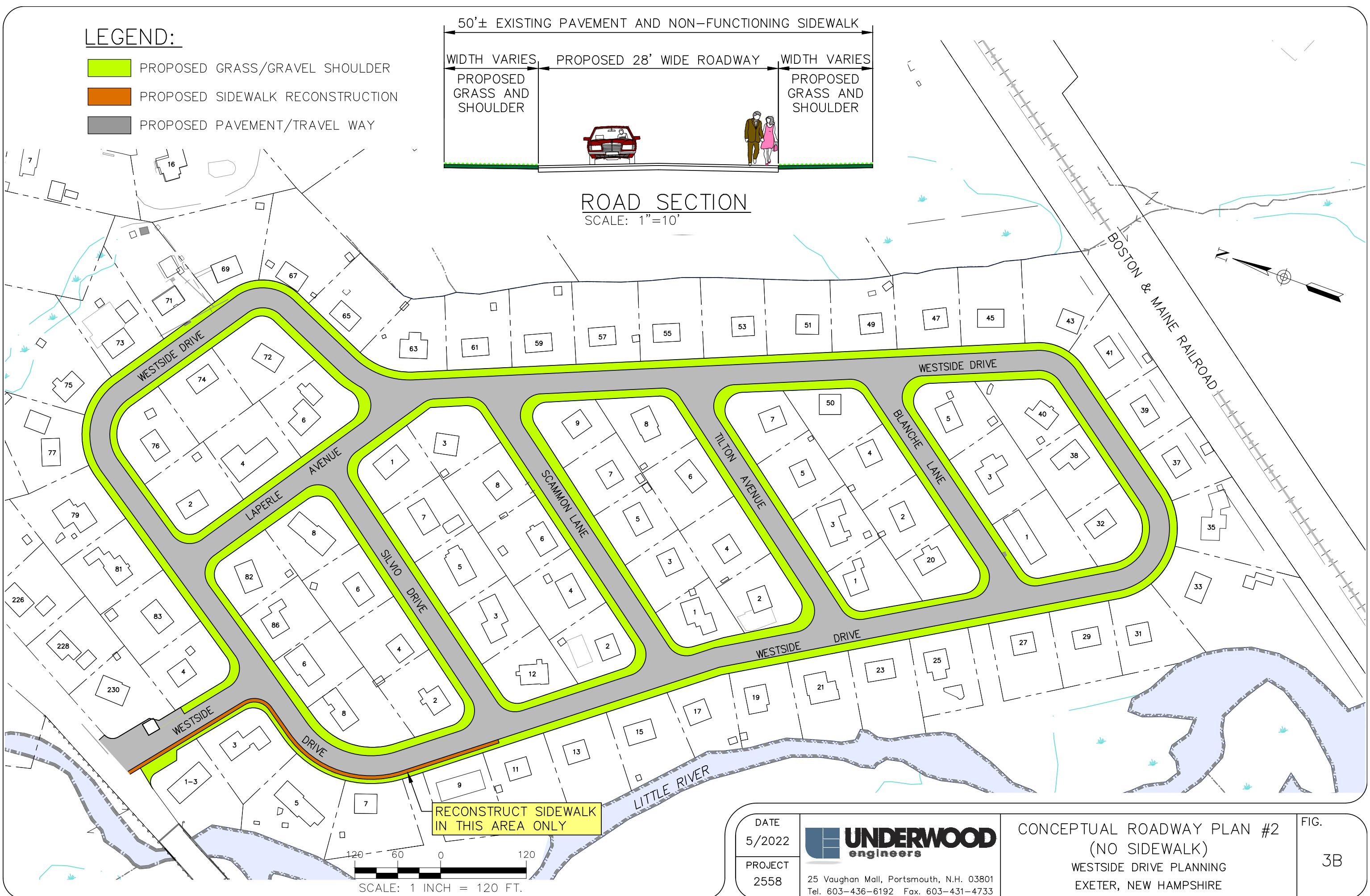
FIG.
3A

LEGEND:

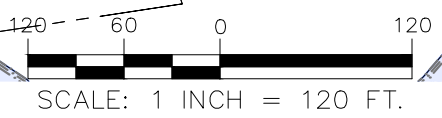
- PROPOSED GRASS/GRAVEL SHOULDER
- PROPOSED SIDEWALK RECONSTRUCTION
- PROPOSED PAVEMENT/TRAVEL WAY



ROAD SECTION
SCALE: 1"=10'



RECONSTRUCT SIDEWALK
IN THIS AREA ONLY



DATE	5/2022
PROJECT	2558
	
25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733	

CONCEPTUAL ROADWAY PLAN #2
(NO SIDEWALK)
WESTSIDE DRIVE PLANNING
EXETER, NEW HAMPSHIRE

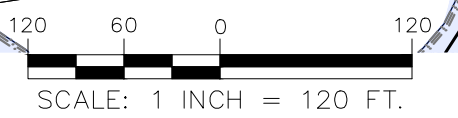
FIG.
3B

LEGEND:

- PROPOSED UNDERDRAIN
- PROPOSED DRAIN
- PROPOSED SUMP PUMP COLLECTOR
- PROPOSED DRAIN STRUCTURE
- EXISTING DRAIN TO REMAIN IN USE
- EXISTING DRAIN TO BE REPLACED

NOTES:

1. PROPOSED DRAINS ARE CONCEPTUAL. LOCATIONS, SIZES, AND ALIGNMENTS MUST BE REFINED DURING FINAL DESIGN.
2. SEE CONCEPTUAL DRAINAGE PROFILES FOR ADDITIONAL INFORMATION.



DATE	9/2021	UNDERWOOD engineers	CONCEPTUAL DRAINAGE IMPROVEMENTS PLAN WESTSIDE DRIVE PLANNING EXETER, NEW HAMPSHIRE
PROJECT	2588		

FIG.
4A

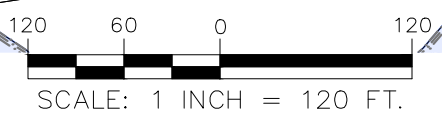
C:\Users\rmg\Desktop\desktop working files\Real Numbers\Exeter\2588 - Westside Drive Conceptual Plan Development\Drawings\2588_Base_Figures.dwg, Fig 4A, 9/13/2021 10:31:25 AM, rmg

LEGEND:

- PROPOSED UNDERDRAIN
- PROPOSED DRAIN
- PROPOSED SUMP PUMP COLLECTOR
- PROPOSED DRAIN STRUCTURE
- EXISTING DRAIN TO REMAIN IN USE
- EXISTING DRAIN TO BE REPLACED

NOTES:

1. PROPOSED DRAINS ARE CONCEPTUAL. LOCATIONS, SIZES, AND ALIGNMENTS MUST BE REFINED DURING FINAL DESIGN.
2. SEE CONCEPTUAL DRAINAGE PROFILES FOR ADDITIONAL INFORMATION.

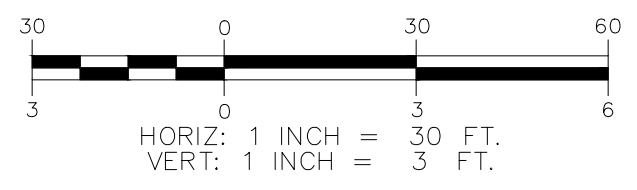
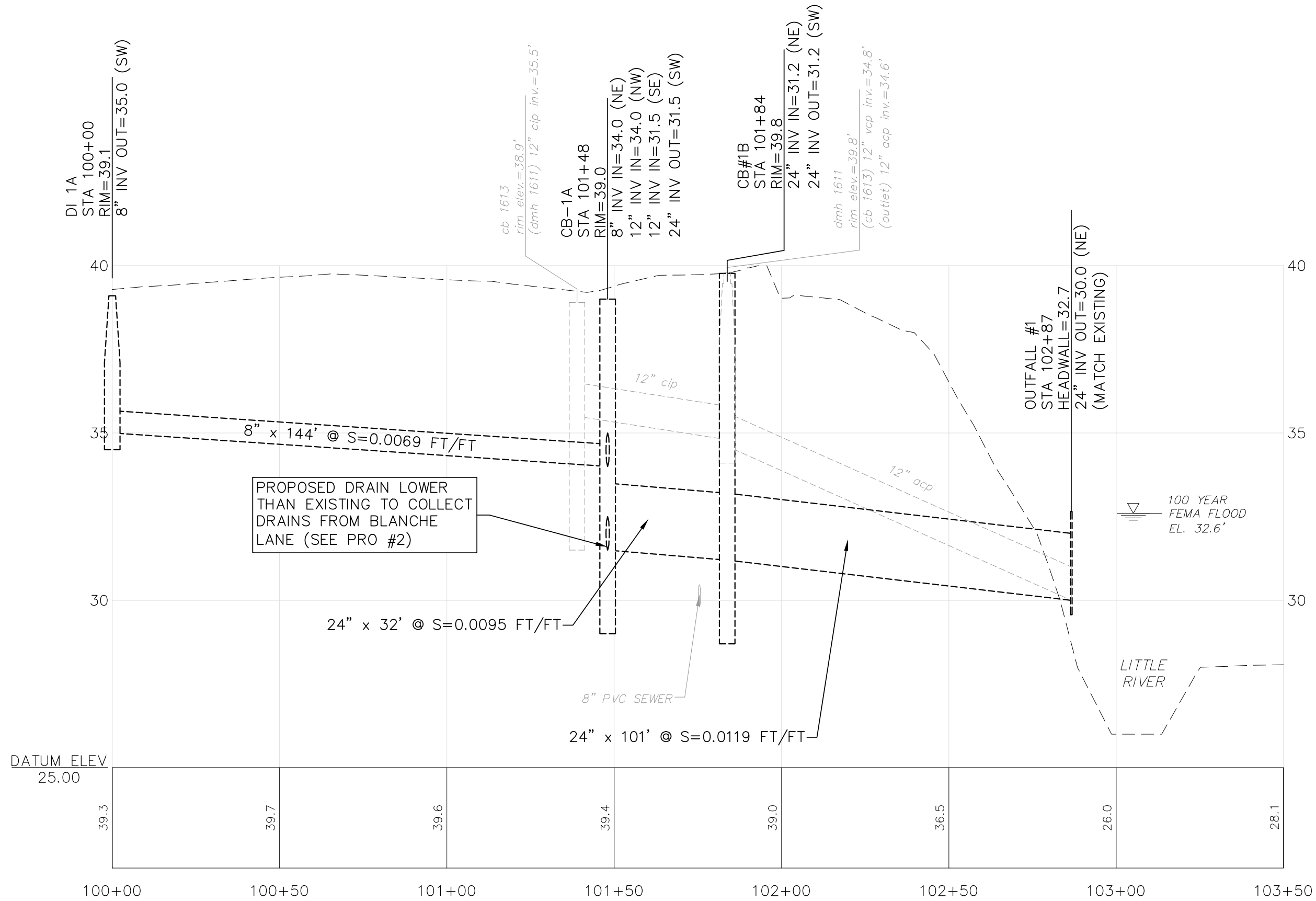


DATE	9/2021		CONCEPTUAL DRAINAGE IMPROVEMENTS PROFILE KEY WESTSIDE DRIVE PLANNING EXETER, NEW HAMPSHIRE
PROJECT	2588		
		25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733	

FIG. 4B

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C:\Users\rmg\Desktop\working files\Real\Numbers\Exeter\2568 - Westside Drive Conceptual Plan Development\Drawings\2568_Base_Figures.dwg, Fig PRO 1, 9/13/2021 10:33:16 AM, rmg



NOTE:
VERTICAL DATUM IS BASED ON APPROXIMATE NAVD 88 DERIVED FROM REDUNDANT GPS MEASUREMENTS BY DOUCET SURVEY IN 2020.

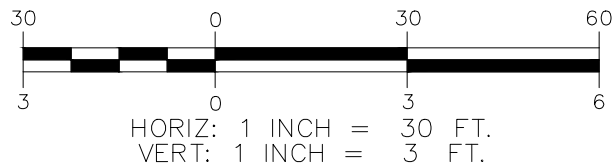
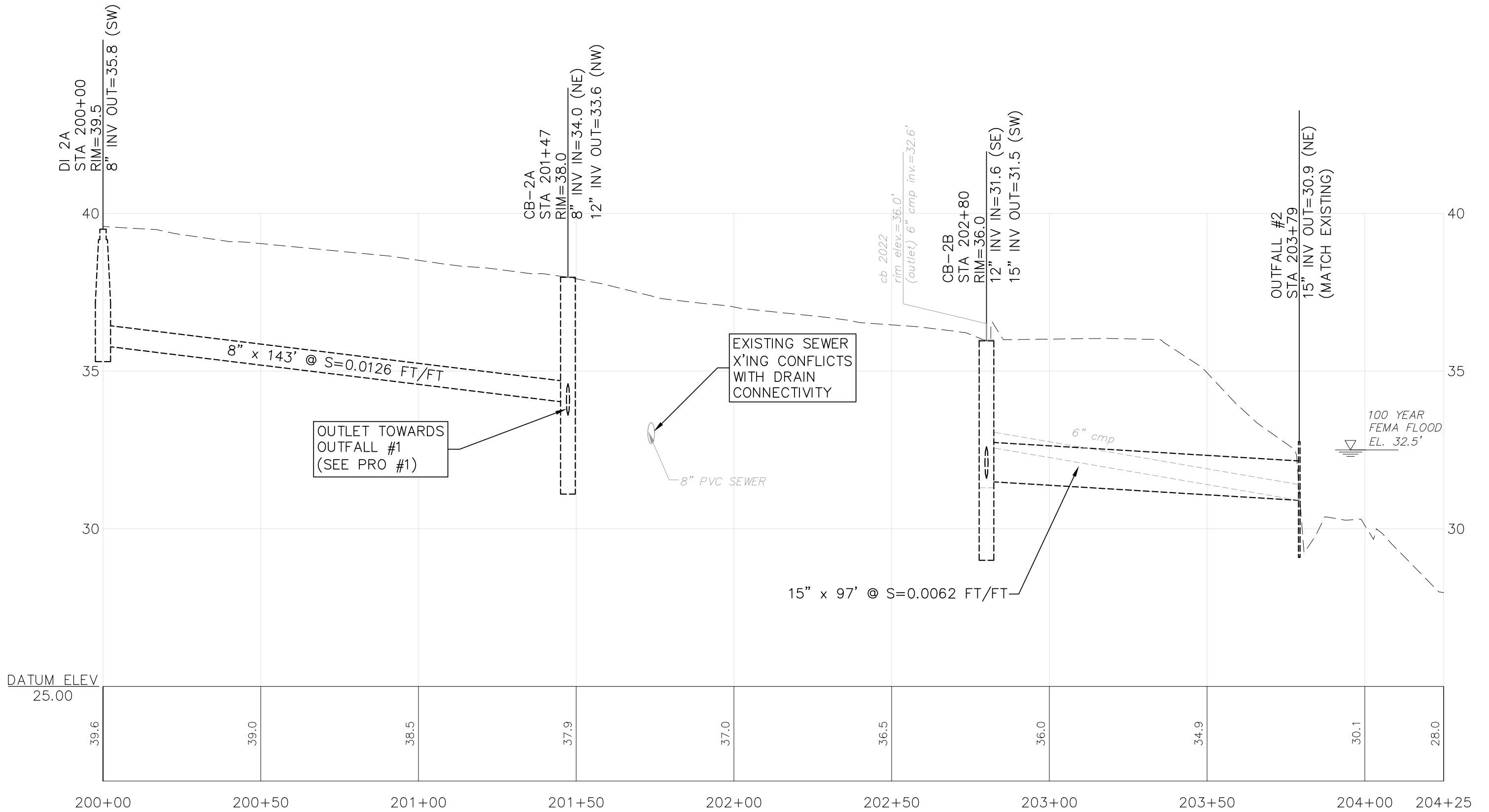
DATE	9/2021
PROJECT	2568

25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

CONCEPTUAL DRAIN PROFILE
OUTFALL #1
WESTSIDE DRIVE PLANNING
EXETER, NEW HAMPSHIRE

FIG.
PRO #1

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NOTE:
VERTICAL DATUM IS BASED ON APPROXIMATE NAVD 88 DERIVED FROM REDUNDANT GPS MEASUREMENTS BY DOUCET SURVEY IN 2020.

DATE	9/2021
PROJECT	2588

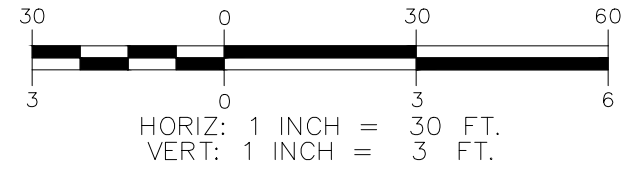
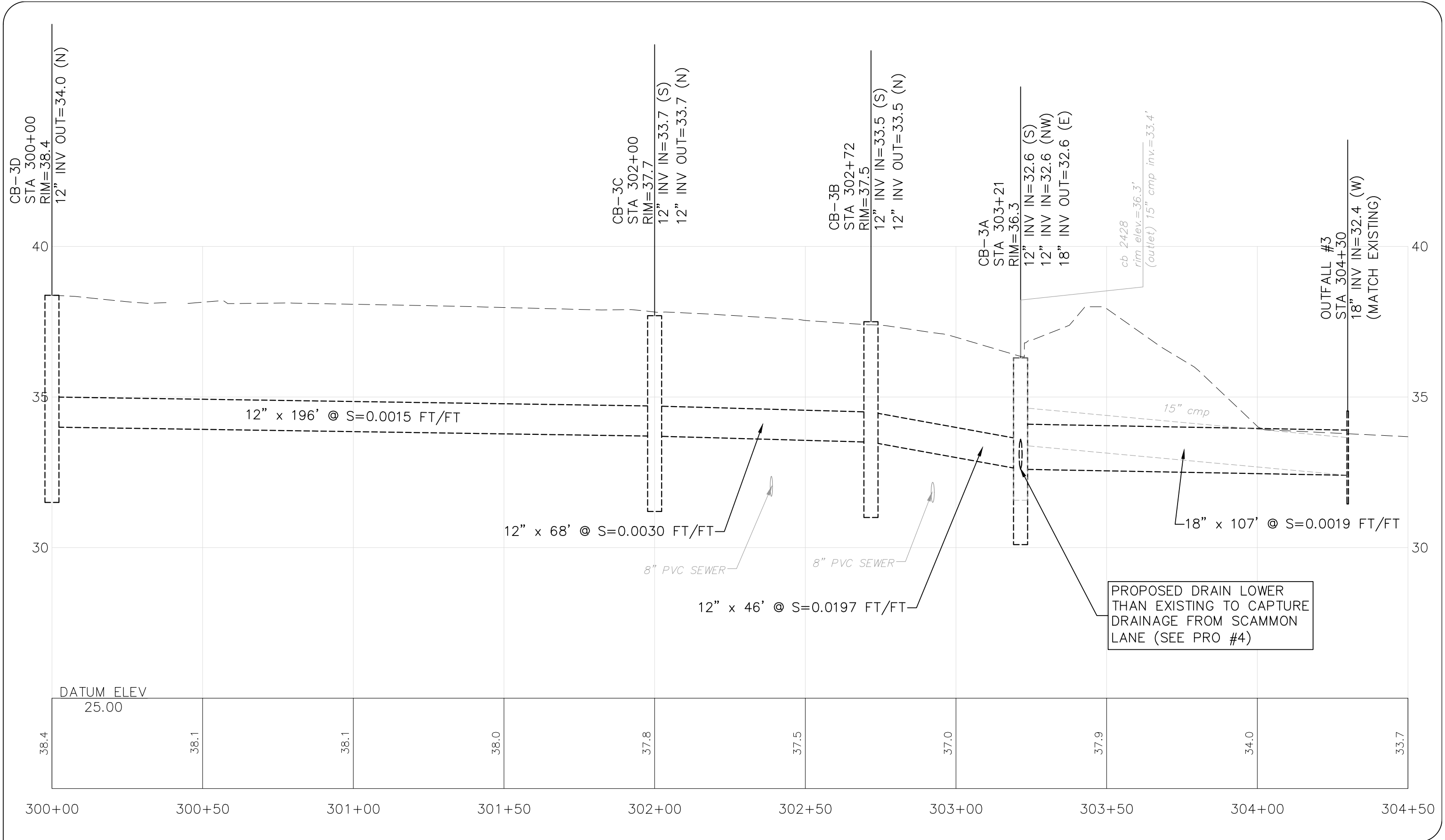
UNDERWOOD
engineers

25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

CONCEPTUAL DRAIN PROFILE
OUTFALL #2
WESTSIDE DRIVE PLANNING
EXETER, NEW HAMPSHIRE

FIG.
PRO #2

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NOTE:
VERTICAL DATUM IS BASED ON APPROXIMATE NAVD 88 DERIVED FROM REDUNDANT GPS MEASUREMENTS BY DOUCET SURVEY IN 2020.

DATE	9/2021
PROJECT	2588

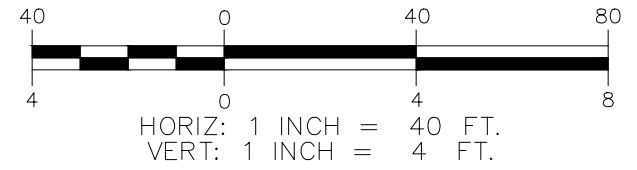
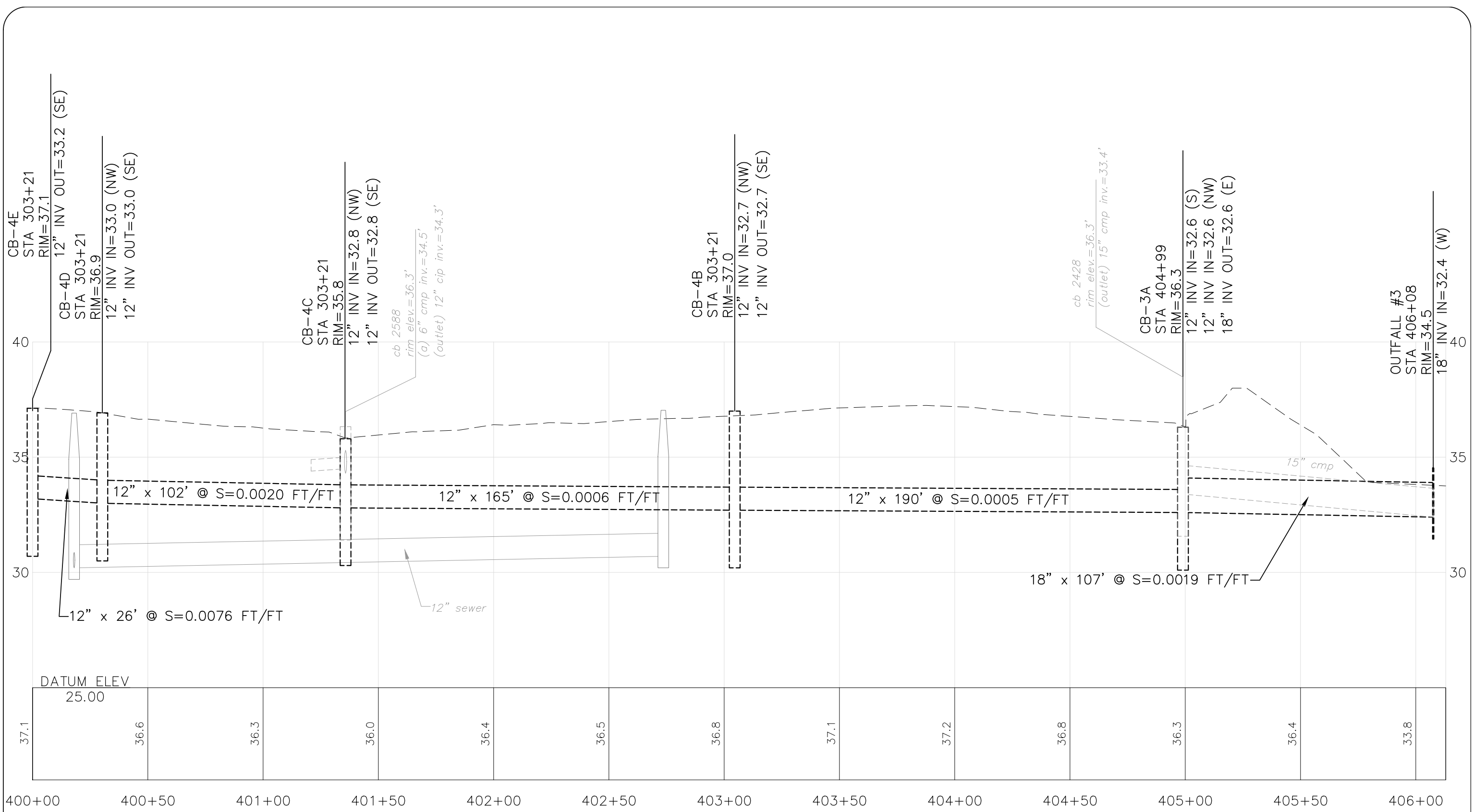
UNDERWOOD
engineers

25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

CONCEPTUAL DRAIN PROFILE
OUTFALL #3 (NORTH PROFILE)
WESTSIDE DRIVE PLANNING
EXETER, NEW HAMPSHIRE

FIG.
PRO #3

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NOTE:
VERTICAL DATUM IS BASED ON APPROXIMATE NAVD 88 DERIVED FROM REDUNDANT GPS MEASUREMENTS BY DOUCET SURVEY IN 2020.

DATE	9/2021
PROJECT	2588



25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

CONCEPTUAL DRAIN PROFILE
OUTFALL #3 (SOUTH PROFILE)
WESTSIDE DRIVE PLANNING
EXETER, NEW HAMPSHIRE

FIG.
PRO #4

Appendix A
Executed Report Phase
Engineering Contract

**ENGINEERING REPORT PHASE
CONTRACT FOR PROFESSIONAL SERVICES
FOR
TREATMENT WORKS**

TOWN OF EXETER, NEW HAMPSHIRE

This AGREEMENT made and entered into at Rockingham County, New Hampshire, this 3rd day of August 2020, by and between Town of Exeter, NH hereinafter called the OWNER, Underwood Engineers, Inc. hereinafter called the ENGINEER.

WITNESSETH:

WHEREAS, the OWNER intends to examine the need, alternatives and cost of constructing Treatment Works including develop a report phase preliminary design for the Westside Drive Neighborhood that could be used as a tool for future I/I mitigation and project development. A detailed description of the scope of services is provided as Attachment A and a Certificate of Insurance is provided as Attachment B.

hereinafter called the PROJECT, and

WHEREAS, professional sanitary engineering services are required to prepare an engineering report, and

WHEREAS, such services are of a distinct professional nature and hence not subject to the bidding process,

NOW THEREFORE, in consideration of these premises and of the mutual covenants herein set forth, the OWNER hereby retains the ENGINEER to furnish the following engineering services in connection with the proposed PROJECT; and it is agreed by and between the OWNER and the ENGINEER as follows:

I. Services to be performed by the ENGINEER

A. The ENGINEER agrees to produce a complete and definitive Engineering Report to meet current division requirements and to perform any and all engineering incidental thereto. The detailed scope of the work is as outlined in the attached Plan of Study.

B. Furnish to the OWNER two (2) copies of information needed for the acquisition of easements, site options for treatment plant and pump stations and route options for interceptor sewers within ____ calendar days after the Engineering Report has been approved by the New Hampshire Department of Environmental Services, Water Division, hereinafter called the DIVISION.

C. Furnish four (4) copies of the Engineering Report to the OWNER and two (2) copies to the DIVISION. Additional copies to be available at cost.

D. Prepare applications with supporting and associated documents for Federal, State and other grant or loan programs.

1. Assists the OWNER in securing grants or loans by State, Federal and other grant or loan agencies.

E. Provide the DIVISION with one copy of design calculations, work sheets, field notes, estimates and other data generated in preparing the Engineering Report in a form satisfactory to the DIVISION.

II. The OWNER'S Responsibilities

A. Assist the ENGINEER by placing at his disposal all available information pertinent to the PROJECT, including previous reports and other data relative to the reports.

B. Make provisions for the ENGINEER to enter upon public and private lands, municipal facilities and industrial establishments as required to perform work under this AGREEMENT.

III. Time of Completion

A. The ENGINEER agrees that he will submit to the DIVISION and the OWNER for approval after modification or revision as recommended by the DIVISION and agreed to by the ENGINEER the completed report within ____ consecutive calendar days following the

acceptance of the contract by the OWNER, and deliver same to the OWNER within 30 calendar days following the date of final approval by the DIVISION.

B. It is agreed by the parties to this contract that failure by the ENGINEER to complete the work within the time stipulated under III, A, above may be considered sufficient basis for the debarment of the ENGINEER from the DIVISION'S Roster of Prequalified Engineers as provided for under New Hampshire Code of Administrative Rules Env-Wq 603.08, or the Assessment of liquidated damages as provided for under RSA 485-A: 4, XII.

IV. Compensation to be Paid the ENGINEER

A. Method of Payment - Amount of Fee

1. Payment to the ENGINEER, for services rendered, shall be according to the following schedule:

Monthly billing based on hours and rates by labor category with mark-up and incidental expenses in accordance with the attached fee schedule.

2. The OWNER agrees to pay and the ENGINEER agrees to accept for all services under this AGREEMENT, a fee not to exceed

Ninety Seven Thousand and Six Hundred

Dollars (\$97,600),

and the ENGINEER agrees that the work proposed is sufficient to satisfactorily complete the study and that the monies to be paid are adequate. The attached fee schedule with labor category, hours, hourly rate, markup, incidental expenses, and fees for special services, shall be the basis for billing for engineering services.

a. The ENGINEER agrees that prior to submitting the report to the DIVISION for formal approval he shall make revisions in the report as recommended by the DIVISION and agreed to by the ENGINEER without additional compensation. After formal approval if it becomes necessary to update the report for reasons beyond the control of the ENGINEER, payment for such revision or revisions shall be made to

the ENGINEER on a basis to be negotiated with the DIVISION.

V. Additional Covenants

A. The ENGINEER agrees to assign in active charge of this PROJECT for the life of the contract a Project Engineer who is a permanent employee of the ENGINEER and who is a "qualified sanitary engineer" as defined under the DIVISION'S "Rules and Regulations for the Prequalification of Consulting Engineers." The Project Engineer shall be*

Cole S. Melendy, P.E.

* See appended resume describing the candidate's qualifications for the assignment.

Any proposed change in identity of the Project Engineer on the PROJECT shall first be approved by the DIVISION before transfer of responsibility is made. Failure of the ENGINEER to abide by the above covenant is agreed to be sufficient basis for debarment of the ENGINEER from the DIVISION'S Roster of Pre-qualified Consulting Engineers as provided for under New Hampshire Code of Administrative Rules Env-Wq 603.08.

B. The ENGINEER agrees to be solely responsible for all bills or claims for payment for services rendered by others and for all services and materials employed in his work, and to indemnify and save harmless the OWNER, and all of the OWNER'S officers, agents and employees against all suits, claims or liability of every name and nature arising out of or in consequence of the negligent acts or failures to act of the ENGINEER or others employed by him in the performance of the work covered by this AGREEMENT.

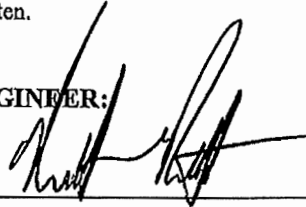
C. The ENGINEER further agrees to procure and maintain at his expense such workmen's compensation insurance as is required by the statutes and public liability insurance in amounts adequate to provide reasonable protection from claims for bodily injury, death or property damage which may result from his performance and the performance of his employees under this AGREEMENT.

D. All documents, including original drawings, design calculations, work sheets, field notes, estimates, and other data shall remain the property of the OWNER and shall be transmitted to the OWNER in clean and orderly condition on demand; however, these may be left in the possession of the ENGINEER at the OWNER'S discretion.

E. The ENGINEER shall not sublet, assign or transfer any part of the ENGINEER'S services or obligations under this AGREEMENT without the prior approval and written consent of the OWNER and the DIVISION, and the contract shall be binding upon and inure to the benefit of the parties, their successors and assigns.

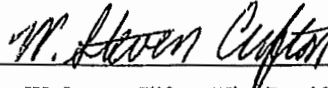
IN WITNESS WHEREOF, the parties hereto have affixed their hand and seals at Rockingham County, New Hampshire, the day, month, and year first above written.

ENGINEER:



By: Keith A. Pratt, P.E., President
(Authorized Representative*)

Date: 7-30-20



By: W. Steven Clifton, Vice President
(Authorized Representative*)

Date: 7-30-2020

OWNER:



By: Russell Dean, Town Manager, Exeter, New Hampshire
(Authorized Representative*)

Date: 8/3/20

APPROVED: **

DEPARTMENT OF ENVIRONMENTAL SERVICES

Water Division



By: _____
(Authorized Representative)

Date: 8/5/20

* Signatures should be supported by appropriate document.
** It is agreed that as an act in furtherance of its statutory authority to approve engineering agreements for treatment works, the DIVISION'S approval does not impose any contractual obligation or liability on the State of New Hampshire, the Department of Environmental Services or the Division.

Approved as to form:

At a meeting of the Partners/Directors of Underwood Engineers, Inc., held on _____,
at which all the Partners/Directors were present, except _____,
it was

VOTES: That all contracts may be signed by any one of the following:

Keith A. Pratt, President and W. Steven Clifton, Vice President

A true copy

Colleen A. Morrow

Attest: Colleen A. Morrow, Secretary/Treasurer

Place of Business: 25 Vaughan Mall, Portsmouth, NH 03801-4012

Date of this Contract: _____

I hereby certify that I am the Clerk of Underwood Engineers, Inc., that Keith A. Pratt is the duly elected President, and that W. Steven Clifton is the duly elected Vice President, and that the above vote has not been amended or rescinded and remains in full force and effect as of this date.

Colleen A. Morrow

Clerk – Colleen A. Morrow, Secretary

**ADDENDUM
TO
PROFESSIONAL ENGINEERING SERVICES CONTRACT
FOR
TREATMENT WORKS**

THIS ADDENDUM to the ENGINEERING CONTRACT FOR PROFESSIONAL SERVICES FOR TREATMENT WORKS (the "Agreement") made effective this 3rd day of August 2020, by the Town of Exeter, New Hampshire, hereinafter referred to as the "Owner", and UNDERWOOD ENGINEERS, INC. hereinafter referred to as the "Engineer", a New Hampshire corporation with its principal place of business at 25 Vaughan Mall, Portsmouth, New Hampshire 03801-4012.

-- WITNESSETH --

RECITALS

WHEREAS, the Owner requires, and the Engineer agrees to provide certain professional engineering services (the "Services") in connection with engineering design of treatment works (hereinafter referred to as the "Project") at Westside Drive in Exeter, New Hampshire;

WHEREAS, the Addendum is incorporated into the Agreement by reference herein and made part thereof.

NOW THEREFORE, in consideration of the undertakings of the parties hereinafter set forth, the Owner and the Engineer, agree as follows:

Insurance

During the term of the AGREEMENT and any extension, ENGINEER must carry and maintain the following insurance:

- (A) Commercial general liability coverage with limits of at least \$1,000,000 per occurrence and \$2,000,000 aggregate applicable to the work and services performed under this AGREEMENT. The commercial general liability policy must also contain contractual liability applicable to the contractual indemnification obligation set forth in this AGREEMENT;
- (B) Automobile liability coverage of at least \$1,000,000 combined single limit (each accident);
- (C) Umbrella liability coverage of at least ~~\$10,000,000~~ \$5,000,000;
- (D) Professional liability coverage with minimum limits of \$1,000,000 per claim and \$3,000,000 aggregate;
- (E) Workers' compensation coverage meeting State of New Hampshire required limits and providing employer's liability coverage.

Prior to execution of this AGREEMENT, ENGINEER must furnish to OWNER a certificate of insurance proving it carries the insurance described above. The certificate must indicate that the OWNER and its officials, ~~agents~~, employees and volunteers are named as an additional insured on ENGINEER's commercial general liability, automobile liability, and umbrella liability

policies on a primary and noncontributory basis. If ENGINEER's liability policies require certain policy provisions or endorsements to effectuate OWNER's additional insured status, then ENGINEER must provide such policy provisions or endorsements prior to execution of this AGREEMENT.

Indemnification

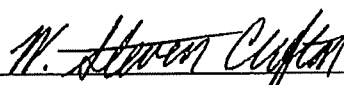
The Consultant agrees, to the fullest extent permitted by law, to indemnify and hold harmless the Client, its officers, directors and employees (collectively, Client) against all damages, liabilities or costs, including reasonable attorney's fees and defense costs, to the extent caused by the Consultant's negligent performance of professional services under this Agreement and that of its subconsultants or anyone for whom the Consultant is legally liable.

IN WITNESS WHEREOF, the parties hereto have affixed their hand and seals at Rockingham County, New Hampshire, the day, month, and year first above written.

ENGINEER:  Underwood Engineers, Inc.

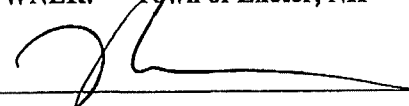
By: **Keith A. Pratt, P.E., President**
(Authorized Representative)

Date: 7-30-20


By: **W. Steven Clifton, P.E., Vice President**
(Authorized Representative*)

Date: 7-30-2020

OWNER: **Town of Exeter, NH**



By: _____
(Authorized Representative*)

Date: 8/3/20

* Signatures should be supported by appropriate document.

COST OR PRICE SUMMARY FORMAT FOR SUBAGREEMENTS UNDER NH SAG & SRF				Form Approved DES 11/00			
PART I - GENERAL							
1. GRANTEE / LOANEE				2. GRANT/LOAN NO.			
3. NAME OF CONTRACTOR OR SUBCONTRACTOR Underwood Engineers, Inc.				4. DATE OF PROPOSAL			
5. ADDRESS OF CONTRACTOR OR SUBCONTRACTOR (Include ZIP) 25 Vaughan Mall, Portsmouth, New Hampshire 03801-4012			6. TYPE OF SERVICE TO BE FURNISHED				
PART II - COST SUMMARY							
7. DIRECT LABOR (Specify labor categories)	HOURS	HOURLY RATE	ESTIMATED COST	TOTALS			
Principal	24	\$64.50	\$1,548.00				
Sr. Project Manager	16	\$54.50	\$872.00				
Project Manager	76	\$47.00	\$3,572.00				
Sr. Project Engineer	74	\$43.00	\$3,182.00				
Project Engineer	253	\$33.00	\$8,349.00				
Project Engineer (II)	0	\$33.00	\$0.00				
Sr. Resident Engineer	0	\$35.00	\$0.00				
Resident Engineer	0	\$25.00	\$0.00				
Technician	132	\$33.00	\$4,356.00				
Clerical	22	\$24.50	\$539.00				
DIRECT LABOR TOTAL:						\$22,418.00	
8. INDIRECT COSTS (Specify indirect cost pools)	RATE	x BASE =	ESTIMATED COST				
	1.76	\$22,418.00	\$39,455.68				
INDIRECT COST TOTAL:				\$39,455.68			
9. OTHER DIRECT COSTS							
a. TRAVEL			ESTIMATED COST				
(1) TRANSPORTATION (\$0.365 per mile)			\$0.00				
(2) PER DIEM			\$0.00				
TRAVEL COSTS TOTAL:			\$0.00				
b. EQUIPMENT, MATERIALS, SUPPLIES (Specify categories)			ESTIMATED COST				
Mileage	200	\$0.54	\$108.00				
Copies (B/W)	1000	\$0.10	\$100.00				
Copies (Color)	400	\$0.30	\$120.00				
Prints	40	\$1.50	\$60.00				
Misc.	551	\$1.00	\$551.00				
EQUIPMENT SUBTOTAL:			\$939.00				
c. SUBCONTRACTS			ESTIMATED COST				
Doucet Survey, Inc.			\$9,820.00				
R.W. Gillespie & Associates, Inc.			\$8,500.00				
Flow Assessment			\$6,600.00				
SUBCONTRACTS SUBTOTAL:			\$24,920.00				
d. OTHER (Specify categories)			ESTIMATED COST				
			\$0.00				
			\$0.00				
OTHER SUBTOTAL:			\$0.00				
e. OTHER DIRECT COSTS TOTAL:			\$25,859.00				
10. TOTAL ESTIMATED COST				\$87,732.68			
11. PROFIT				\$9,867.32			
12. TOTAL PRICE				\$97,600.00			

PART III - PRICE SUMMARY		
COMPETITOR'S CATALOG LISTINGS, IN-HOUSE ESTIMATES, PRIOR QUOTES	MARKET PRICE(S)	PROPOSED PRICE
13. (Indicate basis for price comparison)		

PART IV - DIRECT LABOR BY CATEGORY

14. INSERT THE APPROPRIATE WORK CATEGORY IN THE TABLE BELOW. WORK CATEGORIES WOULD INCLUDE BUT NOT BE LIMITED TO THOSE CATEGORIES SHOWN IN THE CONTRACT DOCUMENTS SUCH AS DESIGN, SURVEY, SUBSURFACE, CADASTRAL, O&M MANUAL, ADMINISTRATION, INSPECTION, RECORD DWGS., START-UP, SPECIAL SERVICES, ETC.

Work category →	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Total Hours	Rate	Cost
Principal	8	2	2	12			24	\$64.50	\$1,548.00
Sr. Project Manager	12			4			16	\$54.50	\$872.00
Project Manager	36	8	8	20	4		76	\$47.00	\$3,572.00
Sr. Project Engineer	0			62	12		74	\$43.00	\$3,182.00
Project Engineer	40	12	12	173	16		253	\$33.00	\$8,349.00
Project Engineer (II)							0	\$33.00	\$0.00
Sr. Resident Engineer							0	\$35.00	\$0.00
Resident Engineer							0	\$25.00	\$0.00
Technician	12	20	4	88	8		132	\$33.00	\$4,356.00
Clerical	18	2	2				22	\$24.50	\$539.00
Total - Direct Labor Cost									\$22,418.00

comments:

Attachment A - Scope of Services

Underwood Engineers, Inc. (UE) will use our existing knowledge of the Exeter's wastewater collection system to develop a planning document for the Westside Drive Neighborhood that is consistent with the Town's NHDES Clean Water SRF Planning Grant. Some of UE's previous wastewater work for the Town that was used to develop this scope of work includes:

- *Phase III Infiltration and Inflow Evaluation, January 14, 2013* (Phase III I/I Study) wherein UE built on previous investigations by others to evaluate Infiltration and Inflow (I/I) in the Town's wastewater collection system. This document served as the Town's Combined Sewer Overflow (CSO) Long-Term Control Plan (LTCP) and identified that a significant portion of I/I in the Town's system originated from private sources.
- *Public Outreach and Private I/I Mitigation Program (2015), January 12, 2016* wherein UE assisted the Town develop a Town-wide public information mailer and private I/I policy supported at all levels of the Town government.
- *Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) Update, (January 30, 2017)* which recommended private I/I mitigation including private I/I pilot areas.

The Westside Drive neighborhood was identified as a private I/I pilot area in the Town's Phase III I/I study and CSO LTCP. To help gain support of the stakeholders and develop effective concepts UE's project approach includes a simplified Context Sensitive Solutions (CSS) process developed originally by AASHTO and NHDOT. As opposed to traditional approaches, the CSS focuses on defining the problem and framework prior to developing alternatives. This requires mechanisms that first collect information on issues and listening to the public/stakeholders to understand the current challenges prior to presenting concepts.

The primary objective is to develop a report phased preliminary design for the Westside Drive Neighborhood that could be used as a tool for future I/I mitigation and project development. It is intended that the CSS process will be used to include the following considerations for overall project planning and concepts:

- Evaluate alternatives to reduce roadway and sidewalk impervious area (possible non-point nutrient source mitigation considerations)
- Evaluate the adequacy of existing storm drain systems and the feasibility of additional drainage systems, drainage outfall limitations (Little River stage height), and private drainage tie-ins
- Evaluate alternatives to reduce groundwater impacts to the roadway
- Evaluate alternatives for private sump pump mitigation and separation from the sewer
- Feasibility of stormwater BMPs for water quality
- Water system condition considerations and planned improvements
- Roadway and sidewalk safety improvements
- Timing of utility improvements with roadway repairs
- Town participation for work on private property
- Private utility (gas, electric, cable, telephone) improvements



Attachment A - Scope of Services

Underwood Engineer's Scope of Services includes:

Task #1 – Public Participation and CSS Approach

Prepare for and assist with facilitating the following for CSS and Public Information Process as described above:

- Kickoff Meeting with DPW
- Stakeholder/Public Input Meeting #1
 - Introduce project to public and abutters
 - Gain input on apparent problems within the work area
 - Gain input on wants for improvements from abutters
 - Allow attendees to identify problem areas on preliminary base plans (aerial photo/GIS)
- Develop Conceptual Alternatives
 - Work with Town staff to develop alternatives based on input from public input meetings and general understanding of costs for types of improvements
 - Attend work sessions (2) with DPW to refine concepts
- Stakeholder/Public Input Meeting #2
 - Present selected alternative concepts to public and abutters
 - Receive general feedback and comments

The information and feedback gathered through the CSS process will be incorporated into the conceptual planning documents and design plans described in later phases of the project.

Task #2 – Mapping and Base Plan Development

Develop Base Maps for use in conceptual designs and public meeting support including the following:

- Town GIS data (property lines, buildings, and utility information)
- Supplemental topographic survey to locate the following:
 - Roadway centerline
 - Edge of Pavement
 - Roadside Drainage Swales
 - Drainage Structures and Inverts
 - Sewer Manholes
- Field investigations to establish 4 temporary benchmarks
- Aerial photography

Deliverable will be a base plan of the project area in 2019 Autocad Civil3D format using Horizontal Datum NHSPC, NAD83(2011) and Vertical Datum NAVD88.

Task #3 – Subsurface Investigation and Evaluation

Perform one day of borings to evaluate subsurface conditions and install monitoring wells to evaluate groundwater conditions over time. This task will include 1 day of subsurface investigations that are anticipated to include up to:

- Eight (8) borings approximately 10' deep to evaluate subsurface soil conditions
- Four (4) groundwater monitoring wells to evaluate groundwater conditions over time
- Grainsize distribution tests to evaluate road base materials and estimate soil permeability



Attachment A - Scope of Services

- Geotechnical Summary Report

Task 4 –Basis of Design Planning Document and Conceptual Design Plans

UE will perform the following evaluations and incorporate findings and information gathered during Tasks 1 through 3 into a basis of design planning technical memorandum for the Westside Drive Neighborhood.

Sewer/Water Service Location and Private I/I Mitigation

Review the existing house inspection forms that were previously performed by UE (2009). UE will provide supplemental inspections (20 assumed – 3 days) for properties not previously inspected if access is granted by the property owner. Critical information from inspections includes:

- Water service location
- Sewer service location and depth where it exits the building
- Drainage systems
- Illicit sewer connections

Findings will be summarized in a technical memorandum. UE will incorporate this information into the design concepts and work with the Town to develop a strategy to address private I/I in the project area.

Roadway Condition and Drainage System Evaluation

Evaluate roads and sidewalks for safety improvements and potential for reducing impervious cover. This does not include design of the pavement section at this time. Evaluate the condition of existing drainage systems to identify alternatives to mitigate identified deficiencies, expansion of drainage system to accommodate I/I, and potential for water quality BMPs. The findings of the geotechnical investigation (particularly groundwater levels) will be considered in evaluating the feasibility of drainage alternatives and roadway recommendations.

Water System Evaluation

Evaluate the need for water system improvements based on the recommendations of the water system Asset Management Program. Improvements will not be designed during this phase but will be identified to incorporate into the future construction project.

Private Utility Improvements

Coordinate with contacts for responsive available private utility providers (gas, electric, cable, telephone) to document their long-term private utility improvement plans within the neighborhood and consider the feasibility and cost of private utilities improvements (such as underground electric) into the basis of design for the neighborhood.

Engineer's Opinions of Probable Cost and Conceptual Design Plans

UE will provide engineer's opinion of probable cost for up to three (3) design alternatives included in the Basis of Design Planning Document. UE will develop conceptual design plans for the project for the selected alternative by the Town.



Attachment A - Scope of Services

Task 5 – Town Sewer AMP Supplement

The Town's sewer system AMP will be used as a base and will be refined for the specific project elements developed for the Westside Drive Planning Document (Task 4). In addition, the findings and lessons learned through the Westside Drive planning project, particularly as they relate to Private I/I mitigation, will be used to supplement the Town's system-wide AMP.

Information to be Provided by the Town:

- Town GIS information
- Water System AMP
- Private utility contact information
- Westside Drive Pumping station O&M manual and pump curves
- Westside Drive Pumping station pump records for the past 3 years

Deliverables:

Compile a planning document and conceptual design summarizing the findings of Tasks 1 through 5 including the following:

- CSS Public Input Stakeholder Meetings (2)
- Work sessions with the Town (2)
- Provide Basis of Design Planning Memo which includes considerations for:
 - Private I/I Mitigation
 - Pumping Station Evaluation
 - Roadway and Drainage Evaluation
 - Water System Evaluation
 - Private utility improvement considerations
 - Preliminary cost estimate for design alternatives (up to 3)
- Conceptual design base plan for the selected alternative
- Supplement for the Town's overall wastewater collection system AMP

Work Not Included

- Typical Roadway Section recommendation
- Cadastral and easements
- Jurisdictional wetland delineations
- Final Survey, Design and Specifications
- Application, permit application and fees
- Any other services not explicitly stated above

Schedule (Field Investigations and Meetings Pending COVID 19 Health Guidelines)

- | | |
|-----------------------------------------------------------|----------------------|
| • Contract Authorization | June 2020 |
| • NHDES Application (by Town) | June 2020 |
| • Kickoff Meeting with DPW | July 2020 |
| • Field Investigations (Geotech, House Inspections, etc.) | July-September 2020* |
| • CSS meetings and Process | August – Dec. 2020* |
| • Basis of Design Planning Memo | Jan 2021 |
| • Conceptual Design Plans | May 2021 |





Attachment B

UNDER-1

QP ID: BC

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
06/02/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Poole Professional B&B of MA 107 Audubon Rd, #2, Ste 305 Wakefield, MA 01880 Christopher A. Poole	781-245-5400	CONTACT NAME: Ernest J. Swymer PHONE (A/C, No, Ext): 781-245-5400 FAX (A/C, No): 781-245-5463 E-MAIL ADDRESS:
	INSURER(S) AFFORDING COVERAGE INSURER A: Hartford Casualty Insurance Co NAIC # 29424 INSURER B: Hartford Insurance Company 30104 INSURER C: Twin City Insurance Company 29459 INSURER D: XL Specialty Insurance Company 37885 INSURER E: INSURER F:	
INSURED Underwood Engineers, Inc. 25 Vaughan Mall Unit 1 Portsmouth, NH 03801-4012		

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			08SBAAE2950	06/01/2020	06/01/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			08UECAZ8237	06/01/2020	06/01/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			08SBAAE2950	06/01/2020	06/01/2021	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	08WBCAG4M6D	06/01/2020	06/01/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	<input checked="" type="checkbox"/> Arch/Engrs <input checked="" type="checkbox"/> Prof Liability			DPR9960463	06/01/2020	06/01/2021	Per Claim \$ 2,000,000 Aggregate \$ 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
For Proposal Purposes Only

CERTIFICATE HOLDER

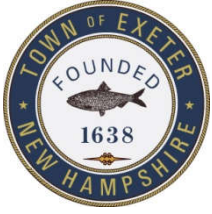
Underwood Engineers, Inc.
25 Vaughan Mall Unit 1
Portsmouth, NH 03801-4012

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Appendix B
Questionnaire



EXETER PUBLIC WORKS DEPARTMENT

13 NEWFIELDS ROAD • EXETER, NH • 03833-3792 • (603) 773-6157 • FAX 772-1355

www.exeternh.gov

October 2, 2020

Town Resident
Exeter, NH 03833

Re: **Westside Drive Area Utility Improvements**
Exeter, New Hampshire

Dear Exeter Resident:

The Town is currently working with Underwood Engineers, Inc. to develop a plan for municipal infrastructure improvements within the Westside Drive Neighborhood. This work is part of the Town's ongoing work to provide reliable utility services to residents and is also recommended by the Town's sewer system CSO Long Term Control Plan with EPA.

We are sending this letter to encourage neighborhood residents to get involved with helping us identify long-term sewer, drainage, roadway, and water improvement needs and goals for the project. As a first step, **please fill out and return the attached questionnaire pamphlet with the included pre-paid envelope by October 15th**. You can also complete the survey online at the website below.

Please be aware that preliminary field evaluations will begin in the coming weeks (surveyors, drillers, building inspections, etc.) to gather information and these efforts are just an early step in the project planning process. We would appreciate it if you can maintain safe distances around the street crews.

Inspectors from Underwood Engineers and Flow Assessment Services will be working to confirm the location and material of sewer services exiting the houses within in the neighborhood. This typically includes inspecting the basement piping. Inspectors will be in the neighborhood this October between 8 am and 4 pm to request access to your basement. This information is an important part of the project planning, but we understand if you do not feel comfortable allowing access at this time. The inspectors will have identification and will be following proper safety protocols related to COVID-19. For homes that we are unable to access, we will follow up with a phone call to ask questions and request photos of the service if possible.

A Town Hall-style Zoom meeting is scheduled for **Wednesday, October 28, 2020 at 6:30 pm**. This is to provide you with more information and solicit additional input. For more information on this project regarding schedules, updates, and how to access the Zoom meetings please visit

Page 2 of 2
October 2, 2020

the Town's website below:

<https://www.exeternh.gov/publicworks/westside-drive-area-utility-improvement-project>

Thank you very much for your time and assistance.

Very truly yours,

TOWN OF EXETER

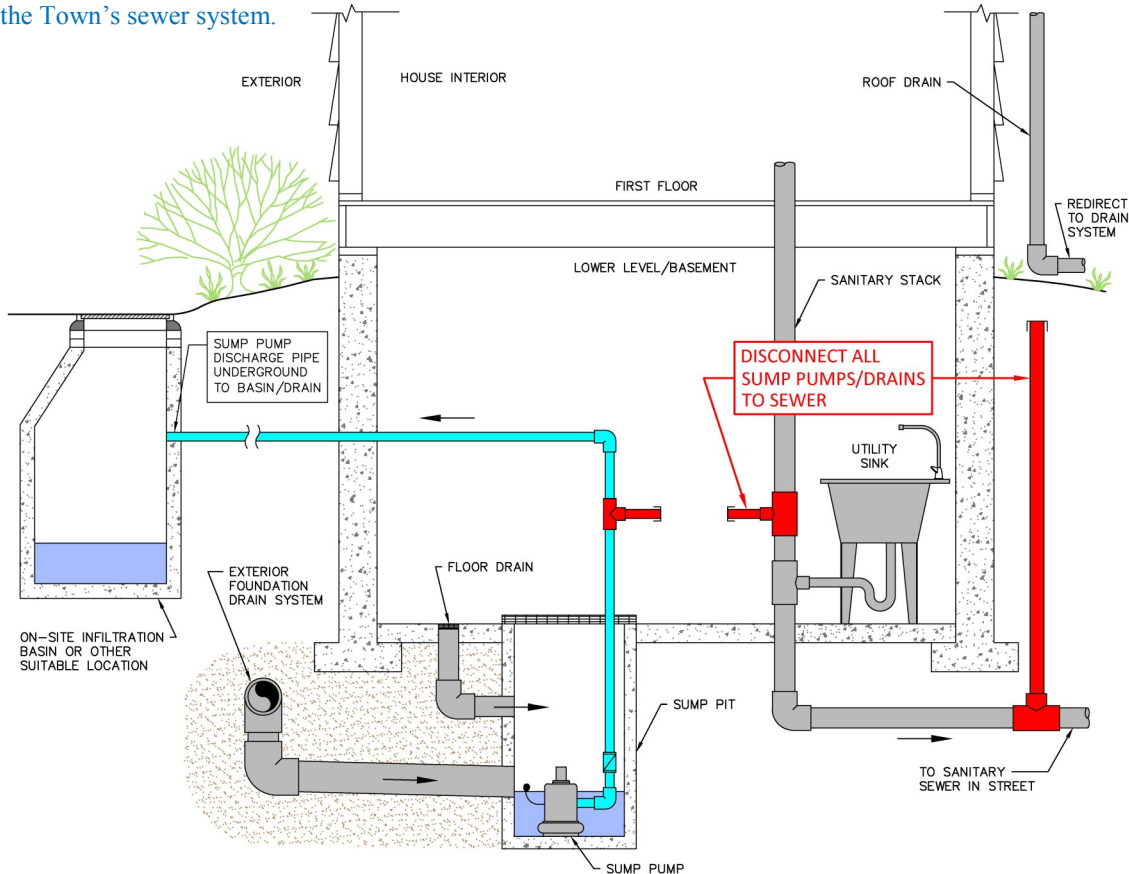
Jennifer Mates, P.E.
Assistant Town Engineer

PROJECT GOALS

- Improve Town utilities and roadways in the neighborhood
- Improve drainage issues
- Reduce the amount of Stormwater and Groundwater entering the Town's Sewer System from private sump pumps, drains, etc. This helps protect the environment from combined sewage overflows and will help reduce wastewater treatment costs for everyone in Town.

How can everyone help reduce stormwater and groundwater from entering the sewer system?

This schematic shows typical solutions for removing private sources of stormwater/groundwater from entering the Town's sewer system.



Brochure produced by:
Public Works Department

13 Newfields Rd

Jennifer Mates, PE Assistant Town Engineer
603-418-6431, jmates@exeternh.gov

NEXT STEPS

- Please complete this questionnaire and mail back to the Town of Exeter with the provided prepaid envelope.
- You can also complete this questionnaire online and stay up to date on the Town's website:
<https://www.exeternh.gov/publicworks/westside-drive-area-utility-improvement-project>
- The Town will have staff, surveyors and soil scientists in the field collecting data.



WESTSIDE DRIVE

AREA

QUESTIONNAIRE

PLEASE FILL OUT THIS PAMPHLET AND RETURN TO THE TOWN OF EXETER.

QUESTIONNAIRE

NAME: _____

ADDRESS: _____

EMAIL: _____

PHONE: _____

PLEASE REVIEW THE SCHEMATIC ON THE REVERSE OF THIS PAMPHLET FOR ADDITIONAL INFORMATION AND COMPLETE THE FOLLOWING QUESTIONNAIRE:

**1. DO YOU HAVE A SUMP PUMP (CIRCLE ONE)?
YES OR NO**

IF YES, WHERE DOES IT DISCHARGE (CHECK ALL THAT APPLY):

- Onto ground outside
- Basement sink
- Cellar floor drain
- Basement sewer pipes
- Other _____

2. DO YOU HAVE ANY OF THE FOLLOWING CONNECTED TO THE SEWER (CHECK ALL THAT APPLY)?

- Floor drain
 - Foundation Drain
 - Yard Drain
 - Roof Drain
 - Gutters w/ Downspouts
 - Sump Pumps
- Comments _____

3. HAVE YOU EXPERIENCED?

- Odors
- Flooded Basement
- Sewer Backups
- Sewer Pipes Clogged
- Other _____

**4. WOULD YOU LIKE A TOWN REPRESENTATIVE TO ASSIST YOU WITH THE COMPLETION OF THIS QUESTIONNAIRE OR OTHER TECHNICAL ASSISTANCE?
YES OR NO**

5. DO YOU NOTICE DRAINAGE ISSUES IN YOUR NEIGHBORHOOD? IF SO PLEASE MARK UP THE AERIAL PHOTO SHOWING WHERE AND PROVIDE ADDITIONAL COMMENTS.

ADDITIONAL COMMENTS

Use additional paper if needed



Survey Results
Westside Drive Planning
October 2020

House number	street name	Name1	Name2	Name	phone	email	Online or mailed?	2. Sump pump Y/N	3. Discharge location?	4. Connections to sewer?	5. sewer/drainage problems?	6. Contact y/n	7. drainage issues?
1	Blanche Lane	MACDONALD CHRISTOPHER	MACDONALD DANIELLE										
2	Blanche Lane	HARDENBOOK ADAM	HARDENBOOK LISA										
3	Blanche Lane	FEDELSKI KAREN											
4	Blanche Lane	MCKINSTRY SAVANNAH	MCKINSTRY MICHAEL	Michael McKinstry	6035835739	mjmckinstry@gmail.com	Online	y	Onto ground outside	N/A	flooded basement	n	Yes. There are a couple areas along Westside Drive where water pools across the whole road after storms, and many large potholes in these areas that return each year, despite patching. The portion of Westside Dr. behind Laperle also has a lot of brown rust color staining, not sure if this is due to a water/drainage issue or something else.
5	Blanche Lane	CORNELIUS DANIEL & ANGELA											
230	Front St	SABATOS ALENA	LINGLEY GREGORY										
1	Laperle Ave	DEOLIVEIRA SCHELLAS J	DEOLIVEIRA KARI										
2	Laperle Ave	O'MALLEY KAREN	STOWE DAVID										
3	Laperle Ave	BELTON KEVIN											
4	Laperle Ave	CHICHESTER LISA & DARRELL											
4	Laperle Ave	PETTORUTO JOHN											
6	Laperle Ave	PEREIRA JOSEPH	FINOCCHIO KATRINA										
1	Scammon Lane	PATRICKO JUDY											
2	Scammon Lane	OSTROFF SAM	OSTROFF MONIKA										
3	Scammon Lane	BARBIN DOUGLAS		Douglas & Robin Barbin	603-772-6866	robinbarbin@comcast.net	mailed	n	N/A	floor drain, found	sewer backups, sewer pipes clogged (approx. 30 years ago, 1 time)	n	After the drainage is repaired the streets really need to be paved over and the sidewalks (if one would call them that" should be removed - most of them are horrendous.
4	Scammon Lane	SWEENEY JOHN											
5	Scammon Lane	LEONARD MICHAEL											
6	Scammon Lane	MOREAU DAVID F											
7	Scammon Lane	BAKER DEBRA & ROBERT		Robert/Debra Baker	6039446584	double.h@comcast.net	Online	Y	Sewer pipes	sump pump	flooded basement	N	Yes, throughout the entire Neighborhood, including standing water. Obviously catch basins only designed to evacuate road drainage at perimeter, No drainage for center streets/yards causing groundwater to puddle/pond on streets and underground. No route for groundwater (above basement floors even in August) to evacuate to river, and unable to be absorbed easily in high water:stormy months. Only option to pump into sewer to evacuate. No opportunity to dig a dry well to pump to since water table only 12-24" below ground, and above basement floor. Like constantly bailing out a rowboat. Feel free to contact me for further discussion thank you Robert Baker
8	Scammon Lane	SWEENEY GEORGE											
9	Scammon Lane	HALLETT GEORGE		George Hallett	(603)772-8427	george_hallett@yahoo.com	Online	y	Sewer pipes	sump pump	flooded basement	n	The whole housing project has very bad drainage the sub pumps run year round all the time the water levels are high
2	Silvio Drive	WILLETT ELAINE											
3	Silvio Drive	KELLY JOHN											
4	Silvio Drive	SMITH DOUGLAS	GOUDREAU CHERYL										
5	Silvio Drive	HADLEY JEFFREY	HADLEY TARA	Tara Hadley	N/A	N/A	Online	N	N/A	N/A	N/A	N	N/A
6	Silvio Drive	GIANG PLANKONE											
7	Silvio Drive	HELLIESEN WALTER		Walter Helliessen	6036866752	whelliessen@gmail.com	Online	y	Onto ground outside	N/A	flooded basement	n	*The loop area of Westside drive #67 to 79 is always wet with water running from the high (odd) side downhill to the even side. *There is a drain between #2 and #4 Laperle that creates ice issues all winter. *In general, during the 1994 reconstruction of our neighborhood, the height of the road was increased to such a point that many houses that had never had water in their basements needed to have sump pumps. We ended up blocking off our garage as it was now below grade level and water would flow in off the street. Many areas of curbing disappeared as the street was now higher than the sidewalk. We ended up having to repave our driveway so water flowed away from the house. Thank you for putting this forward on the DPW agenda.
8	Silvio Drive	PITTENDREIGH MARK											
1	Tilton Ave	METZ NICHOLAS JAMES											
2	Tilton Ave	LUKER KAITLIN											
2	Tilton Ave	MARTIN PAUL											
3	Tilton Ave	GOVE DANIEL											
4	Tilton Ave	KING LORI											
5	Tilton Ave	WALKER PAUL H		Paul Walker	6037788469	pwalker02@hotmail.com	Online	Y	Sewer pipes	y	N/A	n	i have not.
6	Tilton Ave	PEARCE JOSEPH											
7	Tilton Ave	TERANDO JOHN											
7	Tilton Ave	STUER ERIK											
8	Tilton Ave	ALLEN MELISSA	STEPHEN MARSHAL										
1	Westside Dr	TOUSIGNANT DARLENE		Darlene Tousignant	603-778-7010	dtousignant@myfairpoint.net	mailed	n	N/A	N/A	none	n	1 Westside driveway floods from runoff of Westside D every time it rains - it puddles water gets under driveway - town repaved once after putting in a runoff to river - it needs to be paved again.
3	Westside Dr	GRAY BRIAN T	GRAY CASSANDRA A										
3	Westside Dr	TOUSIGNANT DARLENE											
4	Westside Dr	OLIVIER PATRICIA											
5	Westside Dr	STEELE GLEN											
6	Westside Dr	LEAR CHESTER & BARBARA											
7	Westside Dr	BLAIS ARTHUR & SHANNON		Shannon & Arthur Blais	6035607244	sablais0516@gmail.com	Online	N	N/A	N/A	Flooded basement - Prior to purchasing home in December 2019, under previous ownership. Prior owners disclosed basement flooded from the "Mother's Day Flood" in 2006. Clogged sewer pipes - During inspection of home for purchase in December, camera in sewer pipes revealed heavy "sludge" in pipes. Recent work in August occurred to both indoor/outdoor pipes leading to sewer system. Work was approved by Town and completed by plumber and excavator who were bonded to the Town.	n	No but have only been here since December 2019.
8	Westside Dr	COOMBS ANNE M											
9	Westside Dr	MATTERA TREVOR & KATHERINE											
11	Westside Dr	GARDNER JOSEPH	GARDNER GINA										
12	Westside Dr	MANIX RICHARD											
13	Westside Dr	PORCH JAMES											
13	Westside Dr	OUELLETTE MARK											
15	Westside Dr	STAGNONE PHILIP & MEGAN		Megan Stagnone	N/A	meganstagnone@gmail.com	Online	Y	Onto ground outside	N/A	Clogged sewer pipes	N	Yes, corner of Tilton and westside drive near #1 Tilton flooding, backside loop #76 flooding Road. Drain line between 15 & 17 appears to be broken and up on an angle

Appendix C
Neighborhood Meeting #1

Westside Drive Area Improvements Planning Town of Exeter, NH

Public Information & Input Meeting



October 28, 2020

1

1

Introductions

Panelists and Project Team

- Town of Exeter
 - Paul Vlasich, PE – Town Engineer
 - Jennifer Mates, PE – Asst. Town Engineer/Project Manager
- Underwood Engineers
 - Keith A. Pratt, PE - President
 - Cole S. Melendy, PE – Project Manager
 - Erik B. Nichols – Project Engineer



2

Agenda

1. Background
2. Project Goals
3. Project Scope and Approach
4. Work Accomplished to Date
5. Public Information
6. Schedule
7. Contacts
8. Public Participation (Questions and Input)



3



4

Background

- Phase III Infiltration and Inflow Evaluation (2013)
- CSO Long Term Control Plan Update (2017)

TOWN OF EXETER,
NEW HAMPSHIRE

DRAFT

PHASE III
INFILTRATION AND INFLOW
EVALUATION

5

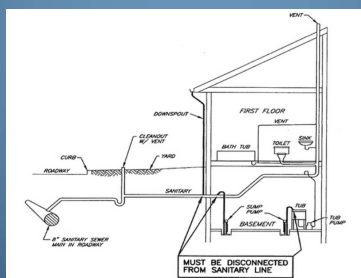
Background

- Combined Sewer Overflows (CSO)
 - Occurs when the sewer’s capacity is exceeded
- CSO Long Term Control Plan (CSO LTCP)
 - Strategic plan for removing stormwater and groundwater from the Town’s sewer collection system.
 - Westside Drive Area identified as an area with significant private I/I and a pilot area for the Town

6

Background

- Private I/I Sources
 - Stormwater systems (sumps/drains) connected to the sewer system
 - Takes up sewer capacity (CSO)
 - Increases WWTF treatment and user costs



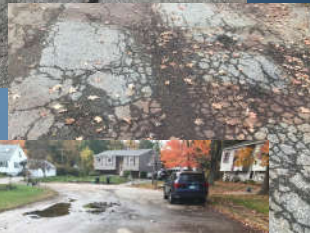
Background

- Project Funding
 - \$100k budget to develop planning documents and conceptual designs for the Westside Drive Area
 - \$75K from NHDES Grants
 - \$25K from Town's sewer maintenance fund

Project Goals

Develop a planning document for the Westside Drive Area to:

- Improve Town utilities and roadways within the neighborhood.
- Improve drainage issues
- Remove groundwater/stormwater from entering the Town's sewer system.
- Solicit input/feedback from residents to incorporate other neighborhood infrastructure improvements



9

Project Scope and Approach

- **Planning Level Scope**
 - Task 1 – Public Participation
 - Task 2 – Mapping and Base Plan Development
 - Task 3 – Subsurface Investigation and Evaluation
 - Task 4 – Basis of Design Planning Document and Conceptual Design Plans for the preferred alternative



10

Public Participation

- **Work completed so far:**
 - Questionnaire and online survey
 - Public Meeting (Happening Right Now!)
- **Questionnaire results and Public Forum at the end of Presentation**



11

Field Work

- **Work completed so far:**
 - Surveyors collected data around the neighborhood the week of October 12th
 - Groundwater monitoring wells were installed October 13th
 - Soil and road subbase samples taken October 13th



12

Public Engagement Meeting Listening Session

- Summarize Needs
- Blank Slate Engage Public to Collect Ideas
 - Drainage improvements
 - Utility Improvements
 - Pedestrian Safety?
 - Problem areas?

**Benefit is that
most of the effort
is completed after
public input**



13

Upcoming and Continuing Work

- **Work Coming Up:**
 - House Inspections to identify sump and drain discharge locations (~22 Houses)
 - Begins October 29th
 - Review data collected from Public Input, field investigations and House inspections.
 - 2nd Public Meeting to present project findings
 - **Develop planning document based on data collected and public input.**




14

Public Information and Involvement



15

Questionnaire



**WESTSIDE DRIVE
AREA
QUESTIONNAIRE**

PLEASE FILL OUT THIS PAMPHLET AND RETURN TO THE TOWN OF EXETER.

QUESTIONNAIRE

NAME: _____
 ADDRESS: _____
 EMAIL: _____
 PHONE: _____

PLEASE REVIEW THE SCHEMATIC ON THE REVERSE OF THIS PAMPHLET FOR ADDITIONAL INFORMATION AND COMPLETE THE FOLLOWING QUESTIONNAIRE:

1. DO YOU HAVE A HUMP PUMP (CIRCLE ONE)?
 YES OR NO

IF YES, WHERE DOES IT DISCHARGE (CHECK ALL THAT APPLY):
 Onto ground outside Basement sink
 Collar floor drain Basement sewer pipes
 Other _____

2. DO YOU HAVE ANY OF THE FOLLOWING CONNECTED TO THE SEWER (CHECK ALL THAT APPLY)?
 Floor drain Foundation Drain Yard Drain
 Roof Drain Gutters w/ Downspouts Sump Pumps
 Comment: _____

3. HAVE YOU EXPERIENCED?
 Odors Flooded Basement Sewer Backups
 Sewer Pipes Clogged Other _____

4. WOULD YOU LIKE A TOWN REPRESENTATIVE TO ASSIST YOU WITH THE COMPLETION OF THIS QUESTIONNAIRE OR OTHER TECHNICAL ASSISTANCE?
 YES OR NO

5. DO YOU NOTICE DRAINAGE ISSUES IN YOUR NEIGHBORHOOD? IF SO PLEASE MARK UP THE AERIAL PHOTO SHOWING WHERE AND PROVIDE ADDITIONAL COMMENTS.



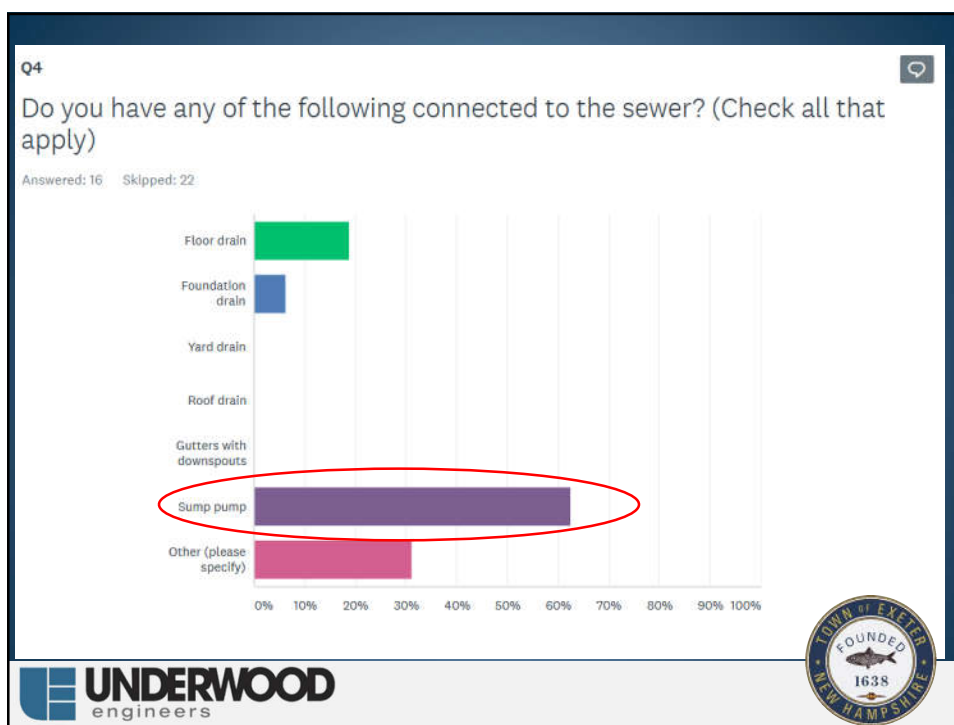
16

Questionnaire Responses

- Thank you!
- Total of 38 Responses Received so far
 - 68% have sump pumps
 - 30% are believed to discharge to sewer
 - 42% are believed to have some kind of connection to the sewer
 - Sumps
 - Floor Drains
 - Roof Drains
 - Etc.

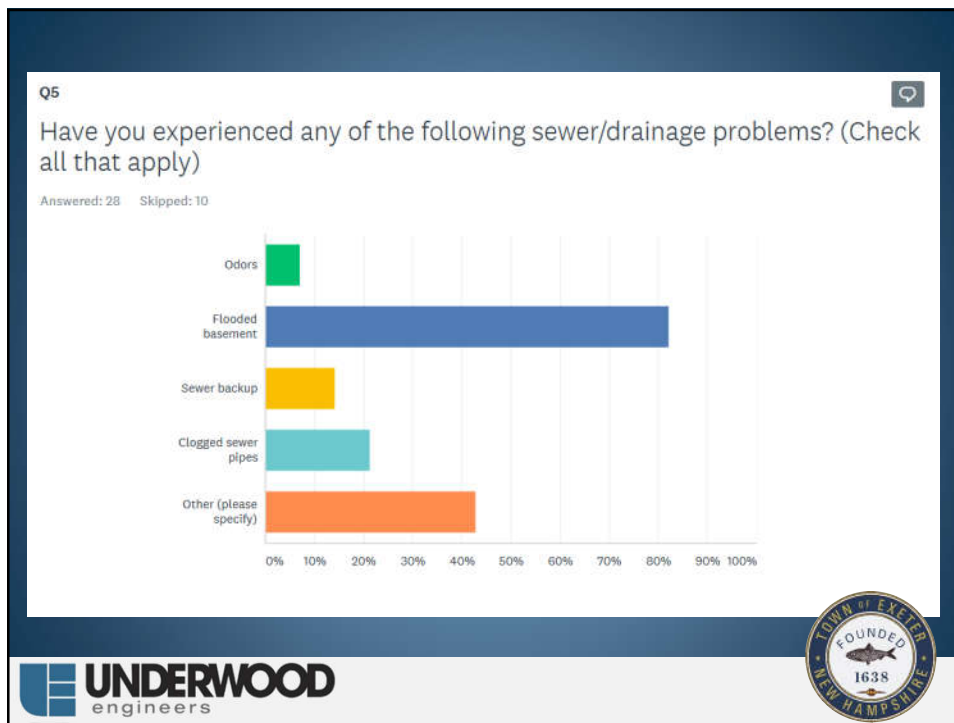


17



18







19

Ongoing Public Info

- UE will establish a priority list based on public input.
- Please go to the Town's website:
<https://www.exeternh.gov/publicworks/westside-drive-area-utility-improvement-project>



20

Schedule

- **Project Schedule**

- House Inspections Begin Oct. 29th
- Ongoing Public Information Winter 2020/2021
- Incorporate input and develop planning document Winter 2020/2021
- 2nd Public Meeting to present findings Spring 2021

TBD

- Final Design FY 2022
- Possible Construction FY 2023



21

Contacts

Town of Exeter

Jennifer Mates, PE
Assistant Town Engineer and Project Manager
13 Newfields Rd.
(603) 418-6431
jmates@exeternh.gov

Underwood Engineers



Cole S. Melendy, PE
Project Manager
(603) 436-6192
cmelendy@underwoodengineers.com



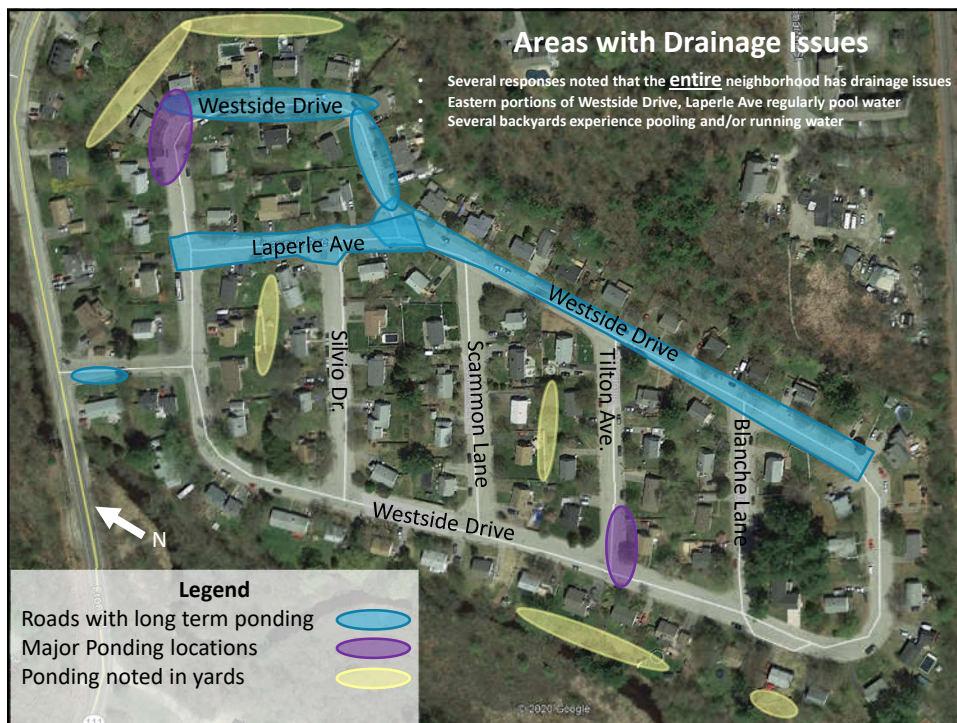
22

Public Input

(To date)



23



24

Public Input

Questions

New Input





Rust stains on Westside Drive

Cottage Street (~15 higher), Stormwater and pipes broken?

Sidewalks not necessarily needed. (7)

3-5" ice due to ponding.

Ponding typical in non drought years

Highwater year round, sumps running constantly/often

Soggy backyards, and stormwater runoff damaging fences

StormDrain clogs and creates ponding

Highwater year round, sumps running constantly/often

Stormwater Flow

StormDrain clogs and creates ponding

Blind corner for traffic, SW needed possibly

Stormwater runoff flows to driveway

Wet basement

Stormwater runoff flows to driveway

Stormdrain appears broken, causing sinkhole in back yard

Ponding regular, check on 19,21

Sewer services rooted, vc pipes maybe broken, l/I

Legend

Drainage Issues

Appendix D
Neighborhood Meeting #2

Westside Drive Area Improvements Planning Town of Exeter, NH

Public Information & Input Meeting #2



September 20, 2021

1

1

Introductions

Panelists and Project Team

- Town of Exeter
 - Paul Vlasich, PE – Town Engineer
 - Jennifer Mates, PE – Asst. Town Engineer/Project Manager
- Underwood Engineers
 - Keith A. Pratt, PE - President
 - Cole S. Melendy, PE – Project Manager
- NH Department of Environmental Services
 - Deborah Loiselle – Stormwater Coordinator



2

Agenda

1. Background
2. Project Goals
3. Project Scope and Approach
4. Public Information
5. Conceptual Plans
6. Next Steps and Contacts
7. Public Participation (Questions and Input)



3



4

Background

- Phase III Infiltration and Inflow Evaluation (2013)
- CSO Long Term Control Plan Update (2017)

TOWN OF EXETER,
NEW HAMPSHIRE

DRAFT

PHASE III
INFILTRATION AND INFLOW
EVALUATION

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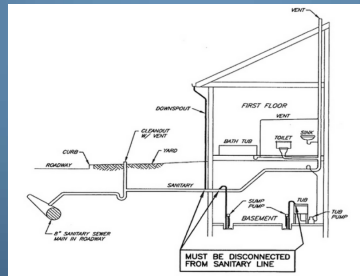
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- Combined Sewer Overflows (CSO)
 - Occurs when the sewer’s capacity is exceeded
- CSO Long Term Control Plan (CSO LTCP)
 - Strategic plan for removing stormwater and groundwater from the Town’s sewer collection system.
 - Westside Drive Area identified as an area with significant private I/I and a pilot area for the Town

6

Background

- Private I/I Sources
 - Stormwater systems (sumps/drains) connected to the sewer system
 - Takes up sewer capacity (CSO)
 - Increases WWTF treatment and user costs



Background

- Project Funding
 - \$100k budget to develop planning documents and conceptual designs for the Westside Drive Area
 - \$75K from NHDES Loan (with principal forgiveness)
 - \$25K from Town’s sewer maintenance fund



Project Goals

Develop a planning document for the Westside Drive Area to:

- Improve Town utilities and roadways within the neighborhood.
- Improve drainage issues
- Remove groundwater/stormwater from entering the Town's sewer system.
- Solicit input/feedback from residents to incorporate other neighborhood infrastructure improvements



9

Project Scope and Approach

- **Planning Level Scope**
 - Task 1 – Public Participation
 - Task 2 – Mapping and Base Plan Development
 - Task 3 – Subsurface Investigation and Evaluation
 - Task 4 – Basis of Design Planning Document and Conceptual Plans for the preferred alternative



10

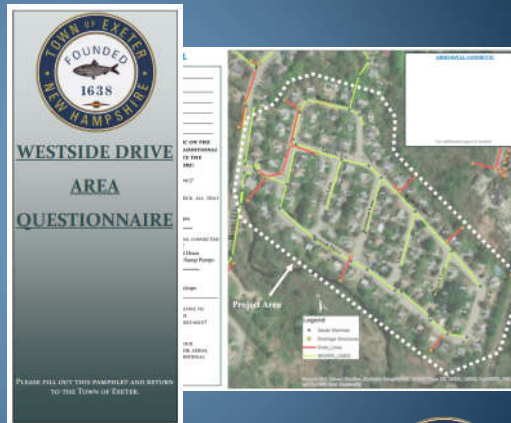
Public Information and Involvement



11


Public Participation

- **Work completed so far:**
 - Questionnaire and online survey
 - Public Meeting #1 (October 28, 2020)
 - Public Meeting #2 (Happening Now)



12

Questionnaire



**WESTSIDE DRIVE
AREA
QUESTIONNAIRE**

PLEASE FILL OUT THIS PAMPHLET AND RETURN TO THE TOWN OF EXETER.

QUESTIONNAIRE

NAME: _____
ADDRESS: _____
EMAIL: _____
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PLEASE REVIEW THE SCHEMATIC ON THE REVERSE OF THIS PAMPHLET FOR ADDITIONAL INFORMATION AND COMPLETE THE FOLLOWING QUESTIONNAIRE:

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YES OR NO

IF YES, WHERE DOES IT DISCHARGE (CHECK ALL THAT APPLY):
 On to ground outside Basement sink
 Collar floor drain Basement sewer pipes
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 Floor drain Foundation Drain Yard Drain
 Roof Drain Gutters w/ Downspouts Sump Pumps
Comments: _____


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 Odors Flooded Basement Sewer Backups
 Sewer Pipes Clogged Other _____



4. WOULD YOU LIKE A TOWN REPRESENTATIVE TO ASSIST YOU WITH THE COMPLETION OF THIS QUESTIONNAIRE OR OTHER TECHNICAL ASSISTANCE?
YES OR NO

5. DO YOU NOTICE DRAINAGE ISSUES IN YOUR NEIGHBORHOOD? IF SO PLEASE MARK IF THE AERIAL PHOTO SHOWING WHERE AND PROVIDE ADDITIONAL COMMENTS.

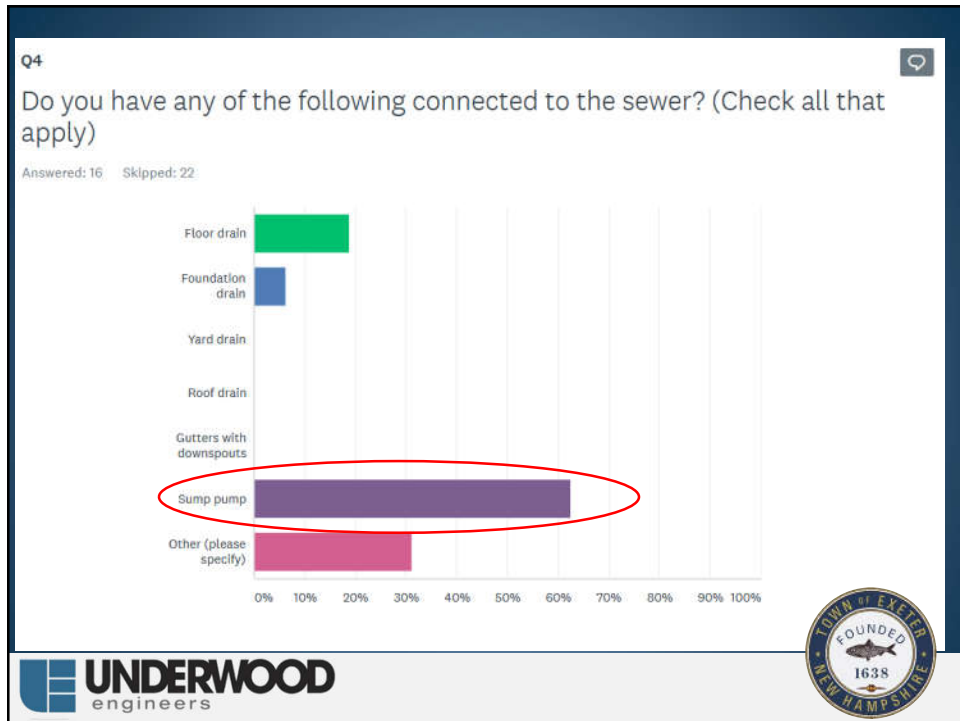
ADDITIONAL COMMENTS

(Use additional paper if needed)

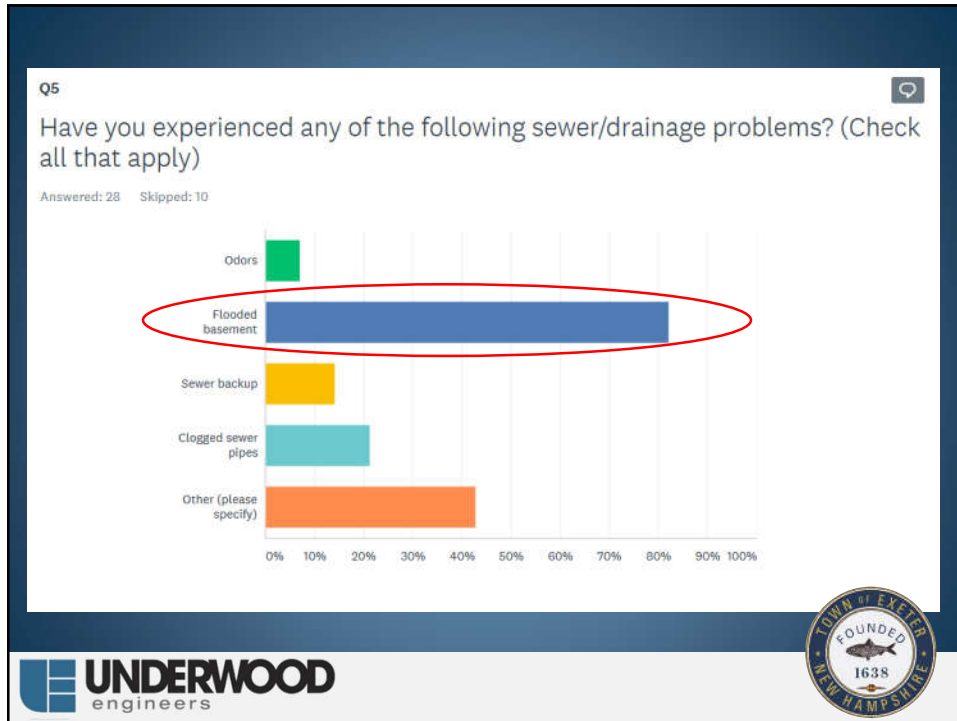




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14



15

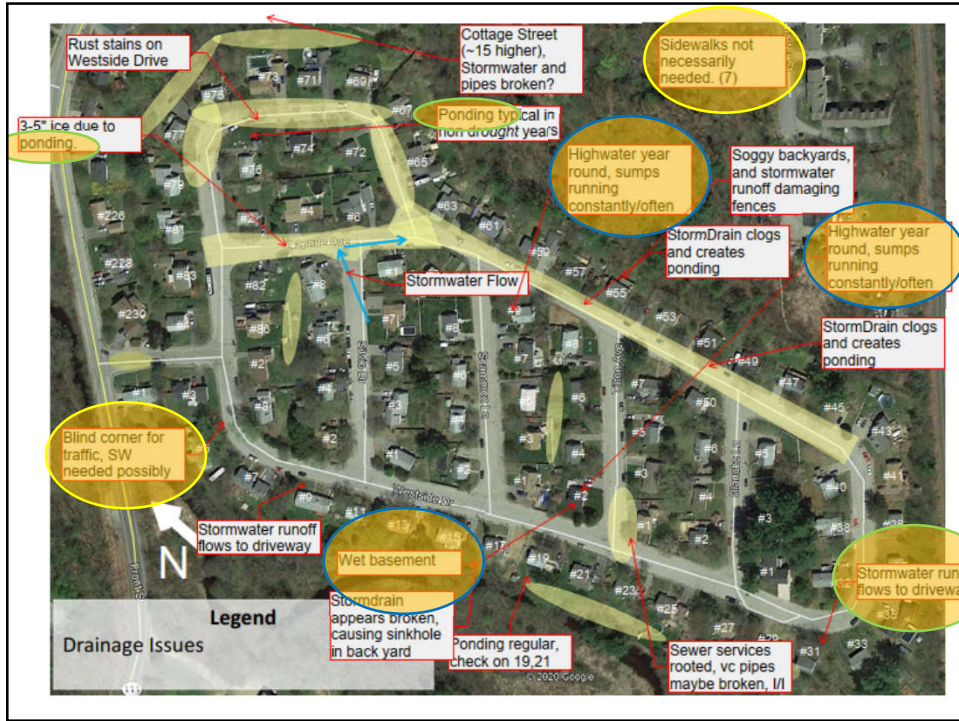
Public Engagement Meeting Listening Session #1

- October 28, 2020
- Blank Slate Engage Public to Collect Ideas:
 - Sump Pumps
 - Drainage Issues
 - Pedestrian Safety

Benefit is that most of the effort is completed after public input



16



17

Proposed Project – Main Components

- Water Main Replacement
- Drainage Improvements and Sump Pump Mitigation
- Roadway Improvements

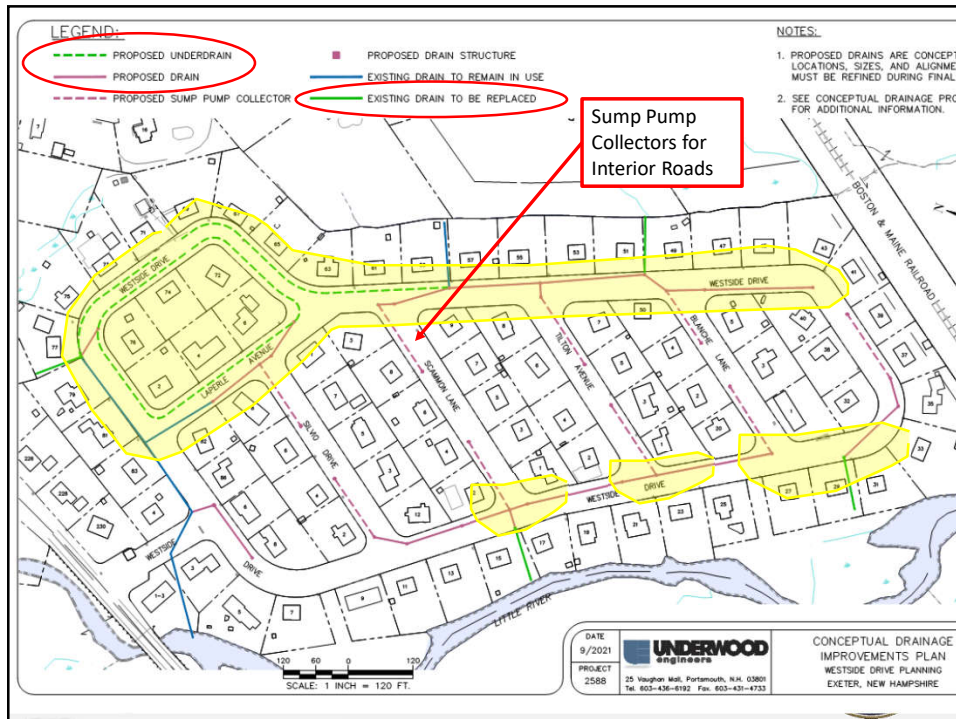



18

Conceptual Drainage Improvements



21



22


Conceptual Roadway Improvements



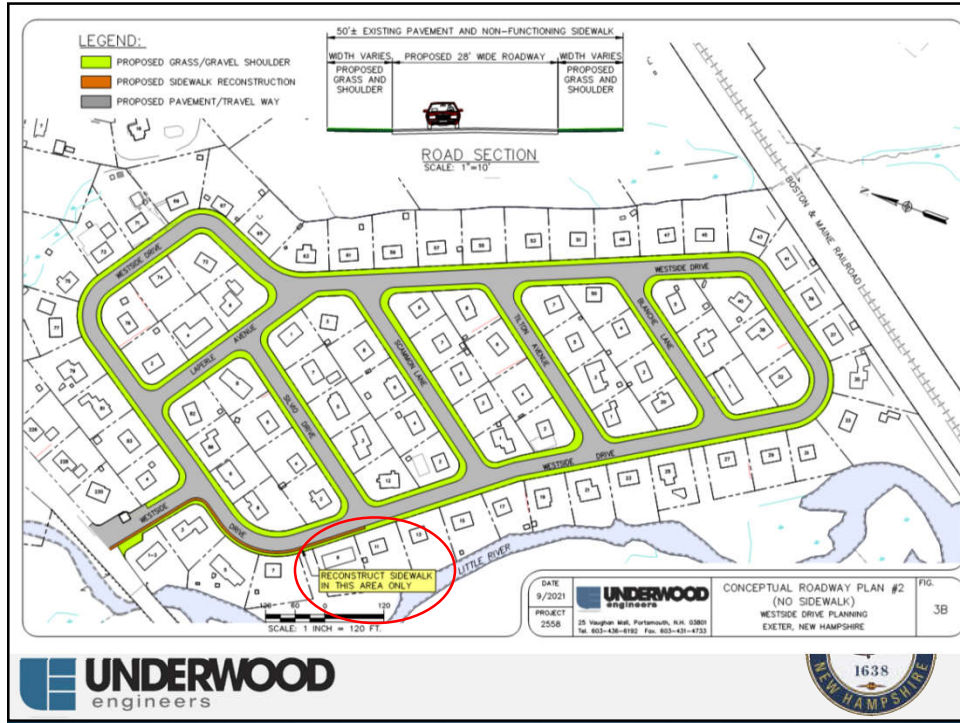
23

Roadway Improvements Considerations

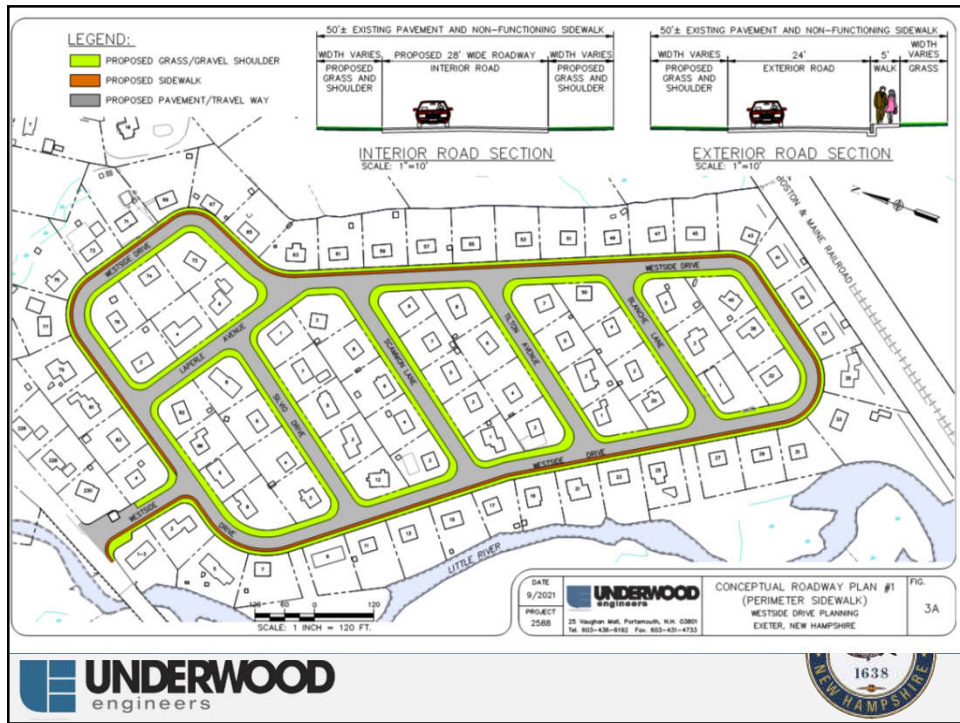
- Reduced impervious area (pavement)
 - Environmental benefits
 - Improves drainage
 - Improves aesthetics
 - Traffic calming
- Pedestrian/Sidewalk Considerations



24



25



26

Ongoing Public Info

- Please go to the Town’s website:

<https://www.exeternh.gov/publicworks/westside-drive-area-utility-improvement-project>



28

Schedule

- **Project Schedule**

- | | |
|---------------------------------|-------------|
| – Finalize planning document | Fall 2021 |
| – Possible Warrant Article Vote | Spring 2022 |
| TBD | |
| – Final Design | FY 2022 |
| – Possible Construction | FY 2023 |



29

Contacts

Town of Exeter

Jennifer Mates, PE
Assistant Town Engineer and Project Manager
13 Newfields Rd.
(603) 418-6431
jmates@exeternh.gov

Underwood Engineers

Cole S. Melendy, PE
Project Manager
(603) 436-6192
cmelendy@underwoodengineers.com



30

Public Input

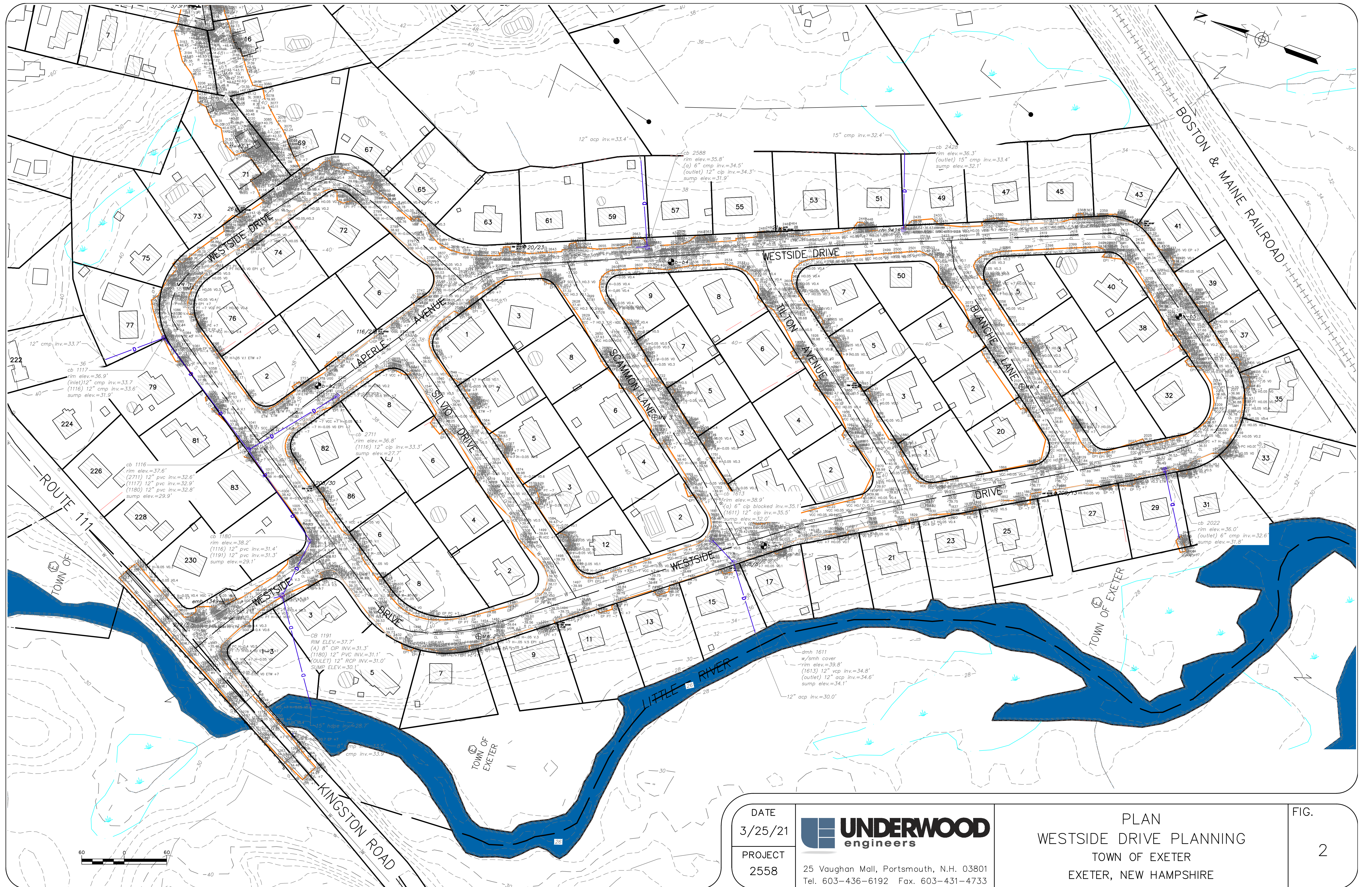
Questions

New Input



31

Appendix E
Raw Base Plan



DATE
3/25/21

PROJECT
2558

UNDERWOOD
engineers

25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

PLAN
WESTSIDE DRIVE PLANNING
TOWN OF EXETER
EXETER, NEW HAMPSHIRE

FIG.
2

Appendix F
Geotech Report



R.W. Gillespie & Associates, Inc.

Geotechnical Engineering • Environmental Consulting • Materials Testing Services

28 December 2020

Erik B. Nichols, Project Engineer
Underwood Engineers, Inc.
25 Vaughan Mall, Unit 1
Portsmouth, New Hampshire 03801

Subject: Geotechnical Engineering Evaluation
Westside Drive Area Infrastructure Improvement Project
Exeter, New Hampshire
RWG&A Project No. 0515-187

Dear Mr. Nichols:

R. W. Gillespie & Associates, Inc. (RWG&A) is pleased to provide the attached geotechnical engineering evaluation for the Westside Drive Area Infrastructure Improvement Project to be built in Exeter, New Hampshire. This evaluation was undertaken in general accordance with the Subconsultant Agreement for Professional Services between Underwood Engineers, Inc. (UE) and RWG&A, authorized by UE on 23 September 2020.

RWG&A appreciates the opportunity to be of service and has enjoyed working with UE on this project. If you have any questions or if we may be of further service, please contact us.

Sincerely,
R. W. GILLESPIE & ASSOCIATES, INC.

Marc R. Grenier, P.E.
Senior Geotechnical Engineer

MRG:sf

Submitted in duplicate and via email in Adobe PDF format

G:\PROJECTS\0500\0515\0515-187\Report\2020-12-28 GI Report 0515-187.docx

R.W. Gillespie & Associates, Inc.

**Report
of**

GEOTECHNICAL ENGINEERING EVALUATION

for

**WESTSIDE DRIVE AREA INFRASTRUCTURE IMPROVEMENT PROJECT
EXETER, NEW HAMPSHIRE**

**Prepared
for**

**UNDERWOOD ENGINEERS, INC.
PORTSMOUTH, NEW HAMPSHIRE**

**Prepared
by**

**R. W. GILLESPIE & ASSOCIATES, INC.
NEWINGTON, NEW HAMPSHIRE**



**Marc R. Grenier, P.E.
New Hampshire P.E. Serial No. 10615**

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 1.01 Scope of Services 1
2.0 PURPOSE 2
3.0 SUBSURFACE EXPLORATIONS 2
4.0 LABORATORY TESTING 2
5.0 SUBSURFACE CONDITIONS 3
 5.01 Subsurface Soils 3
 5.02 Groundwater 3
6.0 EVALUATION OF GEOTECHNICAL DATA 4
 6.01 General 4
 6.02 Proposed Construction 4
 6.03 Reuse of Existing Materials 4
 6.04 Pavement Design Considerations 4
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 7.04 Temporary Excavations 7
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FIGURES

- Figure 1, Locus Map
- Figure 2, Exploration Location Plan

APPENDIXES

- Appendix A, Limitations
- Appendix B, Exploration Logs
- Appendix C, Laboratory Test Results

1.0 PROJECT DESCRIPTION

The proposed project consists of improvements to the Westside Drive area in Exeter New Hampshire, which includes Westside Drive, Laperle Avenue, Silvio Drive, Scamman Lane, Tilton Avenue and Blanche Lane. The improvements are anticipated to include new drainage to manage surface and ground water and reconstruction of roadways. The location of the project is illustrated on Figure 1, *Locus Map*. It is understood that the existing streets experience drainage problems attributed to shallow groundwater. It is anticipated that finished grades would be similar to current road surface and the road reconstruction would be either partial or full-depth.

R.W. Gillespie & Associates, Inc.'s (RWG&A's) understanding of the proposed construction is based on communications with you and review of information provided via email on 15 September 2020, which included Figure X, *Westside Drive Kick-Off Meeting*, dated 02 September 2020, which indicates the project's limits and existing public utilities.

1.01 Scope of Services

This geotechnical evaluation was performed to develop site-specific field and laboratory soil data to make geotechnical evaluations for the Westside Drive Area Infrastructure Improvement Project in Exeter, New Hampshire. RWG&A's services were performed in general accordance with RWG&A Proposal No. P-10573GI, dated 16 September 2020. Refer to Appendix A for use and limitations of this report. As performed, RWG&A's scope of services included the following items:

- Reviewed project information and readily available published subsurface information and geologic mapping.
- Reviewed the geotechnical subsurface exploration and sampling program prepared by UE to obtain subsurface information for use in geotechnical evaluations.
- Marked out boring locations in the field prior to drilling. Contacted DigSafe to verify planned exploration locations were clear of underground utilities.
- Arranged to have the explorations made and observation wells installed by a drilling company as a subcontractor to RWG&A. Provided technical monitoring of the exploration activities so that depth, location, and sampling methods could be modified in response to subsurface conditions encountered.
- Performed laboratory tests on soil samples recovered from the subsurface explorations to aid in soil description, and for determination of engineering properties needed for engineering evaluations.
- Evaluated acquired field, office, and laboratory data with respect to the proposed road reconstruction. Emphasis was placed on pavement sections, pavement section drainage, temporary excavation support, subgrade preparation, groundwater control, excavation and backfill, and depth of freezing.

- Prepared this report of geotechnical evaluation presenting the findings, conclusions, and recommendations for design and construction.

2.0 PURPOSE

This evaluation has been limited to consideration of the geotechnical aspects of the proposed Westside Drive Area Infrastructure Improvement Project in Exeter, New Hampshire. The primary purpose of RWG&A's services was to explore subsurface conditions along the existing roads and to evaluate how the encountered conditions might affect drainage, earthwork and roadway reconstruction. In particular, this report identifies geotechnical criteria and construction considerations intended to assist engineers that will design the project and monitor its construction.

3.0 SUBSURFACE EXPLORATIONS

Explorations made for this geotechnical evaluation consisted of nine sampled soil borings designated MW-1 through MW-4, B-2, B-4, B-5, and B-7. The exploration locations and designations were selected by UE. The explorations were drilled on 13 October 2020 by Northern Test Boring, of Gorham, Maine using a track-mounted drill rig. The approximate exploration locations are illustrated on Figure 2, *Exploration Location Plan*. The as-drilled boring locations were marked in the field for survey location by the project surveyor.

The explorations were advanced with solid stem augers to depths of about 9 to 10.5 feet below local ground surface. In general, split-barrel sampling with standard penetration testing was performed continuously in the test borings. The samples were taken in accordance with *ASTM D1586, Standard Test Method for Penetration Test and Split-Barrel Sampling of Soils*. Grab samples of existing base material were obtained from auger cuttings in the upper 1 foot of material at select boring locations. Groundwater observation wells were installed at the locations designated MW-1 through MW-4. Please refer to Appendix B for details of the observation wells.

Exploration activities were coordinated by RWG&A. Soils were visually described in accordance with *ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*. Logs of the explorations are attached as Appendix B, *Exploration Logs*. Stratification lines shown on the exploration logs represent the interpreted boundaries between the different soil types; the actual transitions may be gradual and vary over short distances.

4.0 LABORATORY TESTING

Laboratory testing consisting of 8 particle-size analyses with natural moisture content determinations was performed on representative samples of base material recovered from the explorations. Particle-size distribution curves are presented in Appendix C, *Laboratory Test*

Results. Moisture content test results are shown on the exploration logs. The tests were performed in general accordance with the following methods and procedures:

- *ASTM D2216 – 19, Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass.*
- *ASTM D6913/6913M – 17, Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis.*

The above tests were conducted at the RWG&A soil and materials testing laboratory in Biddeford, Maine, which is accredited by the American Association of State Highway and Transportation Officials (AASHTO) for the tests performed.

5.0 SUBSURFACE CONDITIONS

5.01 Subsurface Soils

In general, the conditions encountered in the explorations consisted of asphalt pavement over fill underlain by naturally deposited soils. Naturally deposited soils varied by location, consisting of sands, silts and clays. An organic deposit was observed in MW-1 from 2 to 5 feet below ground surface. Refer to the Appendix B, *Exploration Logs*, for information about subsurface conditions at specific locations.

Asphalt: Measured pavement thicknesses varied from about 2 to 8 inches. The asphalt pavement was underlain by base materials at each boring location.

Base Materials: The base materials directly below the pavement generally consisted of silty sand with sub-rounded to sub-angular gravel. The base material thickness ranged from about 5 to 36 inches.

Subgrade Soil: The materials encountered below the fill consisted of naturally deposited soils consisting of silt and clay with varying amounts of sand. Peat and organic deposits about 2 to 2.5 feet thick were observed below the fill at MW-1 and B-4 and 2 to 4-inch thick layers of organic matter was observed in naturally deposited materials in boring B-2. The naturally deposited silts and sand were described as very loose to medium dense and the naturally deposited clays were medium stiff to stiff. The naturally deposited soils extended to the boring termination depths

5.02 Groundwater

Free water was observed in most of the explorations at depths ranging from about ground surface to a depth of about 9.3 feet below local ground surface at the time of drilling. The absence of free water data on the exploration logs implies free water was not observed during these explorations but does not necessarily mean that groundwater would not be encountered at these locations and at the depths explored in the future. Groundwater levels will fluctuate due to season, snowmelt, temperature, rainfall, nearby utilities, and construction activity on the area; therefore, water levels during and following construction will vary from those observed in the explorations.

6.0 EVALUATION OF GEOTECHNICAL DATA

6.01 General

Engineering evaluations for this project are based on the subsurface explorations, laboratory testing, and the design information currently available to RWG&A. The engineering evaluations that follow should be reviewed by RWG&A to confirm their continued applicability should the project design be modified.

6.02 Proposed Construction

Based on discussions with UE, it is understood that the Town of Exeter is planning to construct drainage improvements, either new or replacement of existing drainage, and will be performing either partial or full depth reconstruction of the pavement section. It is anticipated that new and replacement storm drain depth of cover is anticipated to be about 6 feet.

6.03 Reuse of Existing Materials

The gradation test results from base material samples recovered do not meet the requirements of NHDOT Standard Specification *Section 304 Aggregate Base Course* but might meet the requirements of NHDOT Standard Specification *Section 306 Reclaimed Stabilized Base* after pulverizing and mixing with existing asphalt. Particle size distribution test results indicate the gravel fraction of the in-place base would need to be increased by about 20 percent in order to meet *Section 306- Reclaimed Stabilized Base*. It appears that the pulverized asphalt might need to be supplemented with imported NHDOT #467 stone.

It is recommended that test areas be selected and pulverized during construction. The blend from the test areas should be tested and evaluated for conformance with the project technical specifications and to determine whether additional materials (such as crushed stone) are needed to meet material requirements.

6.04 Pavement Design Considerations

Based on RWG&A's experience with the anticipated subgrade and published information, a subgrade resilient modulus value of 3,000 pounds per square inch is recommended for pavement design. Traffic loading was estimated from NHDOT Bureau of Traffic's traffic reports for nearby similar volume roads. The average daily traffic (ADT) for the roadway is estimated to be about 300 to 400 vehicles per day and 2% truck traffic was used for the evaluation.

AASHTO methods for flexible pavement design were used to evaluate the planned pavement section. An initial pavement serviceability index of 4.5 for new pavement, a terminal pavement serviceability index of 2.5, and 20-year service life were used in the evaluations. A pavement serviceability index, which is an indicator of the level of service provided to users and is related to cracking, patching, and rut depth. The serviceability index of 2.5 corresponds to 85 percent of drivers/ passengers rating the pavement and ride condition as unacceptable. UE should verify the

traffic loading, service life, and terminal serviceability index used in the evaluations are appropriate and notify RWG&A if modifications are needed.

Depth of freezing for the area was calculated with the ModBerg Version 99.2.0 computer program. The design air freezing index is about 1,046 Fahrenheit degree - days. The calculated depth of freezing for snow free condition is 56 inches (Note: 4.7 feet).

Full depth frost protection of pavements would require a total pavement section of about 56 inches, which would be cost prohibitive. Thinner pavement sections, including reinforced sections, are considered more frost-susceptible than thicker sections constructed of the same non-frost susceptible materials. It is typical practice in the New England region to provide partial depth frost protection for pavements with the expectation that some frost heaving will occur.

7.0 RECOMMENDATIONS

7.01 Site Preparation

1. It is anticipated the existing roadway section and base gravel would be reclaimed and used as embankment fill below the planned pavement section. Depending on the actual reclaimed asphalt concrete gradation, the reclaimed material might be suitable for reuse in lieu of the crushed gravel base course. Embankment fill and reclaimed asphalt concrete should be placed and compacted in accordance with current NHDOT requirements.
2. A peat layer was encountered between the existing fill and naturally deposited soils at borings B-4 and MW-1. Peat and organic material might be encountered at other locations intermediate of boring locations. Where in-situ fill is present at design subgrade level, test pits should be dug through the fill and into naturally deposited soil to verify the absence of topsoil, peat, and organic material. Where encountered within 6 feet of subgrade level, all topsoil and organic matter should be removed below the design pavement section horizontal limits and replaced with compacted sand course materials.
3. It is recommended the pavement section subgrade be compacted by several passes with a smooth drum roller and a thorough evaluation of the subgrade be undertaken. The evaluation should include proof-rolling of the subgrade area with a loaded tandem axle dump truck weighing not less than 15 tons to aid in identifying soft pockets and areas of excess yielding. Proof-rolling should occur prior to the placement of the subbase course in the pavement section. Proof-rolling may be performed using two passes in the direction of traffic lanes. Soft spots, unsatisfactory soils, areas of excessive pumping, or rutting in excess of 1 inch in depth should be excavated and replaced with suitable compacted fill.

Wet or saturated subgrades should not be proof-rolled. Prior to paving, the exposed subbase or base course should also be proof-rolled. Proof-rolling should not be performed over culverts, pipes, conduits, or other underground construction that might be damaged by the proof-roller.

7.02 Pavement Sections

- 4. The roadway should be provided with the following pavement sections. Flexible pavements were developed using AASHTO design methods. Materials and placement methods should meet the current New Hampshire Department of Transportation requirements. This design conforms with the Town of Exeter minimum section thickness required for road construction.

Component	Thickness in Inches
Surface Course (NHDOT Type 12 mm)	1.5
Binder Course (NHDOT Type 19 mm)	2.5
Crushed Gravel (NHDOT 304.3) or Reclaimed Base (NHDOT 306)	6
Gravel Subbase (NHDOT 304.2)	12
Total	<u>22</u>

7.03 Storm Drain

- 5. Storm drain trench excavations will occur primarily in granular fill and/or naturally deposited soils including silty sands, silts and clays. The fill and sand should generally meet the project plan and technical specification requirements for use as trench backfill. If crushed stone is used to bed and/or cover the storm drain or other new utility pipes (note: or repair utilities damaged by the proposed water main installation), then filter fabric should be wrapped around the crushed stone to separate it from the fill and/or naturally deposited soils.
- 6. At the time of drilling, free water was observed in several of the explorations above anticipated excavation depths. It is recommended that the Contractor observe water levels along the alignments just prior to construction with test pits to assess dewatering requirements.
- 7. Construction dewatering should be provided as-needed to reduce disturbance of the subgrade soils and instability of the excavations, and to complete the work in-the-dry. In RWG&A’s opinion, construction dewatering with open pumping and sumps should be practicable if free water is less than about 1 to 2 feet above the bottom of the trench excavation at the time of construction. If excavations extend to greater depths below free water, then predrainage with wells or wellpoints might be necessary to maintain stability of the excavations, and to help ensure proper pipe bedding and reduce post-construction settlement of trench backfill.

Dewatering requirements will vary depending upon groundwater levels encountered during construction, and the predominant soil exposed on the sides and bottom of excavations. It should be anticipated that excavations might encounter pockets or layers of free-draining granular soil or the bedding and cover of other utilities, which could contribute significant amounts of water into the water main trenches. In the event that significant zones of free-draining materials are encountered, it might be necessary to temporarily employ additional dewatering pumps or other measures.

8. It is anticipated that the Contractor will design, install, operate, and maintain the dewatering system. Details of the proposed dewatering system should be submitted to UE to allow for review of its components prior to installation. The submittal should provide information on sources of power, locations of sumps and wells, pump types, and other features, including filtering methods, to reduce pumping of soils and discharge points.
9. RWG&A recommends that all fill placed within 2 feet of finished grade in paved areas be compacted to at least 95 percent of the maximum dry density, as determined by *ASTM Standard D 1557 Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))*, (ASTM D1557). Trench backfill from the top of pipe cover and up to the bottom of pavement subbase, or ground surface in unpaved areas, should be compacted to a minimum of 92 percent of ASTM D1557. Heavy self-propelled compaction equipment should not be used until the pipe depth of cover is a minimum of 3 feet.

When a trench box is used, it can be difficult to compact backfill materials. Sometimes there might be a tendency to remove the trench box after the pipe has been installed and then end-dump backfill material with little compaction. Relative compaction to less than recommended herein could result in settlement over the pipe trench years after the drainage system is installed.

In paved areas, overfilling and re-leveling (i.e., shimming) is not desirable. Often, paving of the wearing surface is delayed over a winter to allow for “traffic compaction.” Traffic compaction may reduce, but does not necessarily prevent, swales from developing over the trenches. Post-construction settlement over utility trenches can significantly increase pavement maintenance and repair costs. If the above conditions are unacceptable, then a systematic compaction effort must be applied to all the trench backfill.

7.04 Temporary Excavations

10. Soils encountered below surficial asphalt consisted of fill, peat and organic materials, and naturally deposited silty sand and silt and clay with varying amounts of sand. It is anticipated that excavations can be accomplished using sloped, open-cut techniques. It is also anticipated that dewatering can be accomplished using sumps and open pumping methods for most of the project area, but pre-drainage might be needed locally.

The Contractor should be aware that slope height, slope inclination, and excavation depths (including utility trench excavations) should in no case exceed those specified in local, state, or federal safety regulations (e.g., OSHA Health and Safety Standards for Excavations, 29 CFR Part 1926, or successor regulations). Such regulations are strictly enforced and, if they are not followed, the Owner, Contractor, and/or earthwork and utility subcontractors could be liable for substantial penalties.

As a safety measure, it is recommended that all vehicles and spoil piles be kept a minimum lateral distance from the top of excavations equal to no less than 100 percent of the slope height. Exposed slope faces should be protected against the elements.

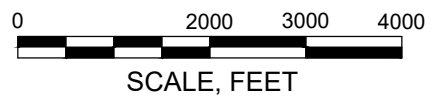
8.0 CLOSURE

This report has been prepared for specific application to the Westside Drive Area Infrastructure Improvement Project in Exeter, New Hampshire, and for the exclusive use of UE. This work has been completed in accordance with generally accepted soil engineering practices. No other warranty, expressed or implied, is made. In the event that any changes are made in the nature, alignment, or depths of the project, the conclusions and recommendations of this report should be reviewed by RWG&A.

The recommendations presented are based on the results of widely spaced explorations. The nature of variations between explorations may not become evident until construction. If variations are encountered, it will be necessary for RWG&A to re-evaluate the recommendations presented in this report. RWG&A requests an opportunity for a general review of the final design and specifications in order to determine that the design recommendation presented herein have been interpreted in the manner in which they were intended.



FIGURE 1
 LOCUS MAP
 GEOTECHNICAL ENGINEERING EVALUATION
 WESTSIDE DRIVE AREA INFRASTRUCTURE
 IMPROVEMENT PROJECT
 EXETER, NEW HAMPHIRE



SOURCE:
 USGS 7.5-MINUTE TOPOGRAPHIC QUADRANGLE OF
 EXETER, NH, DATED 2018.

DECEMBER 2020 PROJECT NO. 0515-187

**R.W. Gillespie
 & Associates**
 Geotechnical Engineering • Materials Testing Services
 Environmental Consulting • www.rwgillespie.com

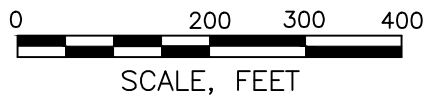




FIGURE 2
EXPLORATION LOCATION PLAN
GEOTECHNICAL ENGINEERING EVALUATION
WESTSIDE DRIVE AREA INFRASTRUCTURE
IMPROVEMENT PROJECT
EXETER, NEW HAMPHIRE

DECEMBER 2020

PROJECT NO. 0515-187

LEGEND:

-  MW-1 APPROXIMATE LOCATION OF SOIL BORING DRILLED 13 OCTOBER 2020.
-  B-2 APPROXIMATE LOCATION OF BORING WITH MONITORING WELL INSTALLED BY RWG&A 13 OCTOBER 2020.

SOURCE:
DRAWING NO. X, TITLED "WESTSIDE DRIVE KICKOFF MEETING",
PREPARED BY UNDERWOOD ENGINEERS, DATED 9.2.20.



APPENDIX A
LIMITATIONS

Geotechnical Engineering Evaluation
Westside Drive Area Infrastructure Improvement Project
Exeter, New Hampshire

LIMITATIONS

This evaluation has been limited to consideration of the geotechnical aspects of the proposed Westside Drive Area Infrastructure Improvement Project in Exeter, New Hampshire. The purpose of the evaluation was to obtain information regarding subsurface conditions on which to base recommendations about the geotechnical aspects of design and construction of pavement sections and storm drain. This report is not a technical specification nor is it intended to be used as a specification for bidding or building the project.

This geotechnical evaluation might also aid Contractors responsible for construction of the planned roadway and storm drain. However, the recommendations and comments provided hereinafter are not intended to be instructions or directives to the project Contractors. The project Contractors must evaluate construction issues encountered in the work on the basis of their experience with similar projects taking in to account their own methods and procedures.

RWG&A has not considered the construction from a worker safety perspective. Construction safety is the responsibility of the project Contractor, who is also solely responsible for the means, methods, and sequencing of construction operations. RWG&A is providing this information as a service to UE. Under no circumstances should this information be interpreted to mean that RWG&A and/or UE are assuming responsibility for construction site safety or the Contractor's activities; such responsibility is not being implied and should not be inferred.

RWG&A's services excluded any environmental site assessment relative to oil and hazardous materials or evidence of a potential release or threat of oil or hazardous materials on, below, or around the site. (Note: any statement in this report, or on the exploration logs, regarding odors or unusual or suspicious conditions is for informational purposes only and is not intended to constitute an environmental assessment).

APPENDIX B
EXPLORATION LOGS

Geotechnical Engineering Evaluation
Westside Drive Area Infrastructure Improvement Project
Exeter, New Hampshire

RWG&A, Inc. soil descriptions are based on the following criteria. Descriptive terminology is used to denote the grain size and percentage of each component. The soil descriptions are based on visual-manual classification procedures, Standard Penetration Test results, and the results of laboratory testing on selected soil samples, where available. The Unified Soil Classification Group Symbol will be indicated in capital letters.

COMPONENT DEFINITIONS BY GRADATION SIEVE LIMITS

Materials	Definitions	Fractions	Upper	Lower
Boulders	Material too large to pass through an opening 12 in. square.			
Cobbles	Material passing through a 12 in. opening and retained on the 3 in. sieve.			
Gravel	Material passing the 3 in. sieve and retained on 1/4" (No. 4 sieve).	Coarse Fine	3 in. 3/4 in.	3/4 in. 1/4 in.
Sand	Material passing the No. 4 sieve and retained on the No. 200 sieve.	Coarse Medium Fine	No. 4 (1/4") No. 10 (1/8") No. 40 (1/32")	No. 10 (1/8") No. 40 (1/32") No. 200
Silt	Material passing the No. 200 sieve which is usually non-plastic in character and exhibits little or no strength when air dried.		No. 200	
Clay	Material passing the No. 200 sieve which can also be made to exhibit plasticity within a certain range of moisture contents and which exhibits considerable strength when air dried.		No. 200	

SOIL DESCRIPTION

General

Soils are described as to the Unified Soil Classification Systems Group Symbol, density or consistency, color, grain size distribution and other pertinent properties such as plasticity and dry strength. The RWG&A order of descriptors is as follows:

1. USCS Group Name and Symbol, or Fill
2. Density or Consistency
3. Moisture
4. Grain Size & Constituent percentages
5. Other pertinent descriptors
6. Color

DESCRIPTIVE TERMINOLOGY DENOTING COMPONENT PROPORTIONS

<u>Descriptive Terms</u>	<u>Range of Proportions</u>
Noun (major component)	≥50%
Adjective (secondary component)	20 - 50%
Some (third component)	25 - 45%
Little (second or third component)	15 - 25%
Few (second or third component)	5 - 15%
Trace	0 - 5%
With	Amount of component not determined. Used as a conjunction only. Does not indicate component percentile

OTHER DESCRIPTIVE TERMS

Where appropriate, geological classifications are also used (Glacial Till, etc.)

TYPICAL DESCRIPTIONS

SAND WITH SILT (SP-SM): Medium dense, moist, coarse to medium sand, few silt, brown.
 FILL; Loose, dry, fine sand, some gravel and silt, with brick and concrete fragments, dark brown.
 SILTY CLAY (CL); Very stiff, moist, silty clay, olive-brown.

<u>DENSITY OR CONSISTENCY OF SOILS</u>		
<u>COHESIVE SOILS</u>		
<u>Consistency of Cohesive Soils</u>	<u>Standard Penetration Test (Blows Per Foot) (N)</u>	<u>Undrained Shear Strength (TSF)</u>
Very Soft	0 - 2	Below 0.13 (250 psf)
Soft	2 - 4	0.13 to 0.25 (to 500 psf)
Medium	4 - 8	0.25 to 0.5 (to 1,000 psf)
Stiff	8 - 15	0.5 to 1.0 (to 2,000 psf)
Very Stiff	15 - 30	1.0 to 2.0 (to 4,000 psf)
Hard	Over 30	over 2.0 (over 4,000 psf)
Consistency of cohesive soils is based upon field vane shear, torvane, or pocket penetrometer, or laboratory vane shear or Unconsolidated-Undrained Triaxial Compression tests. Consistency of cohesive soils is based upon the Standard Penetration test when no other data is available.		
<u>COHESIONLESS SOILS</u>		
<u>Density of Cohesionless Soils</u>	<u>Standard Penetration Test (Blows per Foot) (in)</u>	
Very Loose	0 - 4	
Loose	4 - 10	
Medium Dense	10 - 30	
Dense	30 - 50	
Very Dense	over 50	
<u>PENETRATION RESISTANCE</u>		
STANDARD PENETRATION TEST (ASTM D1586) - a 2.0-inch diameter, 1-3/8 inch inside diameter split barrel sample is driven into soil by means of a 140-pound weight falling freely through a vertical distance of 30 inches. The total number of blows required for penetration from 6 to 18 inches is the Standard Penetration Resistance (N).		
<u>COBBLES AND BOULDERS</u>		
The percentage of cobbles and boulders is estimated visually where possible.		
<u>Descriptive Term</u>	<u>Estimated Percentage</u>	
Very Few	0 - 10%	
Few	10 - 25%	
Common	25 - 40%	
Numerous	40 - 50%	
If the percentage cannot be determined, as in a typical test boring, then use "with" to indicate the presence of cobbles and/or boulders. (i.e., gravelly sand with cobbles and boulders).		
<u>FILLS</u>		
The following terminology is used to denote size range of man-made materials within fill deposits:		
<u>Size Range</u>	<u>Comparative Soil Terms</u>	
<No. 200 Sieve	Silt - size	
No. 200 to 1/4 in.	Sand - size	
1/4 in. to 3 in.	Gravel - size	
3 in. to 12 in.	Cobble - size	
>12 in.	Boulder - size	
<u>SUPPLEMENTAL SOIL DESCRIPTION TERMINOLOGY</u>		
<u>Term</u>	<u>Example</u>	
Seam	Typically 1/16 to 1/2 inch thick	1/4 inch sand seams
Layer	Greater than 1/2 inch thick	2-inch sand layers
Occasional	One or less per foot of thickness	
Frequent	More than one per foot of thickness	
Interbedded	Alternating soil layers of different composition	
Varved	Alternating thin seams of silt and clay	
Mottled	Variations in color	



Project Name: Westside Drive Area
 RWG&A Project No. 0515-187
 Location: Exeter, New Hampshire
 Client: Underwood Engineers, Inc.
 RWG&A Representative: Serena Pape
 Boring Location: See Exploration Location Plan
 Boring Abandonment Method: Cuttings, Sand & Cold Patch
 Observed Water Depth: 3'

Drilling Co.: Northern Test Boring
 Drill Rig: Diedrich D50
 Driller Rep.: Mike Nadeau
 Date Started: 10/13/2020
 Date Completed: 10/13/2020
 Surface Elevation:
 Drilling Method: SSA
 Casing Type: N/A

DEPTH, FT.	SYMBOL SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0			ASPHALTIC PAVEMENT (4 inches).					
		S-1	FILL; Moist, coarse to fine sand, few gravel, some silt, light brown.	24	4	5	8	GS MC
		S-2	SILT AND CLAY WITH SAND (ML); Very loose to loose, wet, silt, with fine sand and clay, gray.	24	3 2 2 3	3		
5		S-3	2-inch layer of organics.	15	2 1 1 1	3	30	GS MC
		S-4	4-inch layer of organics.	24	1 2 1 1	7		
			SILTY CLAY (CL); Medium stiff, wet, clay, some silt, gray-brown.		2 1 1			
10			Bottom of Exploration at 9'; Not refusal.		2 5 7			
15								
20								
25								
30								

Notes:



Project Name: Westside Drive Area
 RWG&A Project No. 0515-187
 Location: Exeter, New Hampshire
 Client: Underwood Engineers, Inc.
 RWG&A Representative: Serena Pape
 Boring Location: See Exploration Location Plan
 Boring Abandonment Method: Cuttings, Sand & Cold Patch
 Observed Water Depth: Not Obs.

Drilling Co.: Northern Test Boring
 Drill Rig: Diedrich D50
 Driller Rep.: Mike Nadeau
 Date Started: 10/13/2020
 Date Completed: 10/13/2020
 Surface Elevation:
 Drilling Method: SSA
 Casing Type: N/A

DEPTH, FT.	SYMBOL SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0		S-1	ASPHALTIC PAVEMENT (4.5 inches). FILL; Coarse to fine sand, little gravel, little silt, brown.	18	15 14 11	25	7	GS MC
		S-2		9	10 9	6		
		S-3	PEAT (PT); Very loose, wet, silt, medium to fine sand, with organics, black.	8	4 2 2 1	11		
		S-4	SAND WITH SILT AND GRAVEL (SP-SM); Medium dense, wet, coarse to fine sand, trace to few gravel, few silt, light gray.	10	1 1 10 8	17	20	GS MC
		S-5	SANDY SILT (ML); Medium dense, wet, silt, some medium to fine sand, tan-gray. Becomes tan.	9	10 8 8 8 4 8 10 8	18		
10			Bottom of Exploration at 10.4'; Not refusal.					
15								
20								
25								
30								

Notes:



Project Name: Westside Drive Area
 RWG&A Project No. 0515-187
 Location: Exeter, New Hampshire
 Client: Underwood Engineers, Inc.
 RWG&A Representative: Serena Pape
 Boring Location: See Exploration Location Plan
 Boring Abandonment Method: Cuttings, Sand & Cold Patch
 Observed Water Depth: 3'

Drilling Co.: Northern Test Boring
 Drill Rig: Diedrich D50
 Driller Rep.: Mike Nadeau
 Date Started: 10/13/2020
 Date Completed: 10/13/2020
 Surface Elevation:
 Drilling Method: SSA
 Casing Type: N/A

DEPTH, FT.	SYMBOL SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0			ASPHALTIC PAVEMENT (7 inches).					
0.75		S-1	FILL; Moist to wet, coarse to fine sand, little gravel, little silt, gray-brown.	15	4	7	5	GS MC
1.5		S-2	SILTY CLAY (CL); Medium stiff, moist, clay, some silt, frequent 1/16" medium to fine sand seams, gray-brown with yellow-tan seams.	18	2 5 6	10		
3.0		S-3	SILT WITH CLAY AND SAND (ML); Medium dense, wet, silt, with varying amounts of clay and fine sand.	9	5 4 6 8	9		
4.5		S-4		24	4 4 6 3	9		
9.0			SILTY CLAY (CL); Stiff, wet, clay, some silt, frequent 1/16" fine sand seams, medium orange gray with orange seams. Bottom of Exploration at 9'; Not refusal.		3 5 5 4 5			

Notes:



Project Name: Westside Drive Area
 RWG&A Project No. 0515-187
 Location: Exeter, New Hampshire
 Client: Underwood Engineers, Inc.
 RWG&A Representative: Serena Pape
 Boring Location: See Exploration Location Plan
 Boring Abandonment Method: Cuttings, Sand & Cold Patch
 Observed Water Depth: 5'

Drilling Co.: Northern Test Boring
 Drill Rig: Diedrich D50
 Driller Rep.: Mike Nadeau
 Date Started: 10/13/2020
 Date Completed: 10/13/2020
 Surface Elevation:
 Drilling Method: SSA
 Casing Type: N/A

DEPTH, FT.	SYMBOL SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0			ASPHALTIC PAVEMENT (8 inches).					
		S-1	FILL; Coarse to fine sand, little gravel, little silt, brown.	21	4	7	6	GS MC
		S-2	SAND WITH SILT (SP-SM); Loose, moist, coarse to fine sand, few to little gravel, trace to few silt, orange-brown.	12	3 4 4 5	10		
		S-3	SILTY SAND (SM); Loose, wet, medium to fine sand, little to some silt, orange-brown.	15	4 4 3 3	4		
		S-4	SILTY CLAY (CL); Medium stiff, wet, clay, some silt, gray-brown.	20	2 2 2 2 2 2 3 3 3	6		
10			Bottom of Exploration at 9'; Not refusal.					

Notes:



R.W. Gillespie & Associates

- Geotechnical Engineering
- Environmental Consulting
- Materials Testing Services

Boring Log: MW-1

Total Depth (ft): 10.2

Sheet 1 of 1

Project Name: Westside Drive Area
 RWG&A Project No. 0515-187
 Location: Exeter, New Hampshire
 Client: Underwood Engineers, Inc.
 RWG&A Representative: Serena Pape
 Boring Location: See Exploration Location Plan
 Boring Abandonment Method: Observation Well Installed
 Observed Water Depth: 0.1' Above Ground

Drilling Co.: Northern Test Boring
 Drill Rig: Diedrich D50
 Driller Rep.: Mike Nadeau
 Date Started: 10/13/2020
 Date Completed: 10/13/2020
 Surface Elevation:
 Drilling Method: SSA
 Casing Type: N/A

DEPTH, FT.	SYMBOL SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0		S-1	ASPHALTIC PAVEMENT (2 inches). FILL; Moist to wet, coarse to fine sand, some silt, few gravel, gray-brown.	6	17	11		
		S-2	PEAT (PT); Very loose, wet, silt, with fine sand and organics, black.	10	6	4		
		S-3	SAND WITH SILT AND GRAVEL (SP-SM); Medium dense, wet, coarse to fine sand, little to some silt, gray-tan.	24	5	11		
5		S-4	SILTY SAND (SM); Medium dense, wet, fine sand, some silt, gray, brown and orange.	16	4	11	29	GS
		S-5	SANDY SILT (ML); Medium dense, wet, silt, few fine sand.	15	2	9		MC
			SILTY SAND (SM); Loose, wet, coarse to fine sand, some silt, gray-orange with orange.		2			
10			Bottom of Exploration at 10.2'; Not refusal.		5			
					6			
					1			
					4			
					5			
					6			
15								
20								
25								
30								

Notes:



R.W. Gillespie & Associates

- Geotechnical Engineering
- Environmental Consulting
- Materials Testing Services

Boring Log: MW-2

Total Depth (ft): 10.5

Sheet 1 of 1

Project Name: Westside Drive Area
 RWG&A Project No. 0515-187
 Location: Exeter, New Hampshire
 Client: Underwood Engineers, Inc.
 RWG&A Representative: Serena Pape
 Boring Location: See Exploration Location Plan
 Boring Abandonment Method: Observation Well Installed
 Observed Water Depth: Not Obs.

Drilling Co.: Northern Test Boring
 Drill Rig: Diedrich D50
 Driller Rep.: Mike Nadeau
 Date Started: 10/13/2020
 Date Completed: 10/13/2020
 Surface Elevation:
 Drilling Method: SSA
 Casing Type: N/A

DEPTH, FT.	SYMBOL SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0		S-1	ASPHALTIC PAVEMENT (6 inches). FILL; Moist, medium to fine sand, few to little gravel, trace to few silt, medium brown.	10	8 7 4	11		
		S-2	SILTY SAND TO SANDY SILT (SM/ML); Wet, medium to fine sand and silt, yellow-brown.	12	3 3 9	15		
5		S-3	CLAYEY SILT TO SILTY CLAY (CL-ML); Medium stiff to stiff, wet, silt and clay, gray-brown.	18	6 3 2 2	5		
		S-4	6-inch dark brown layer. Becomes stiff.	24	2 3 4 3	11		
		S-5		14	6 5 7 4 6 7	13		
10			Bottom of Exploration at 10.5'; Not refusal.		12			
15								
20								
25								
30								

Notes:



R.W. Gillespie & Associates

- Geotechnical Engineering
- Environmental Consulting
- Materials Testing Services

Boring Log: MW-3

Total Depth (ft): 10.3

Sheet 1 of 1

Project Name: Westside Drive Area
 RWG&A Project No. 0515-187
 Location: Exeter, New Hampshire
 Client: Underwood Engineers, Inc.
 RWG&A Representative: Serena Pape
 Boring Location: See Exploration Location Plan
 Boring Abandonment Method: Observation Well Installed
 Observed Water Depth: 4'

Drilling Co.: Northern Test Boring
 Drill Rig: Diedrich D50
 Driller Rep.: Mike Nadeau
 Date Started: 10/13/2020
 Date Completed: 10/13/2020
 Surface Elevation:
 Drilling Method: SSA
 Casing Type: N/A

DEPTH, FT.	SYMBOL SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0		S-1	ASPHALTIC PAVEMENT (4 inches). FILL; Coarse to fine sand, few to little gravel, few silt, brown.	12	9 9 8	17		
		S-2		0	10 7	13		
5		S-3	SILTY SAND TO SANDY SILT (SM/ML); Loose, wet, silt and fine sand, orange brown.	17	6 3 2	4		
		S-4	SAND WITH SILT (SP-SM); Loose to medium dense, coarse to fine sand, trace to few silt, orange-brown.	3	2 2 2	5		
		S-5		12	2 2 2 3 4 4 6 5 5	11	29	GS MC
			Bottom of Exploration at 10.3'; Not refusal.					

Notes:



Project Name: Westside Drive Area
 RWG&A Project No. 0515-187
 Location: Exeter, New Hampshire
 Client: Underwood Engineers, Inc.
 RWG&A Representative: Serena Pape
 Boring Location: See Exploration Location Plan
 Boring Abandonment Method: Observation Well Installed
 Observed Water Depth: 7'

Drilling Co.: Northern Test Boring
 Drill Rig: Diedrich D50
 Driller Rep.: Mike Nadeau
 Date Started: 10/13/2020
 Date Completed: 10/13/2020
 Surface Elevation:
 Drilling Method: SSA
 Casing Type: N/A

DEPTH, FT.	SYMBOL SAMPLES	SAMPLE NUMBER	DESCRIPTION OF MATERIAL	SAMPLE RECOVERY, IN.	BLOWS PER 6"	SPT-N BLOWS PER FT.	MOISTURE CONTENT %	LAB TESTS
0		S-1	ASPHALTIC PAVEMENT (4 inches).	9	7	9		
			FILL; Coarse to fine sand, few to little gravel, few silt, brown.		6			
		S-2	SILTY SAND (SM); Loose to medium dense, moist to wet, medium to fin sand, some silt, yellow tan.	17	4	11		
		S-3	SANDY SILT (ML); Medium dense, moist, silt, some fine sand, gray-brown, frequent medium sand seams.	23	5			
5		S-4	2-inch silty clay layer.		5			
		S-5	SAND WITH SILT (SP-SM); Medium dense, wet, sand, trace to few silt, orange-brown.	16	6			
			SILTY CLAY (CL); Stiff, wet, clay, some silt, gray-brown.	15	5			
10			Bottom of Exploration at 10.3'; Not refusal.		8			
					10			
					11			
					7			
					12			
					9			
					11			
					7			
					7			
					9			
					11			
15								
20								
25								
30								

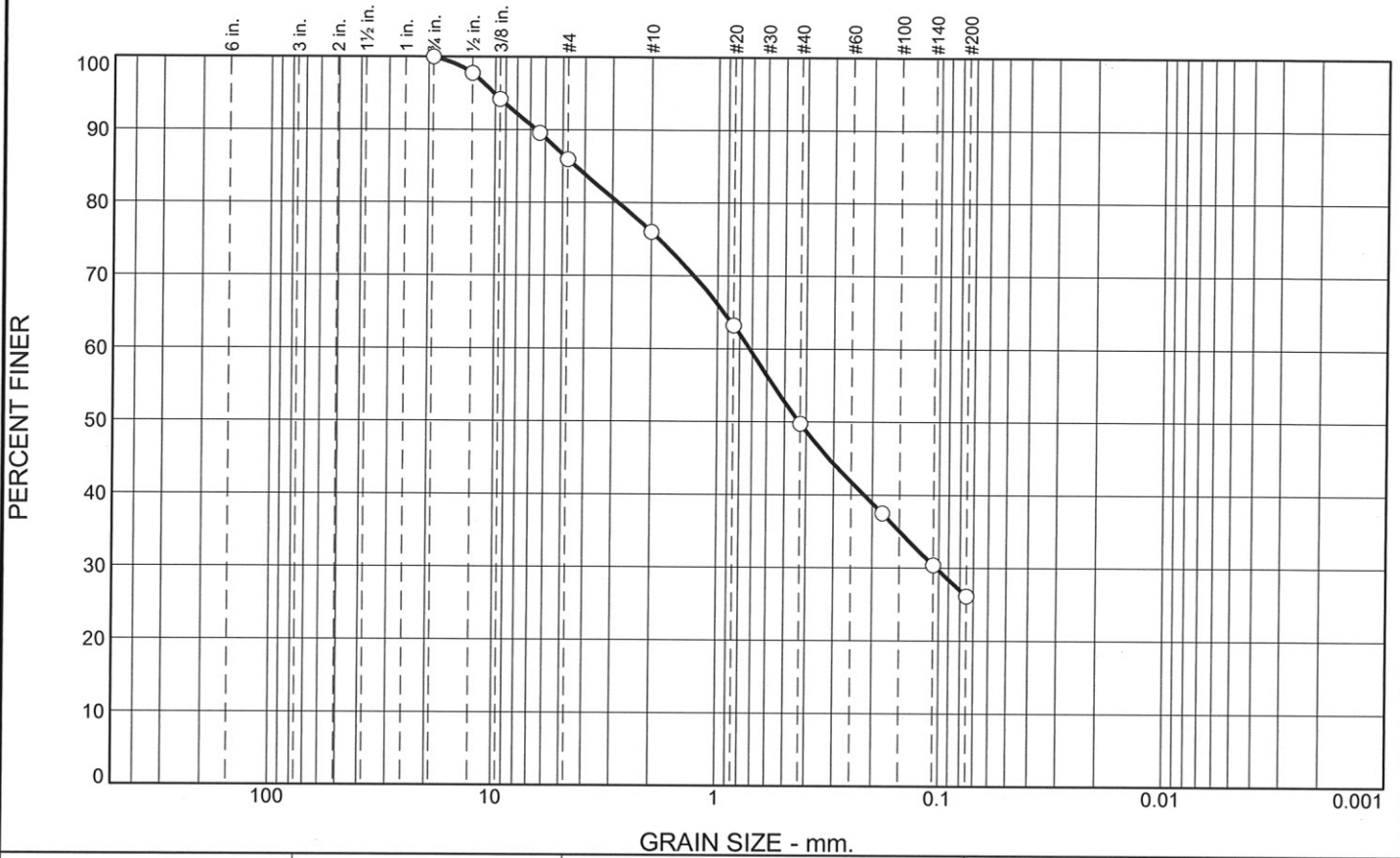
Notes:

APPENDIX C

LABORATORY TEST RESULTS

Geotechnical Engineering Evaluation
Westside Drive Area Infrastructure Improvement Project
Exeter, New Hampshire

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	14.0	10.0	26.3	23.6	26.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	97.8		
3/8"	94.2		
1/4"	89.6		
#4	86.0		
#10	76.0		
#20	63.2		
#40	49.7		
#80	37.5		
#140	30.4		
#200	26.1		

Soil Description

silty sand

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 6.5794 D₈₅= 4.3931 D₆₀= 0.7201
D₅₀= 0.4312 D₃₀= 0.1026 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

Moisture Content: 7.5%

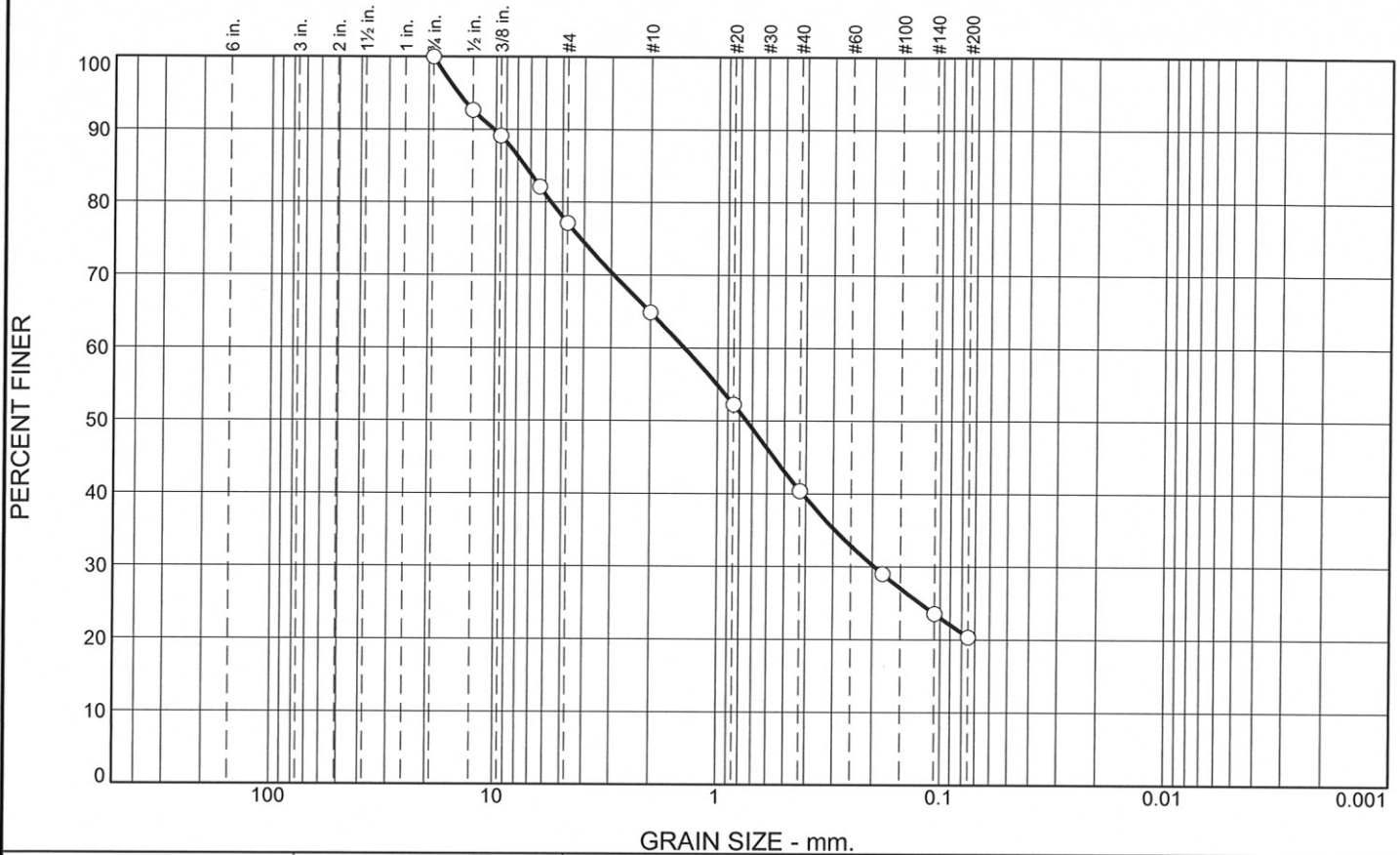
* (no specification provided)

Location: B-2 **Sample Number:** Base **Depth:** 0.3'-1' **Date:** 12/2/20

R.W. Gillespie & Associates, Inc. Biddeford, Maine	Client: Underwood Engineers, Inc. Project: Westside Drive Area Exeter, NH Project No: 0515-187 Lab No. 16337-01
-----------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: JRF **Checked By:** MTG *MTG*

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	22.9	12.2	24.5	20.0	20.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	92.7		
3/8"	89.1		
1/4"	82.1		
#4	77.1		
#10	64.9		
#20	52.3		
#40	40.4		
#80	29.0		
#140	23.6		
#200	20.4		

Soil Description

silty sand with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 10.2023 D₈₅= 7.4196 D₆₀= 1.4053
D₅₀= 0.7441 D₃₀= 0.1964 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

Moisture Content: 5.3%

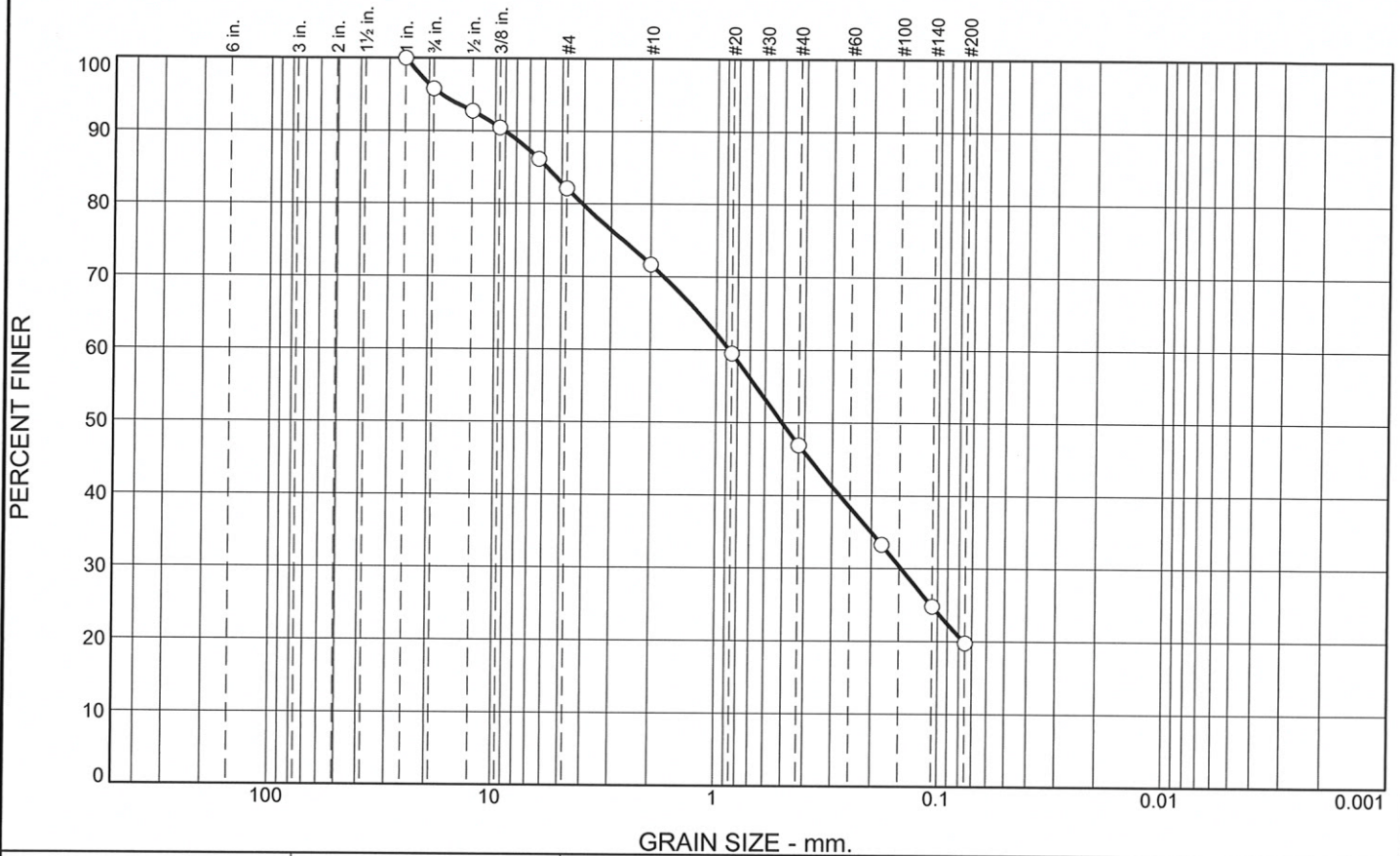
* (no specification provided)

Location: B-5 Sample Number: Base Depth: 0.6'-1' Date: 12/2/20

R.W. Gillespie & Associates, Inc. Biddeford, Maine	Client: Underwood Engineers, Inc. Project: Westside Drive Area Exeter, NH Project No: 0515-187
Lab No. 16337-03	

Tested By: JRF Checked By: MTG

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.2	13.7	10.4	24.8	27.1	19.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	95.8		
1/2"	92.7		
3/8"	90.5		
1/4"	86.2		
#4	82.1		
#10	71.7		
#20	59.5		
#40	46.9		
#80	33.3		
#140	24.8		
#200	19.8		

Soil Description

silty sand with gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 9.0431 D₈₅= 5.8179 D₆₀= 0.8747
D₅₀= 0.5044 D₃₀= 0.1469 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-1-b

Remarks

Moisture Content: 5.7%

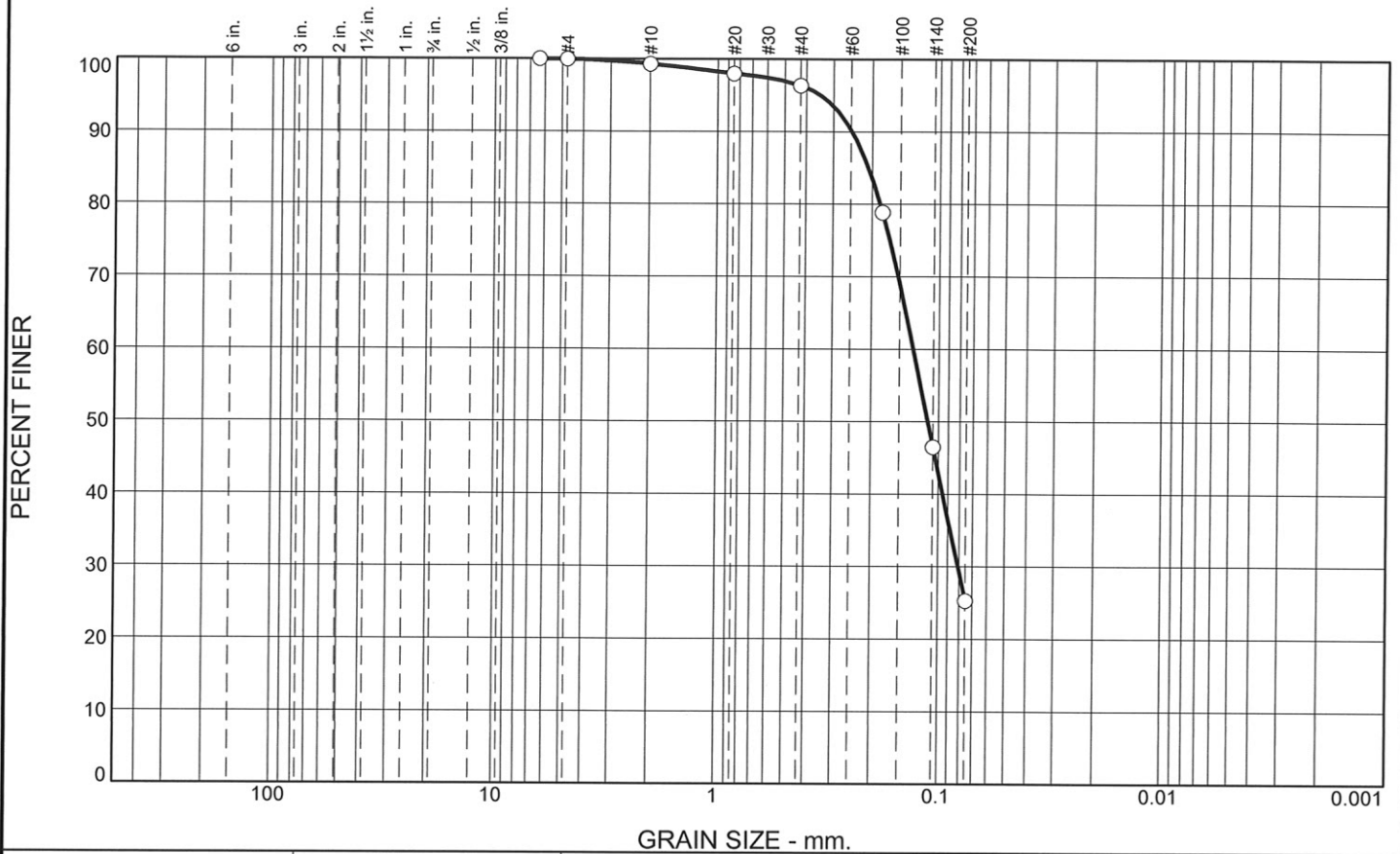
* (no specification provided)

Location: B-7 Sample Number: Base Depth: 0.7'-1' Date: 12/2/20

R.W. Gillespie & Associates, Inc. Biddeford, Maine	Client: Underwood Engineers, Inc. Project: Westside Drive Area Exeter, NH Project No: 0515-187 Lab No. 16337-04
-----------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------

Tested By: JRF Checked By: MTG *MTG*

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.7	3.0	71.0	25.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/4"	100.0		
#4	100.0		
#10	99.3		
#20	98.0		
#40	96.3		
#80	78.9		
#140	46.5		
#200	25.3		

Soil Description
silty sand

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.2479 D₈₅= 0.2089 D₆₀= 0.1303
 D₅₀= 0.1119 D₃₀= 0.0812 D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-2-4(0)

Remarks
 Moisture Content: 28.5%

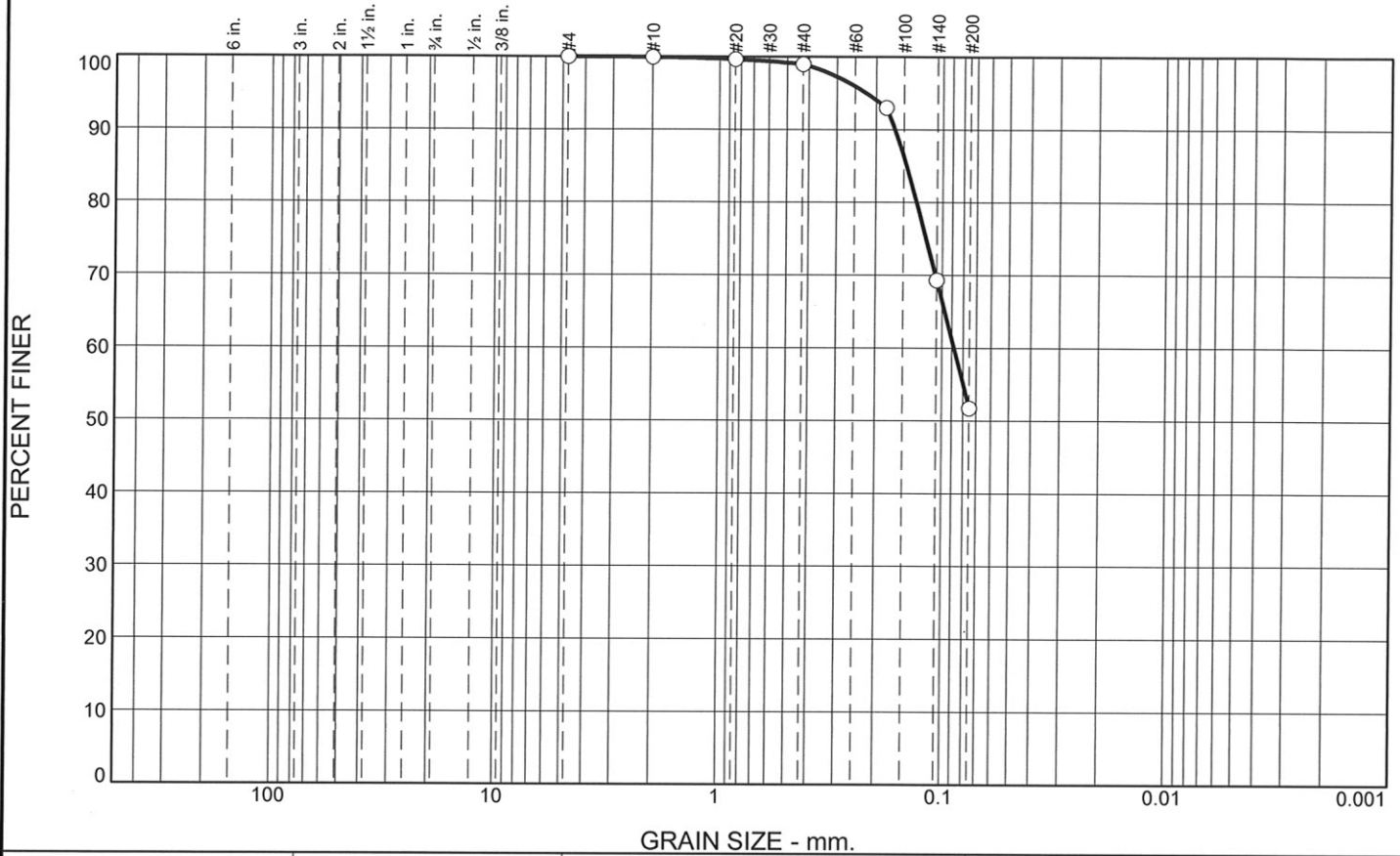
* (no specification provided)

Location: MW-1 Sample Number: S-4 Depth: 6.2'-6.9' Date: 12/2/20

R.W. Gillespie & Associates, Inc. Biddeford, Maine	Client: Underwood Engineers, Inc. Project: Westside Drive Area Exeter, NH Project No: 0515-187
Lab No. 16337-05	

Tested By: JRF Checked By: MTG *MTG*

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	0.9	47.3	51.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	99.9		
#20	99.7		
#40	99.0		
#80	93.0		
#140	69.3		
#200	51.7		

Soil Description

sandy silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 0.1645 D₈₅= 0.1456 D₆₀= 0.0883

D₅₀= D₃₀= D₁₅=

D₁₀= C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

Moisture Content: 29.0%

* (no specification provided)

Location: MW-3 Depth: 8.3'-10.3'

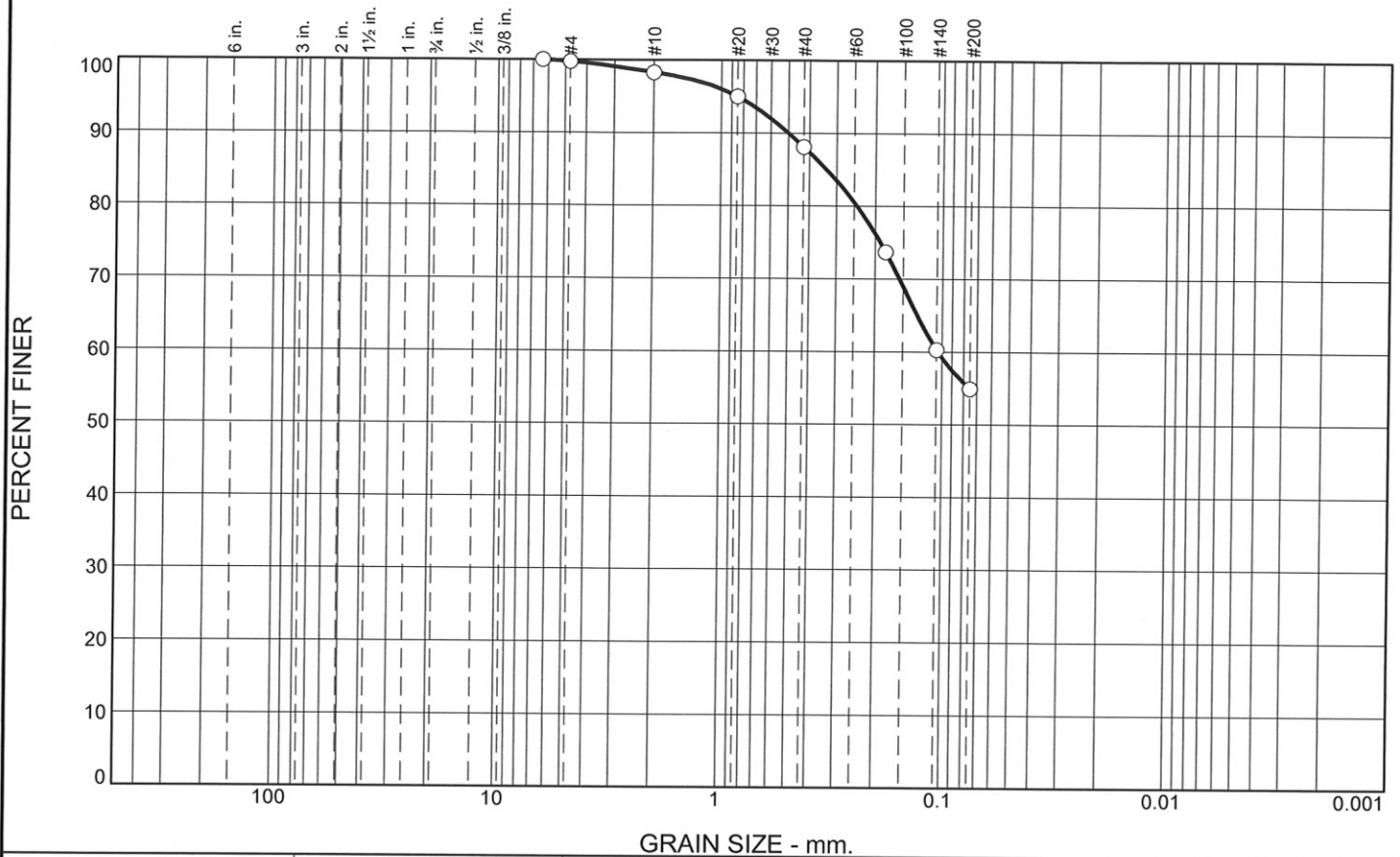
Sample Number: S-5

Date: 12/2/20

R.W. Gillespie & Associates, Inc. Biddeford, Maine	Client: Underwood Engineers, Inc. Project: Westside Drive Area Exeter, NH Project No: 0515-187
Lab No. 16337-06	

Tested By: JRF Checked By: MTG *MTG*

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.2	1.5	10.2	33.2	54.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/4"	100.0		
#4	99.8		
#10	98.3		
#20	95.0		
#40	88.1		
#80	73.7		
#140	60.3		
#200	54.9		

Soil Description
sandy silt

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.4997 D₈₅= 0.3337 D₆₀= 0.1045
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= ML AASHTO= A-4(0)

Remarks
 Moisture Content: 29.7%

* (no specification provided)

Location: B-2
 Sample Number: S-3 Depth: 5'-7'

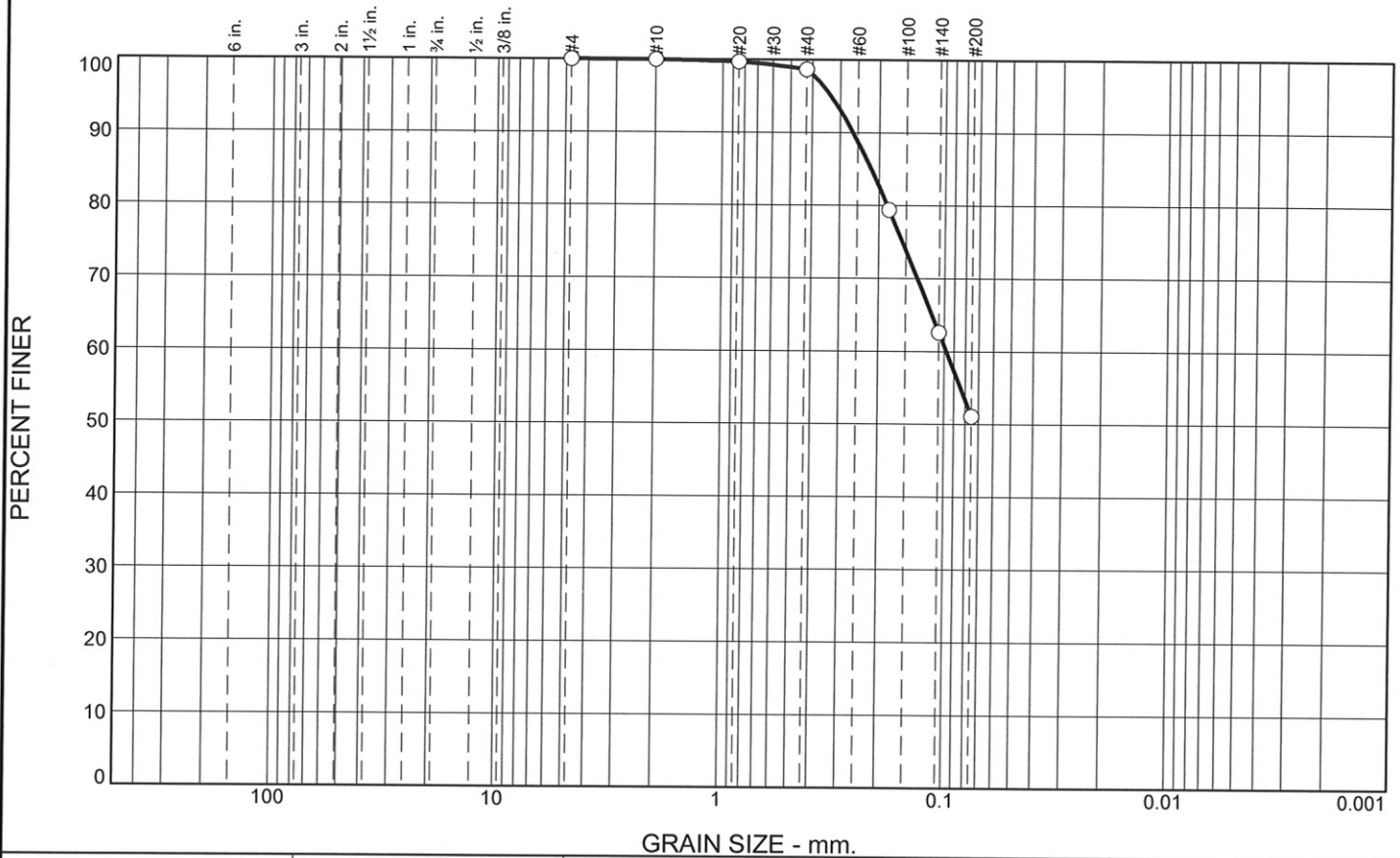
Date: 12/2/20

R.W. Gillespie & Associates, Inc. Biddeford, Maine	Client: Underwood Engineers, Inc. Project: Westside Drive Area Exeter, NH Project No: 0515-187
Lab No. 16337-07	

Tested By: JRF

Checked By: MTG *MTG*

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	1.3	47.6	51.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	100.0		
#20	99.7		
#40	98.7		
#80	79.4		
#140	62.6		
#200	51.1		

Soil Description
sandy silt

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.2631 D₈₅= 0.2179 D₆₀= 0.0979
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= ML AASHTO= A-4(0)

Remarks
 Moisture Content: 20.1%

* (no specification provided)

Location: B-4
 Sample Number: S-4 Depth: 6.4'-8.4'

Date: 12/2/20

R.W. Gillespie & Associates, Inc. Biddeford, Maine	Client: Underwood Engineers, Inc. Project: Westside Drive Area Exeter, NH Project No: 0515-187	Lab No. 16337-08
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Tested By: JRF Checked By: MTG

Appendix G
Internal House Inspection Surveys

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 1 Blanche LN Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1139 Unsuccessful, Left Flyer Not Admitted Other Complete
 2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
 3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill ___

Above Floor Level-Distance from Invert to Sill ___ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other ___

Comments ___

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other ___

Comments ___

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments NONE

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

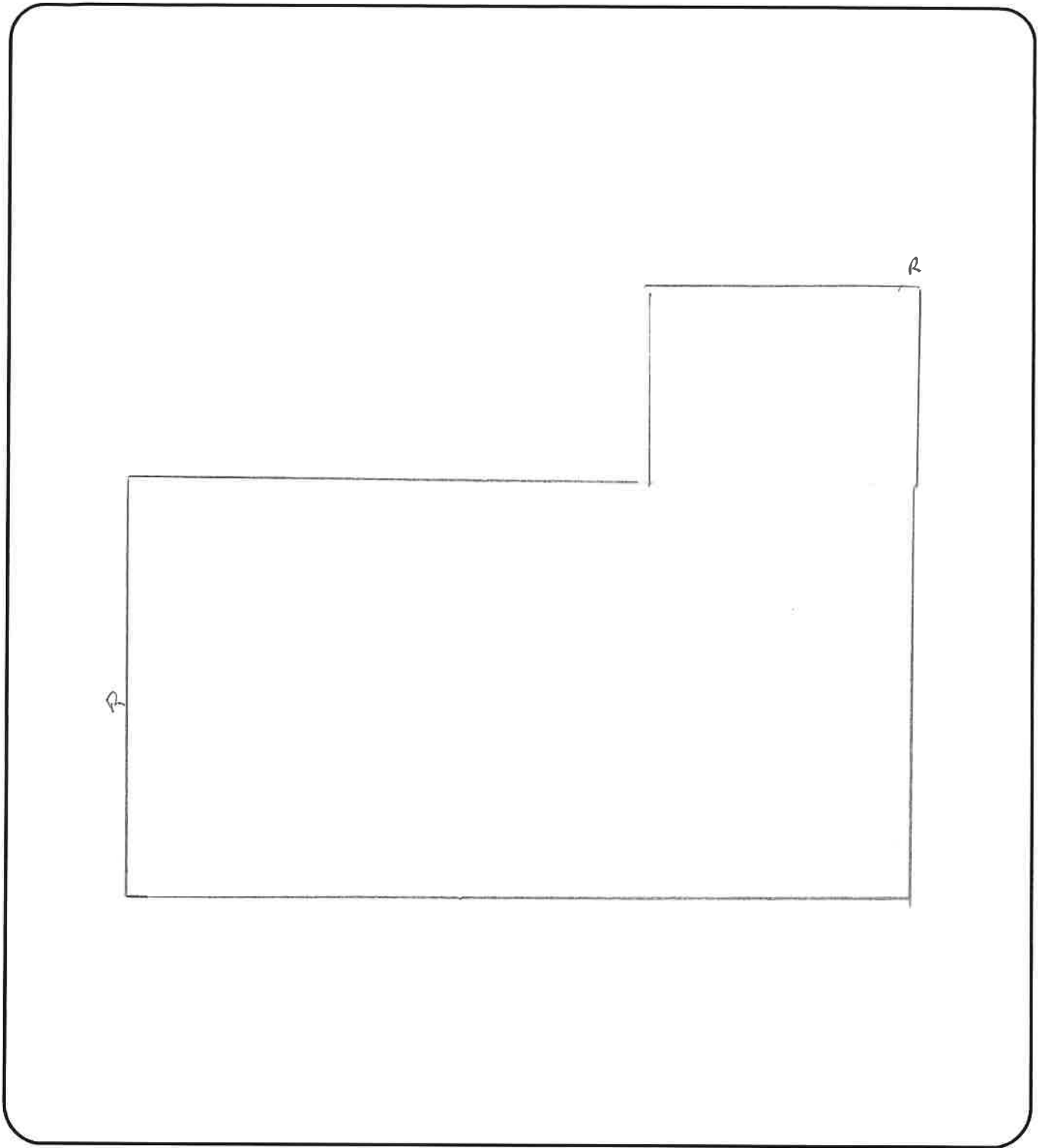
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sil ___ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other ___ Comments ___

General Comments: House built on a slab, no basement. Home owner did not know where water meter or sewer were located.

NOTE - SEE SKETCH ATTACHED



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- Ⓢ SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- △ WM WATER METER
- SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

DATE: 10/29/20

STREET ADDRESS:

1 Blanche LN

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # ___ Tax Map # ___ Sub System ___ Street # 1 Scammon Ln Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1015 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments Sewage Back up has happend 2 times in the past

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill 6'5"

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other Copper

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments NONE

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill 6'5" Below Floor Level

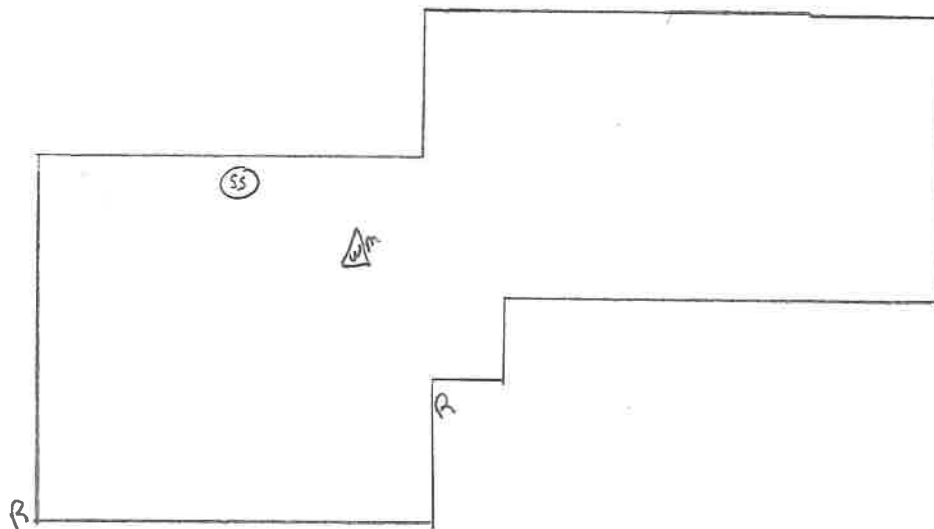
Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: PHOTO # 0204

NOTE - SEE SKETCH ATTACHED

F.O.H. photo # 0205

C:\Users\rmg\Desktop\desktop working files\Real Numbers\Exeter\2588_Westside drive\2588_Inspection.dwg, BLANK, 10/21/2020 11:28:28 AM, rmg



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- (WM) WATER METER
- (SP) SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

DATE: 10/29/20

STREET ADDRESS:

1 Scammon Ln.

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

DRAIN TYPE	OUTLET
d YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x DOWNSPOUT	● INTO GROUND
r ROOF LEADER	⊙ ENTERS FOUNDATION

20120

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # ___ Tax Map # ___ Sub System ___ Street # Westside Dr. Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 0900 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill ___

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other Copper

Comments Basement was completely full of stuff saw where SS was but could not get to see where it exited the building through wall or into slab

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other ___

Comments Home owner states that she has 2 sump pits NO PUMPS and are covered over with card board. Basement to full of stuff to locate it

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments Basement to full to determine any of above. Home owner states she does not believe any other than sump pit X2 are present

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

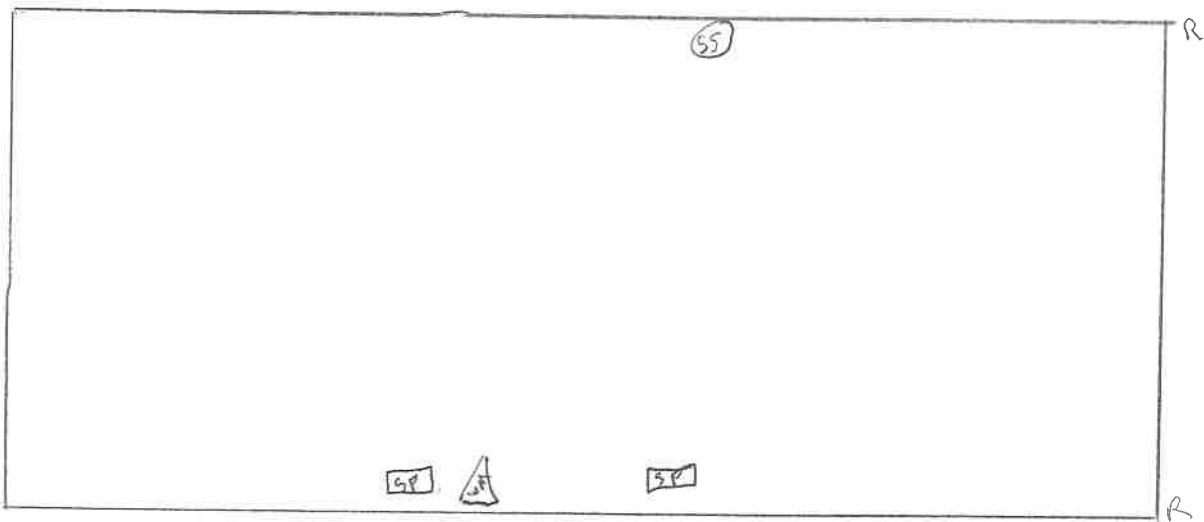
Cannot Locate Above Floor Level Distance from Sill ___ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other ___ Comments Photo # 0200 saw where w/m is located but could not get to it for measurements

General Comments: Basement was completely full of storage. NO Access to alot of information for report

NOTE - SEE SKETCH ATTACHED

F.O.H. photo # 0201



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- (WM) WATER METER
- (SP) SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

DATE: 10/29/20
 STREET ADDRESS:

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

1 Westside Dr.

20120

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 2 Blanche Ln. Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1128 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill 6'10"

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other Copper

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other sp photo # 0212, 0214

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments NONE

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

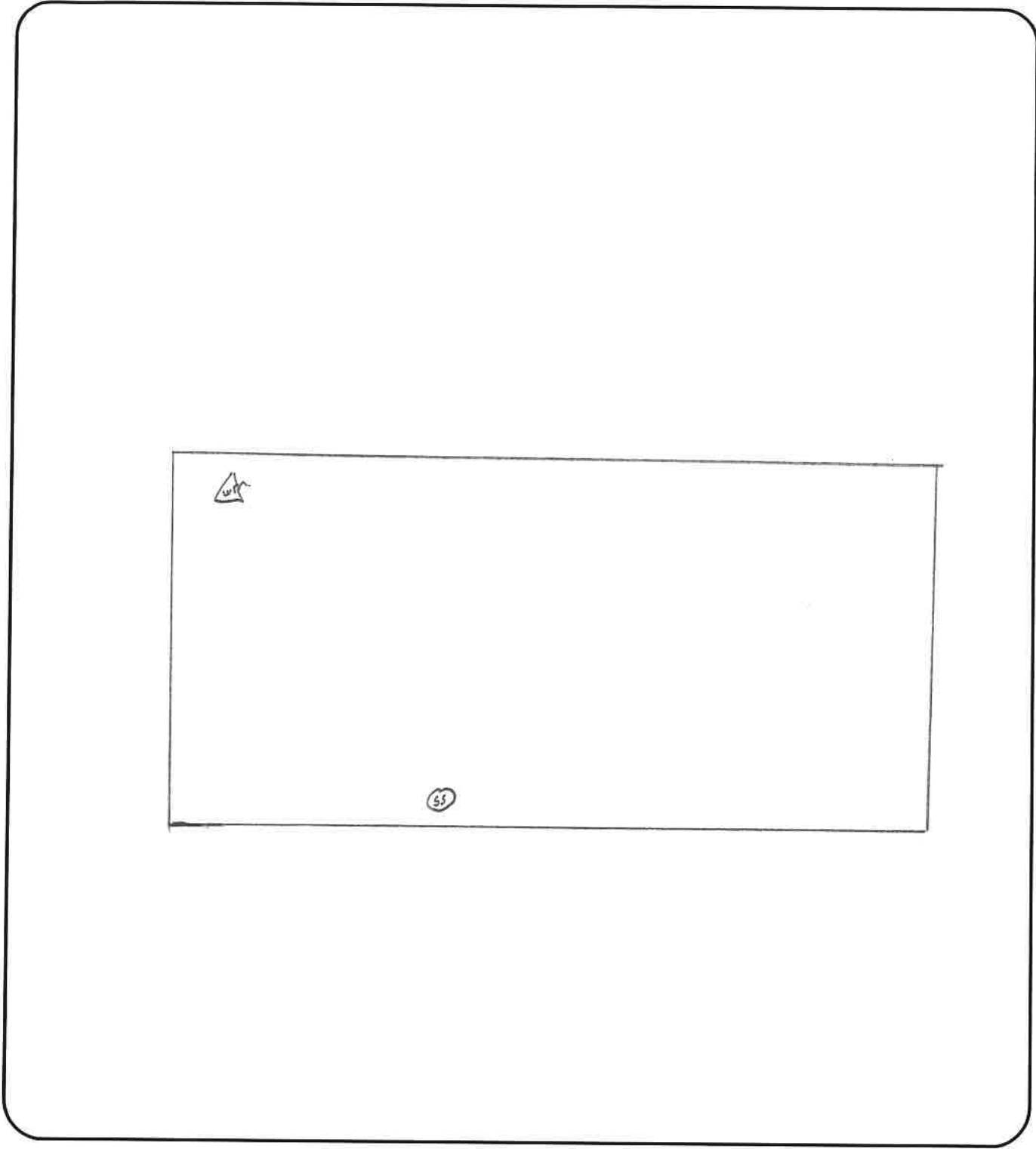
Cannot Locate Above Floor Level Distance from Sil 6'11" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments Photo # 0213

General Comments: _____

NOTE - SEE SKETCH ATTACHED

F.O.H. photo # 0215



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- (WM) WATER METER
- (SP) SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

- OBSERVED EXTERIOR DRAIN ITEMS LEGEND:**
- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10/29/20

STREET ADDRESS:
 2 Blanche LN

BY#: _____

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 2 Silvio Dr. Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 0927 Unsuccessful, Left Flyer Not Admitted Other Refusal

2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation _____ RL into Ground _____ RL Onto Surface _____

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments _____

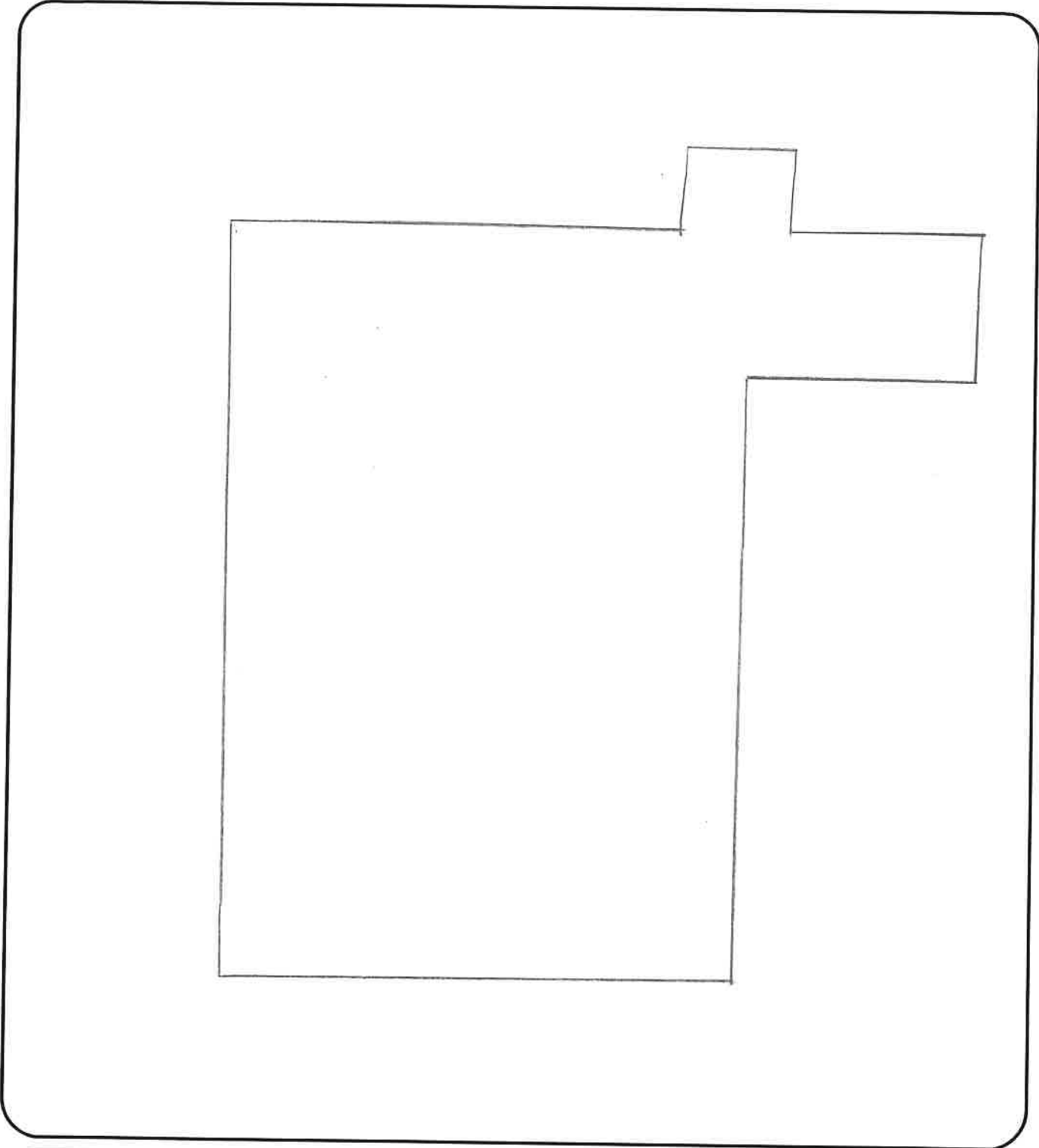
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sil _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: Refusal due to Covid.

NOTE - SEE SKETCH ATTACHED



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- ⊙ SS SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- △ WM WATER METER
- SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10/29/20

STREET ADDRESS: 2

Silvio Dr.

HOUSE SURVEY



2020

See Comments

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 4 Blanche LN Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1124 Unsuccessful, Left Flyer Not Admitted Other complete

2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

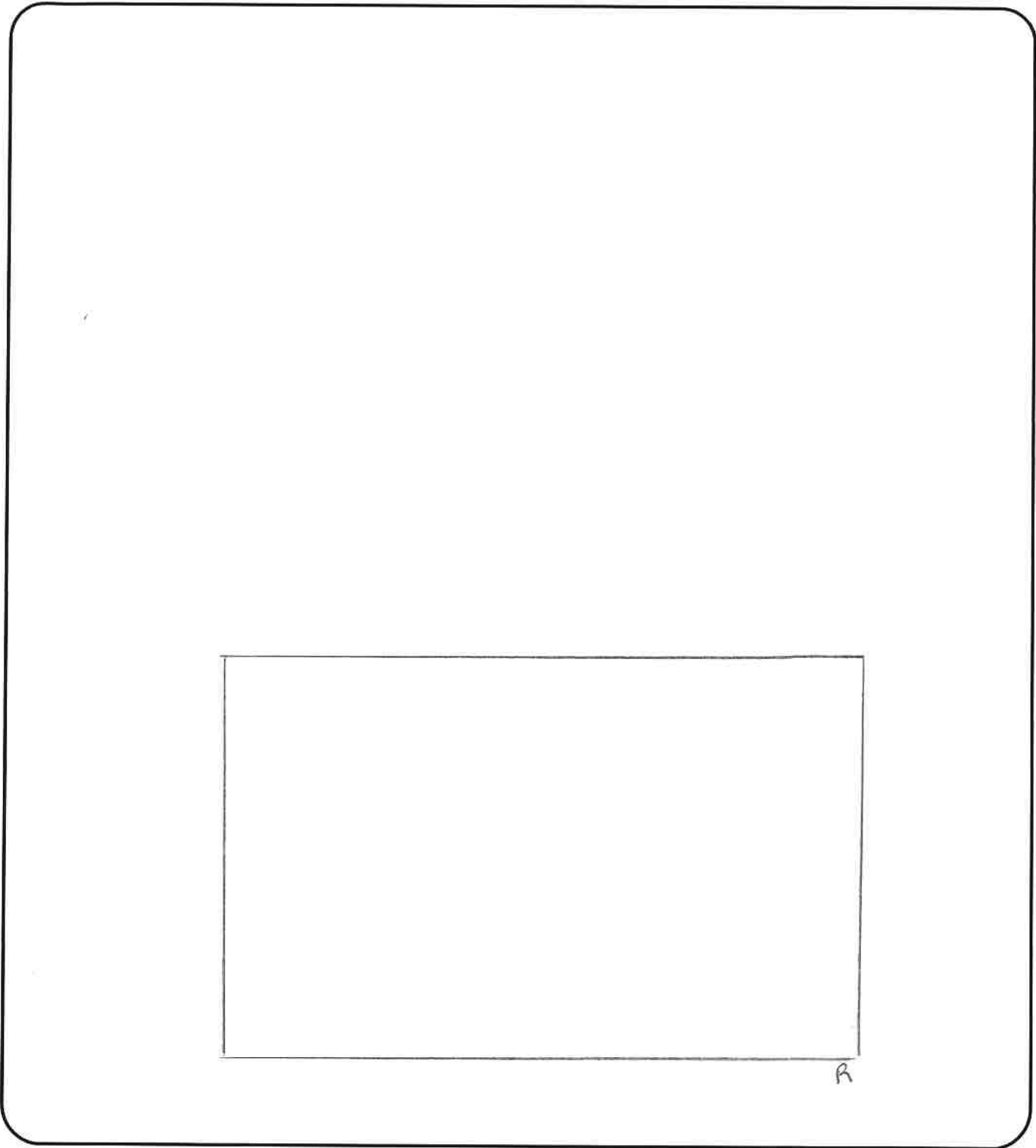
Cannot Locate Above Floor Level Distance from Sil _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: Gave Home owner a flyer on 1st visit. She wants to schedule. Will contact town to do online insp. husband call and spoke to Dennis V. and

NOTE - SEE SKETCH ATTACHED

Told him it was OK to do outside insp. only



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- (WM) WATER METER
- (SP) SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: _____

STREET ADDRESS: 4
Blanche
LN

BY#: _____

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # ___ Tax Map # ___ Sub System ___ Street # 5 Scammon Ln Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1030 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill 6'9"

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other Copper

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments NONE

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

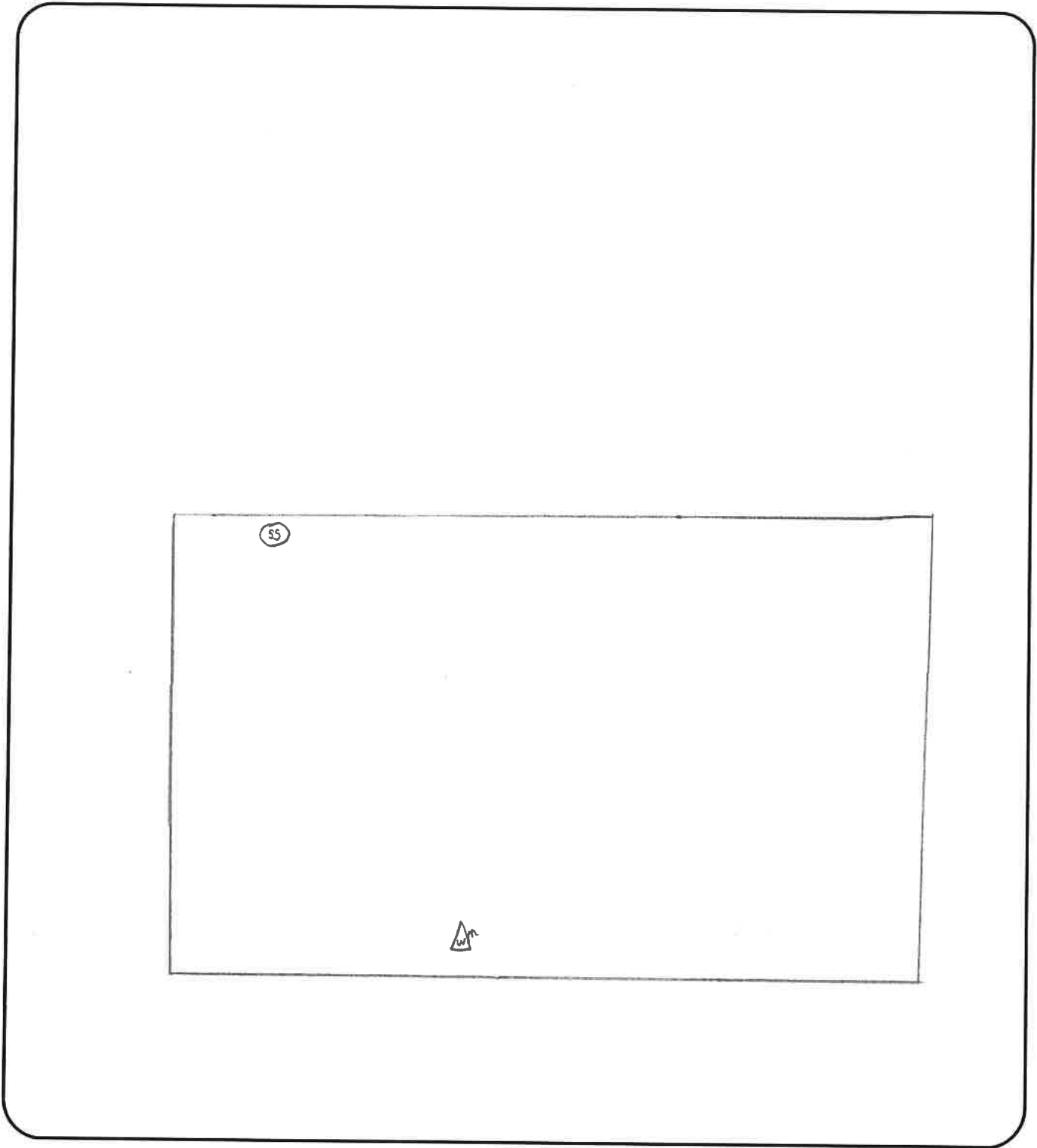
Cannot Locate Above Floor Level Distance from Sil 6'10" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments photo # 0206

General Comments: _____

NOTE - SEE SKETCH ATTACHED

F.O.H. photo # 0207



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- △ WM WATER METER
- SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10/29/20

STREET ADDRESS:

5 Scanmon Ln.

BY#: _____

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 5 SILVIO DR Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 0930 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill 8' 2"
Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other Copper

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments NONE

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation Ø RL into Ground Ø RL Onto Surface Ø

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NO RL Present

7. Water Service Information:

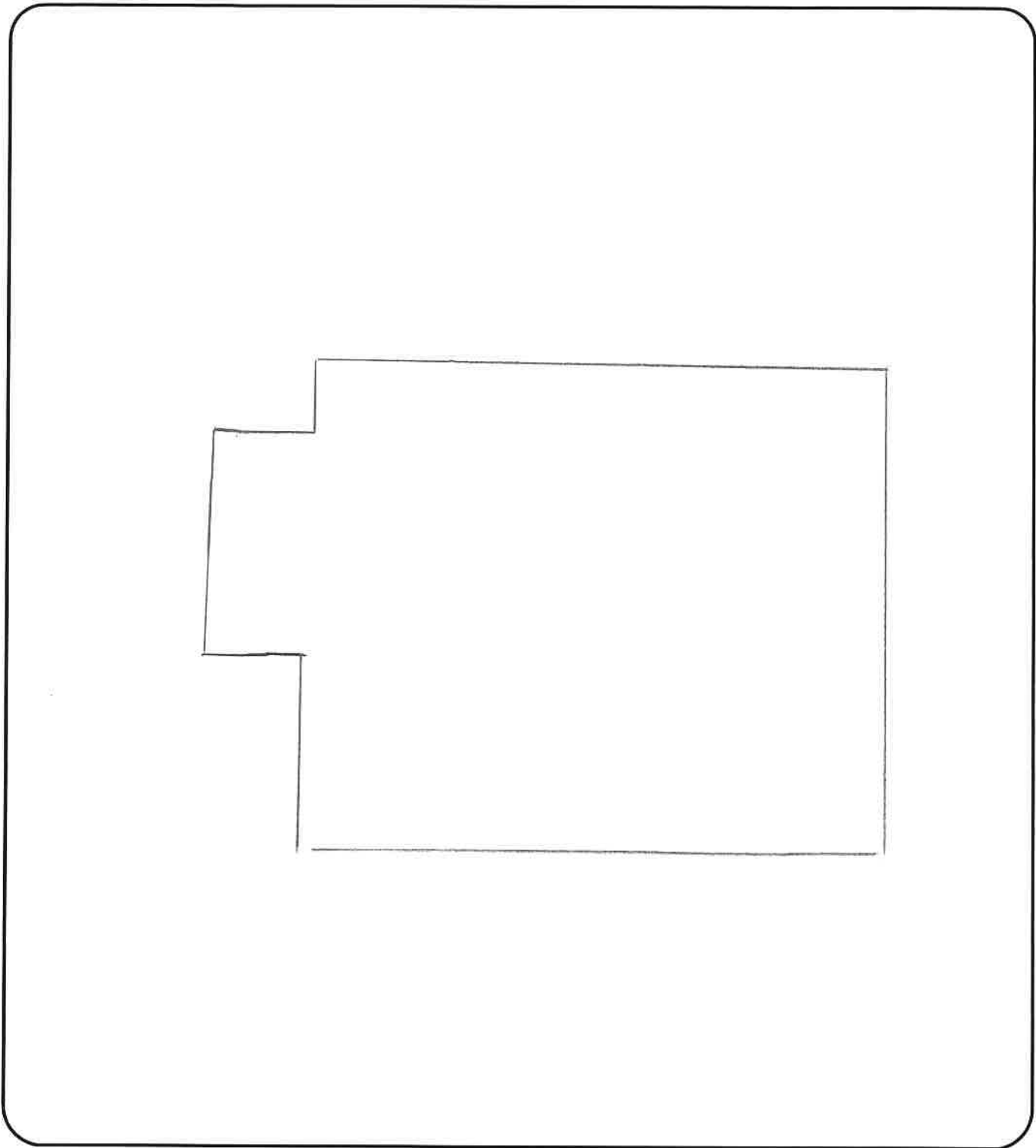
Cannot Locate Above Floor Level Distance from Sil 6' 10" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: Water Service photo# 0202

NOTE - SEE SKETCH ATTACHED

F.O.H. photo# 0203



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- WM WATER METER
- SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10/29/20

STREET ADDRESS:

#5 Silvio Dr.

BY#: _____

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # G Scammon Ln Interviewer Randy / Sohn

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

outside only

Initial Visit: Date 10/29/20 Time: 1114 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 11/2/20 Time: 0925 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 11/5/20 Time: 1600 Unsuccessful, Left Flyer Not Admitted Other _____

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments _____

2. Is there a basement?

Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information?

Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump?

Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

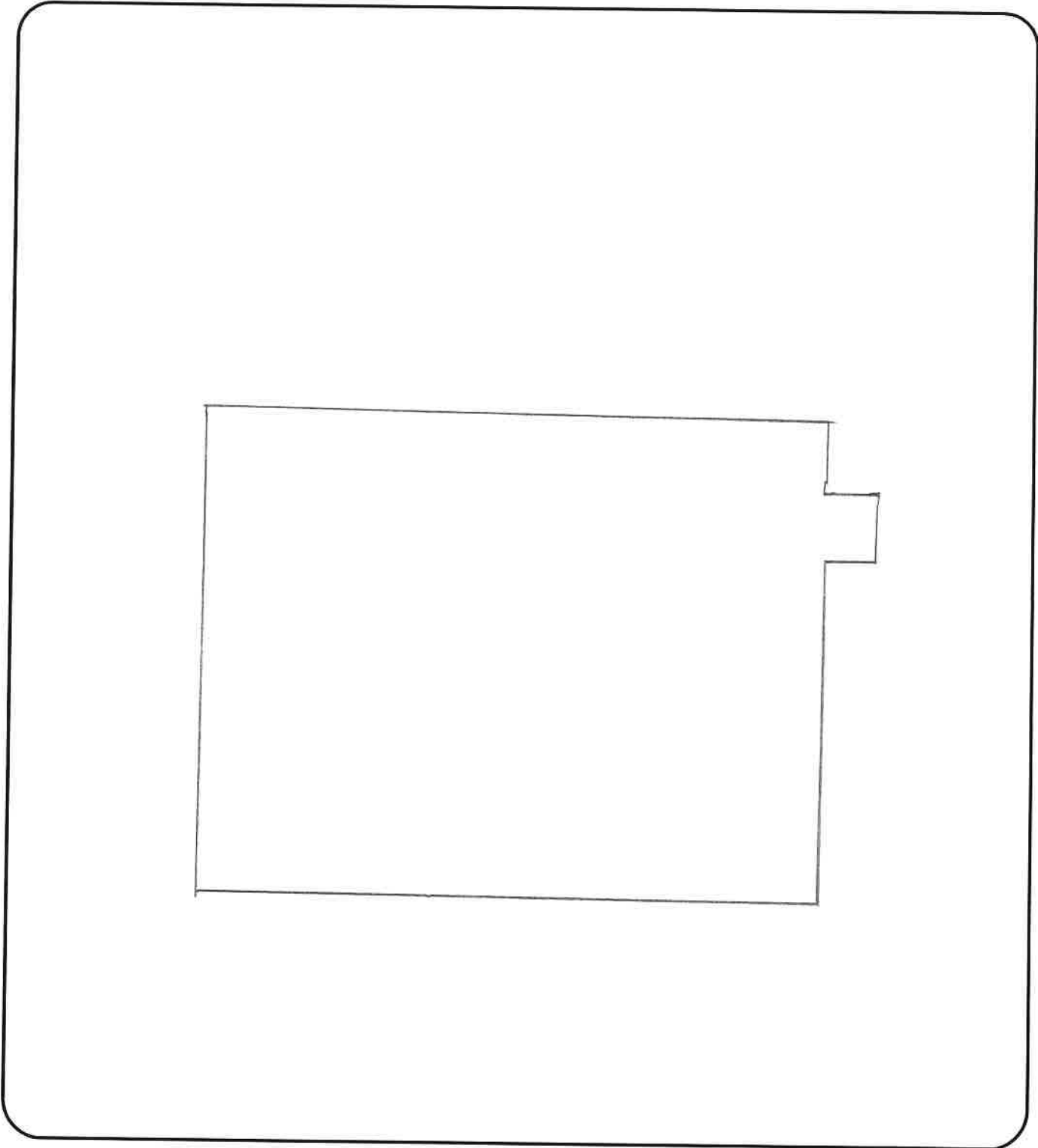
Cannot Locate Above Floor Level Distance from Sil _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: _____

NOTE - SEE SKETCH ATTACHED

F.O.H photo # 0229



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- ⊙ SS SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- ⚠ WM WATER METER
- ⊠ SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: _____
STREET ADDRESS: 6
SCAMMON LN.

20120

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 7 Scammon Ln Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1044 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments home owner states sp takes care of water in basement

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill 6' 11"

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other ___

Comments ___

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other sp photo # 0208, 0209

Comments ___

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments ___

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

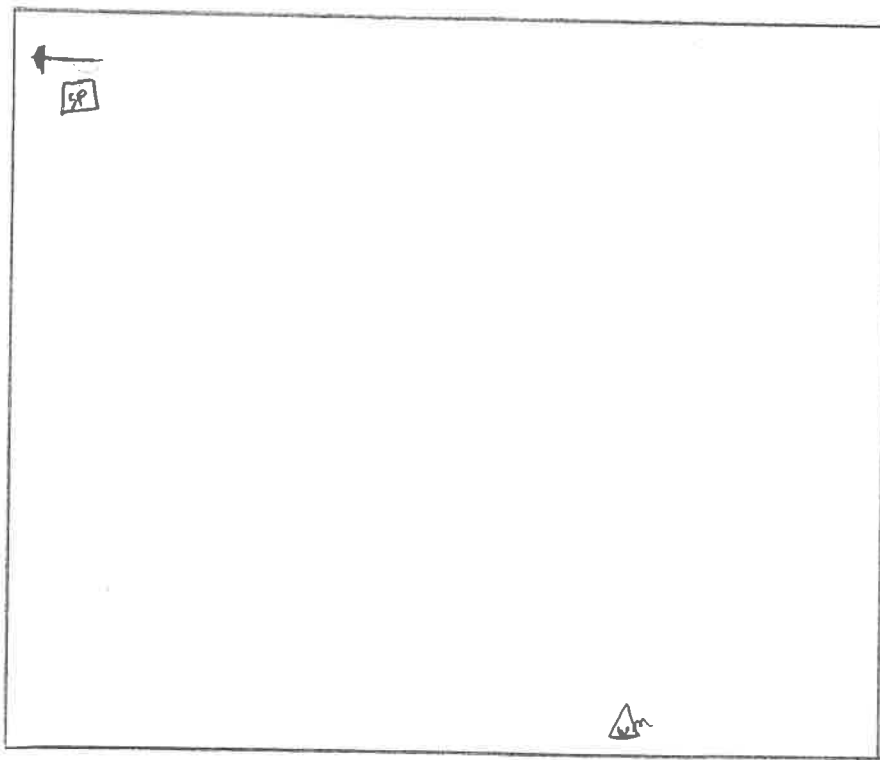
Cannot Locate Above Floor Level Distance from Sill 6' 11" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other ___ Comments photo # 0210

General Comments: ___

NOTE - SEE SKETCH ATTACHED

F.O.H. photo # 0211



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- ⊙ SS SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- △ WM WATER METER
- SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

DATE: 10/29/20

STREET ADDRESS:

7 Scammon Ln

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | DRAIN TYPE | OUTLET |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

20120

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 8 SCAMMON LN Interviewer Randy / JOHN

Multi-Unit Res Single Unit Res Commercial # of Units _____ House Vacant outside only

Initial Visit: Date 10/29/20 Time: 1120 Unsuccessful, Left Flyer Not Admitted Other _____

2nd Visit: Date 11/3/20 Time: 0827 Unsuccessful, Left Flyer Not Admitted Other _____

3rd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____
Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

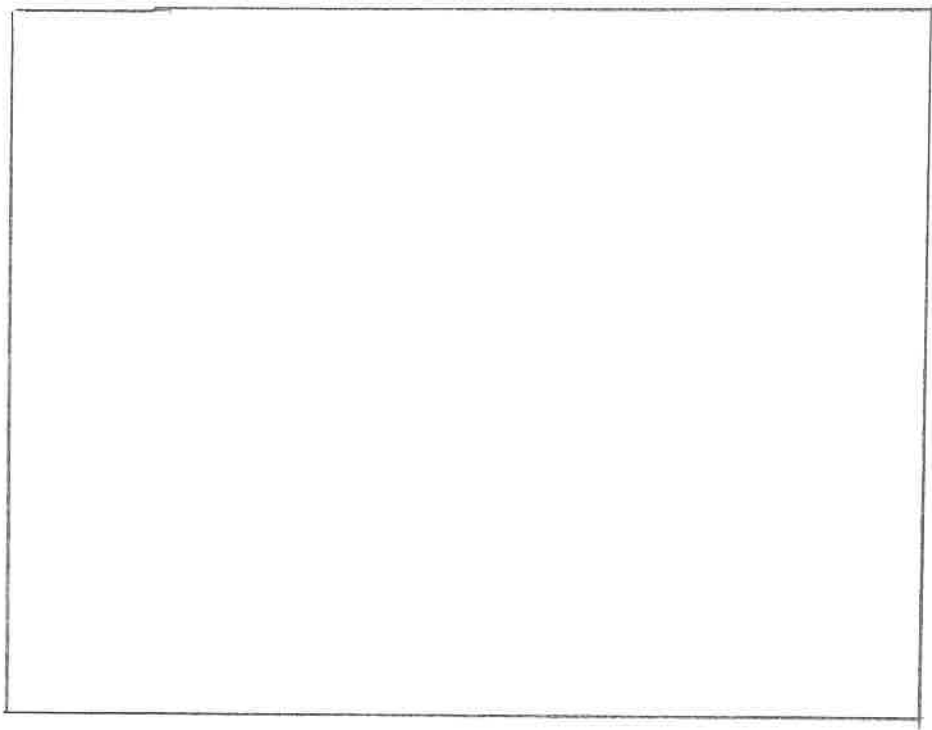
Cannot Locate Above Floor Level Distance from Sil _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: Home owner call out shop and stated no inside insp. BUT will allow outside insp only.

NOTE - SEE SKETCH ATTACHED

F.O.H. PHOTO # 0228



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- (WM) WATER METER
- (SP) SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

DATE: _____
 STREET ADDRESS: 8
 Scammon

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

DRAIN TYPE	OUTLET
d YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x DOWNSPOUT	● INTO GROUND
r ROOF LEADER	⊙ ENTERS FOUNDATION

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 19 Westside Dr Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1158 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill 6' 7"

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other Copper

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other SP photo # 0217, 0218

Comments home owner states sump pump pit is always dry, Even though back yard is wet

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 2 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments Both RL into Ground discharge out the back of yard to surface.

7. Water Service Information:

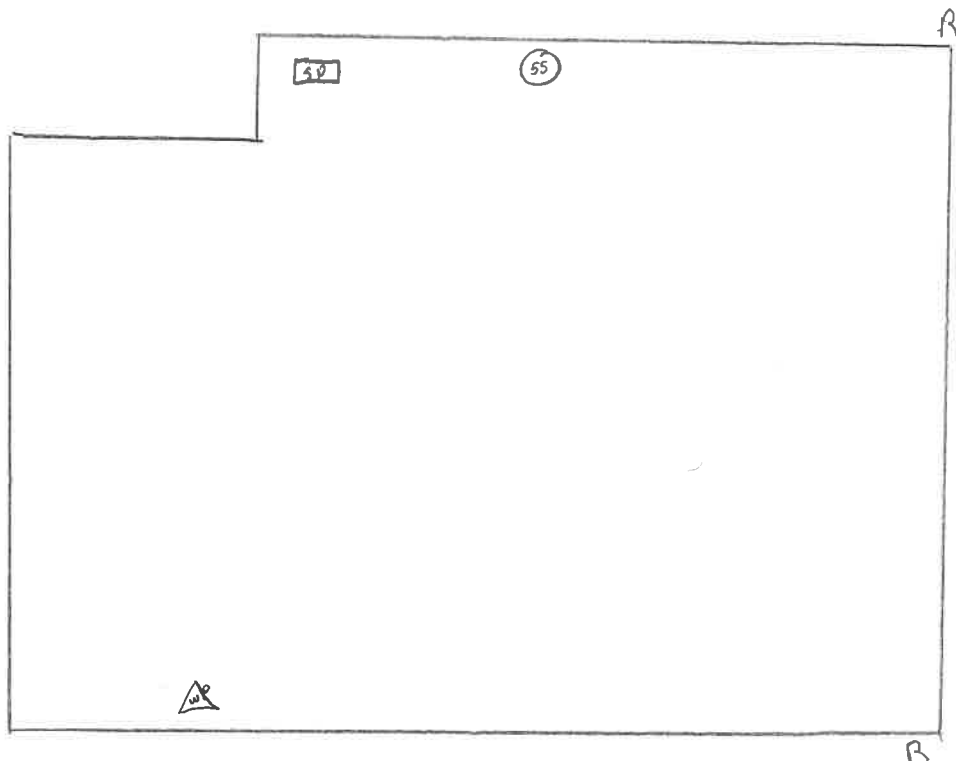
Cannot Locate Above Floor Level Distance from Sill 6' 8" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments photo # 0220

General Comments: _____

NOTE - SEE SKETCH ATTACHED

F.O.H. photo # 0219



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- Ⓢ SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- △ WM WATER METER
- SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- Ⓞ CO CLEAN OUTS/DRAIN IN BASEMENT
- Ⓟ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

DATE: 10/29/20

STREET ADDRESS:

19 Westside Dr.

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

DRAIN TYPE	OUTLET
d YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x DOWNSPOUT	● INTO GROUND
r ROOF LEADER	⊙ ENTERS FOUNDATION

BY#:

20120

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # ___ Tax Map # ___ Sub System ___ Street # 43 Westside Dr. Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1225 Unsuccessful, Left Flyer Not Admitted Other Complete

2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill ___

Above Floor Level-Distance from Invert to Sill ___ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other ___

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments NONE

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

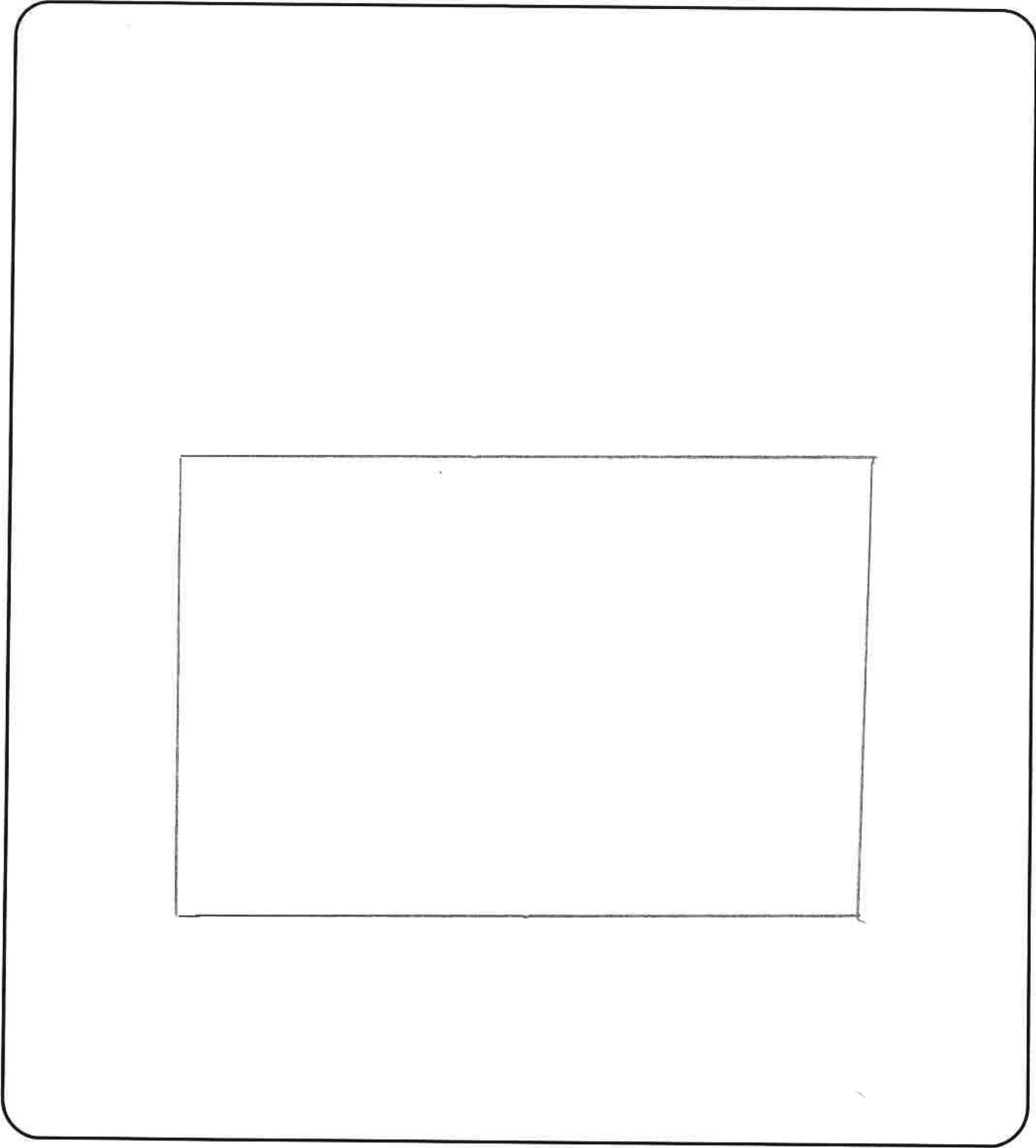
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sil ___ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other ___ Comments _____

General Comments: Basement has been converted into an apartment. Can not locate any of above items

NOTE - SEE SKETCH ATTACHED



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- (WM) WATER METER
- (SP) SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(s) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10/29/20

STREET ADDRESS: 43 West side Dr.

BY#: _____

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # ___ Tax Map # ___ Sub System ___ Street # 45 Westside Dr. Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1240 Unsuccessful, Left Flyer Not Admitted Other ___
2nd Visit: Date 11/2/20 Time: 0940 Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date 11/5/20 Time: 1539 Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation _____ RL into Ground _____ RL Onto Surface _____

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments _____

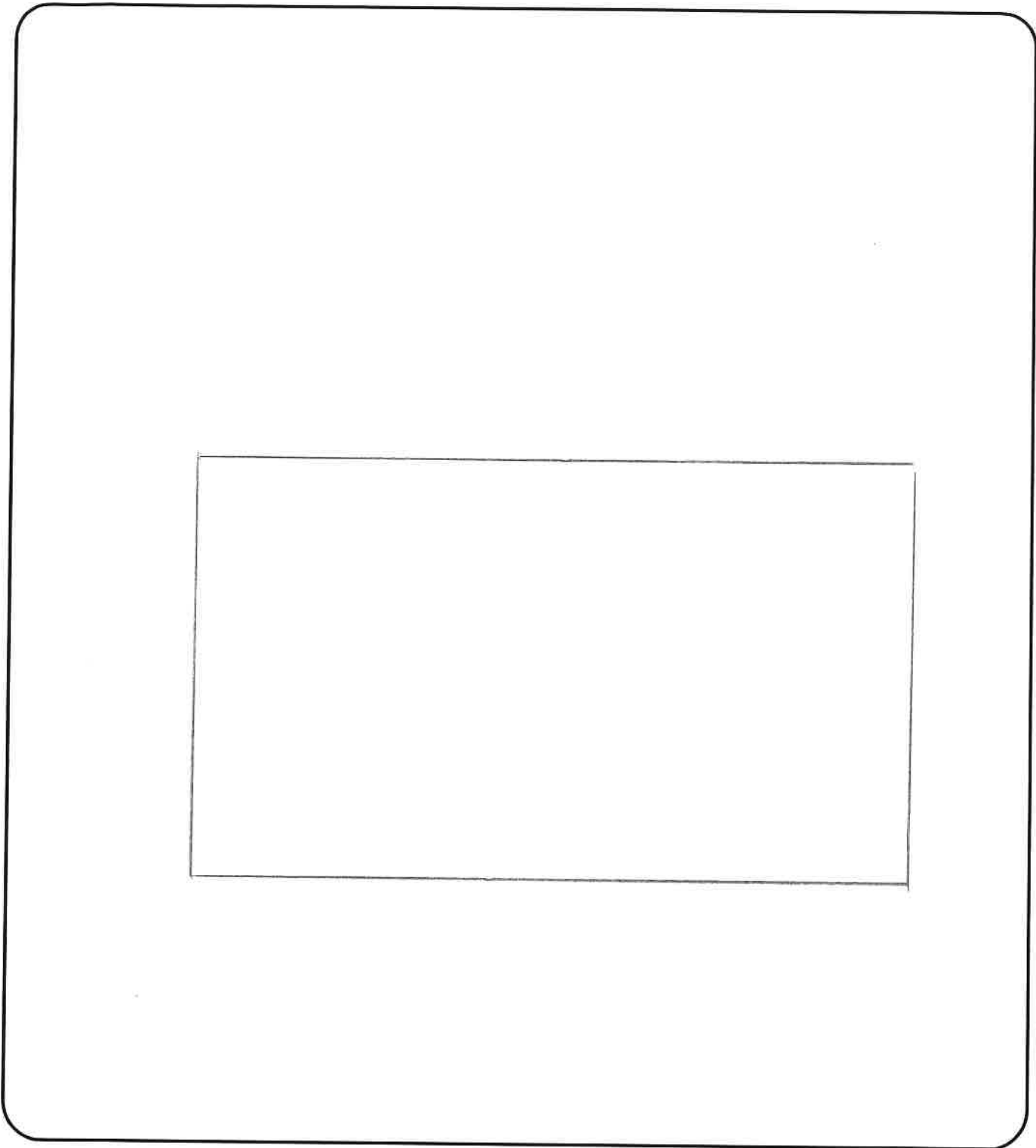
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: home owner took flyer and states she will make an appointment
Large dogs very aggressive not comfortable with out side insp

NOTE - SEE SKETCH ATTACHED



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- (WM) WATER METER
- (SP) SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: _____

STREET ADDRESS:

45 Westside Dr.

BY#: _____

20/20

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # ___ Tax Map # ___ Sub System ___ Street # 51 Westside Dr Interviewer Randy / JOHN

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1243 Unsuccessful, Left Flyer Not Admitted Other See Comments

2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

complete

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE according to Home owner.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____
Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

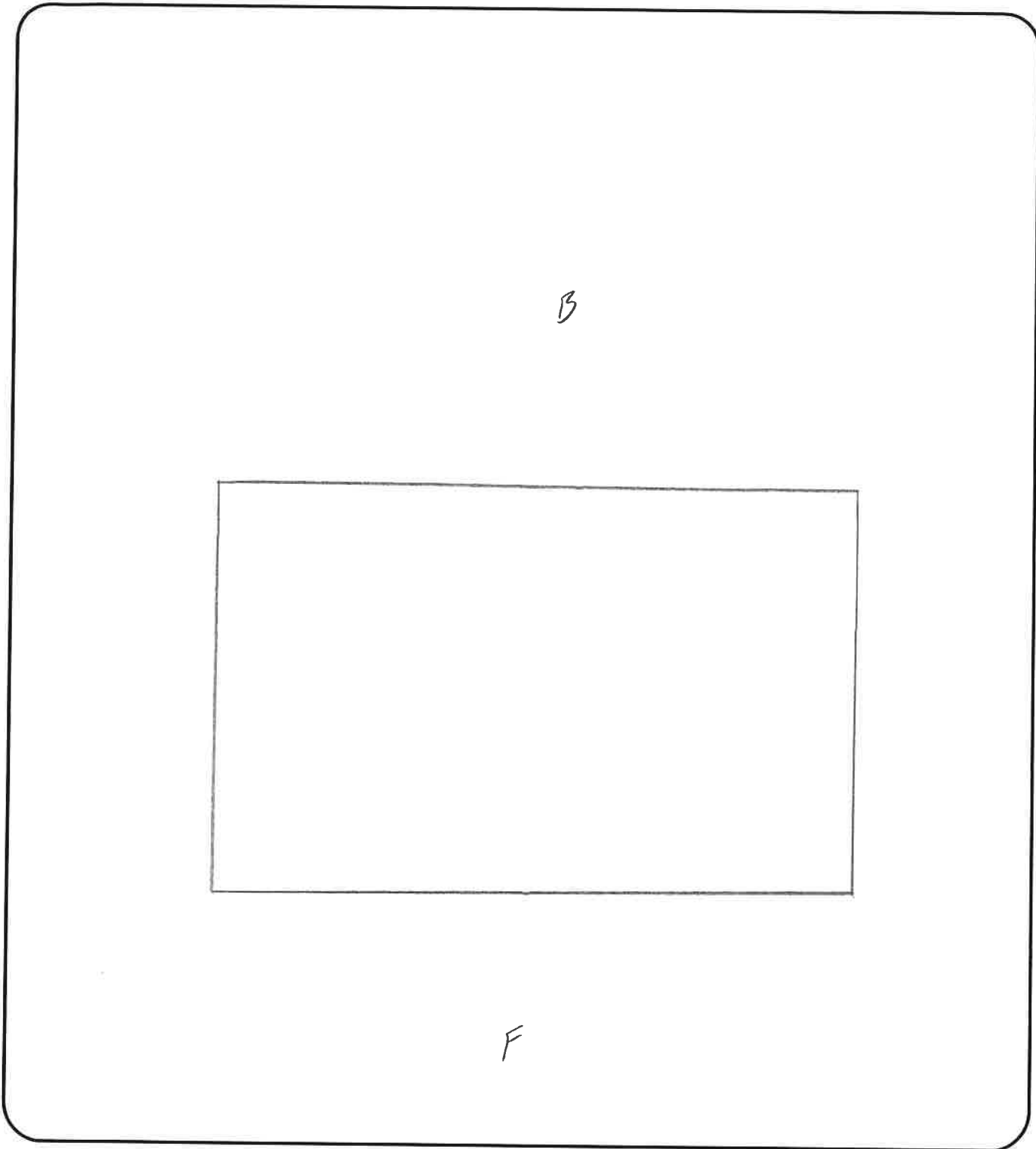
Cannot Locate Above Floor Level Distance from Sil _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: Home owner states he will be doing the online form from the town. he did allow us to do outside insp.

NOTE - SEE SKETCH ATTACHED

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OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- (SS) SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- (WM) WATER METER
- (SP) SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- (CO) CLEAN OUTS/DRAIN IN BASEMENT
- (PS) CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

DATE: 10/29/20
STREET ADDRESS: 51 Westside St.

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # ___ Tax Map # ___ Sub System ___ Street # 55 Westside Dr. Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1257 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments NONE

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill ___
Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other ___

Comments partially finished basement can sewer exit.

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other ___

Comments sp photo # 0223, 0224

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments Clean out was capped.

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation RL into Ground RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NONE

7. Water Service Information:

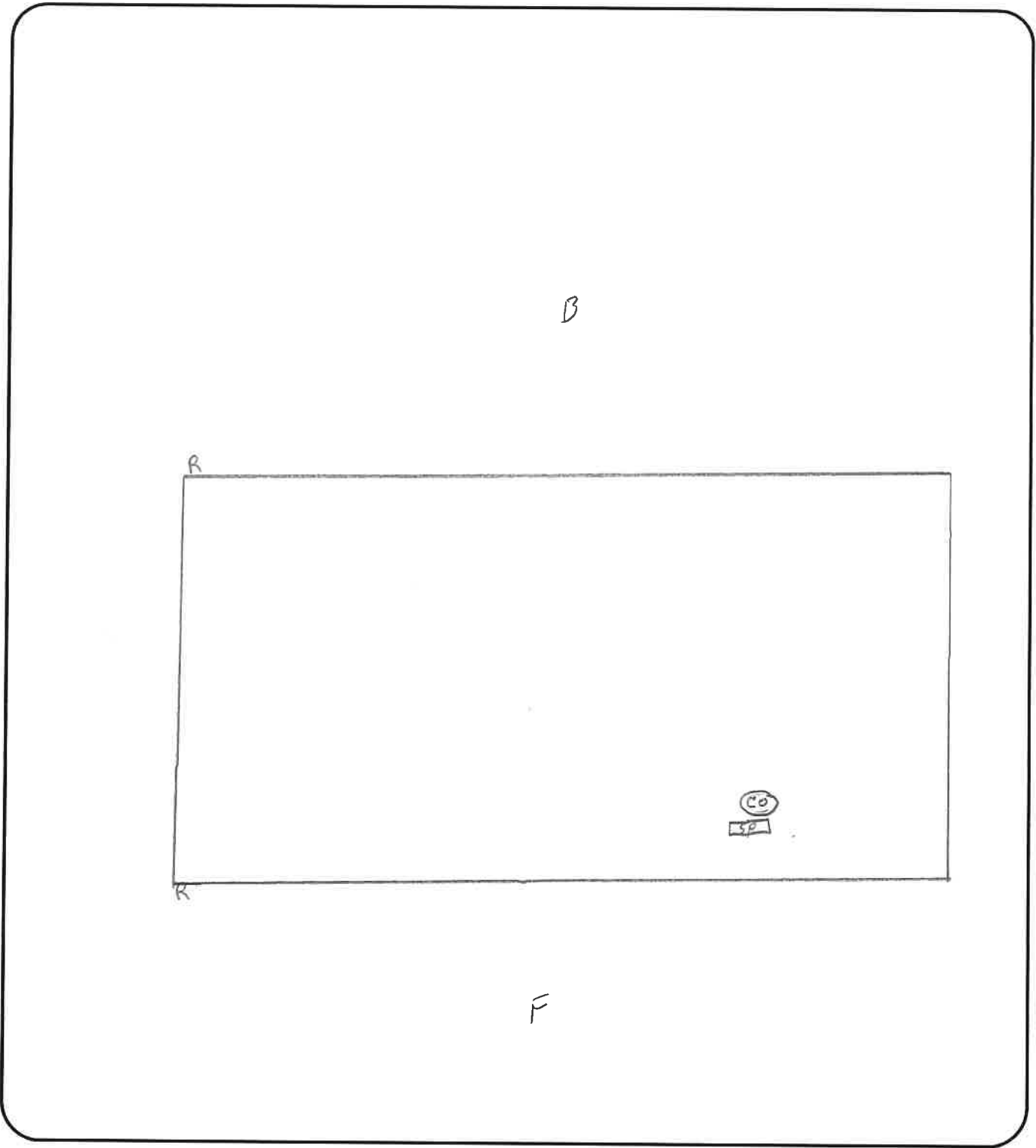
Cannot Locate Above Floor Level Distance from Sill 7'1" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other ___ Comments Photo # 0223

General Comments: _____

NOTE - SEE SKETCH ATTACHED

F. O. H. photo # 0225



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- ⊙ SS SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- ⚠ WM WATER METER
- SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

DATE: 10/29/20

STREET ADDRESS: 55 Westside Dr.

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

DRAIN TYPE	OUTLET
d YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x DOWNSPOUT	● INTO GROUND
r ROOF LEADER	⊙ ENTERS FOUNDATION

2020

HOUSE SURVEY

Westside Drive Area Conceptual Plan
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # ___ Tax Map # ___ Sub System ___ Street # 63 Westside Dr. Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1312 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 11/2/20 Time: 0838 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 11/5/20 Time: 1550 Unsuccessful, Left Flyer Not Admitted Other _____

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____
Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation _____ RL into Ground _____ RL Onto Surface _____

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments _____

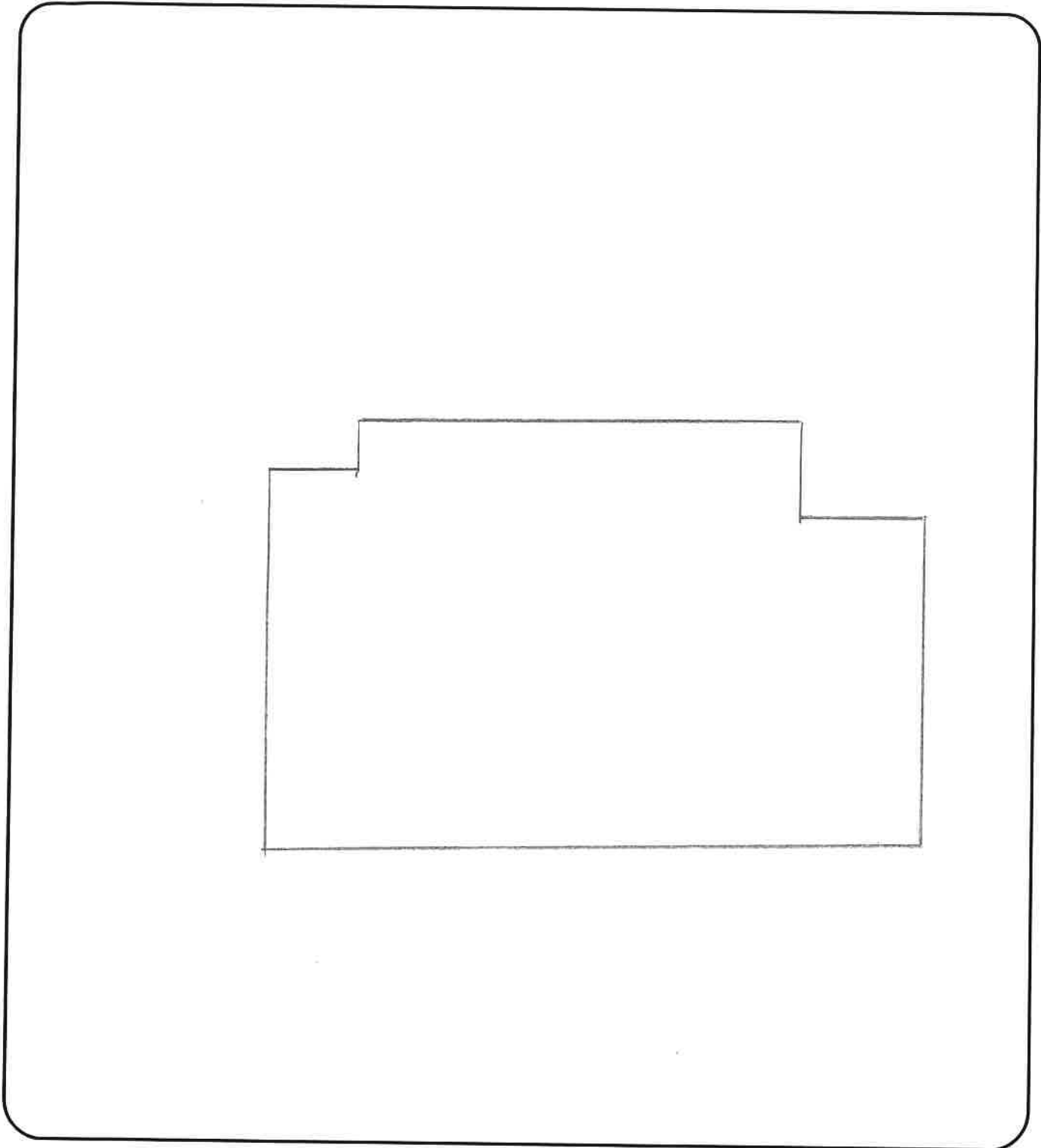
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sil _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: _____

NOTE - SEE SKETCH ATTACHED



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- ⊙ SS SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- △ WM WATER METER
- ⊠ SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

DRAIN TYPE	OUTLET
d YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x DOWNSPOUT	● INTO GROUND
r ROOF LEADER	⊙ ENTERS FOUNDATION

DATE: _____

STREET ADDRESS: 63
westside dr.

BY#: _____

20120

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 65 Westside Dr Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1315 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 11/2/20 Time: 0835 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 11/5/20 Time: 1551 Unsuccessful, Left Flyer Not Admitted Other _____

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation _____ RL into Ground _____ RL Onto Surface _____

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments _____

7. Water Service Information:

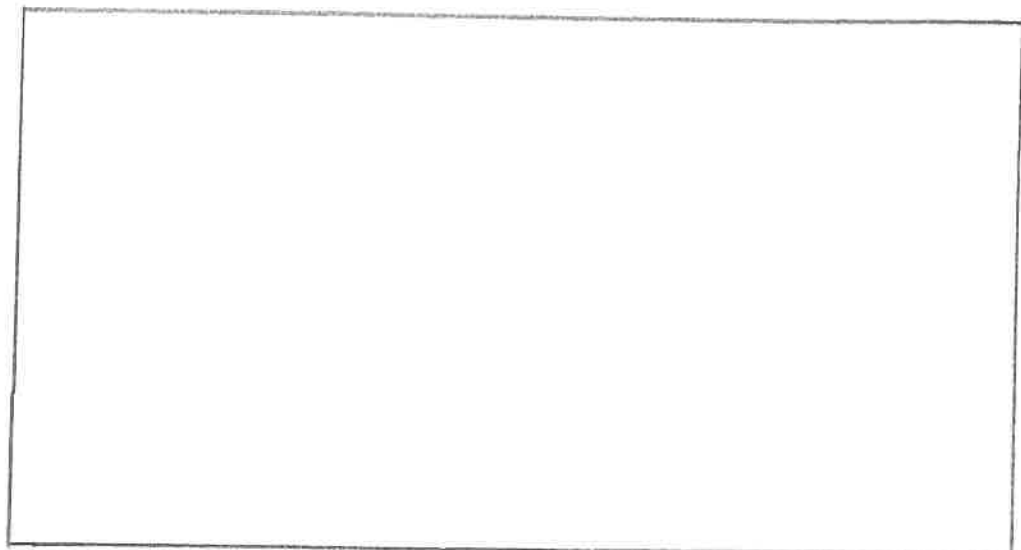
Cannot Locate Above Floor Level Distance from Sil _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: Home owner state he is NOT having insp. done.

NOTE - SEE SKETCH ATTACHED

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OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- ⊙ SS SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- ⚠ WM WATER METER
- ⊠ SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

DATE: _____

STREET ADDRESS: *65 Westside Dr.*

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

BY#: _____

20120

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 67 Westside Dr Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 1320 Unsuccessful, Left Flyer Not Admitted Other outside only
2nd Visit: Date 11/2/20 Time: 0830 Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date 11/5/20 Time: 1555 Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill _____

Above Floor Level-Distance from Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation _____ RL into Ground _____ RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments NO ACCESS TO BACK OF YARD due to Locked Fence.

7. Water Service Information:

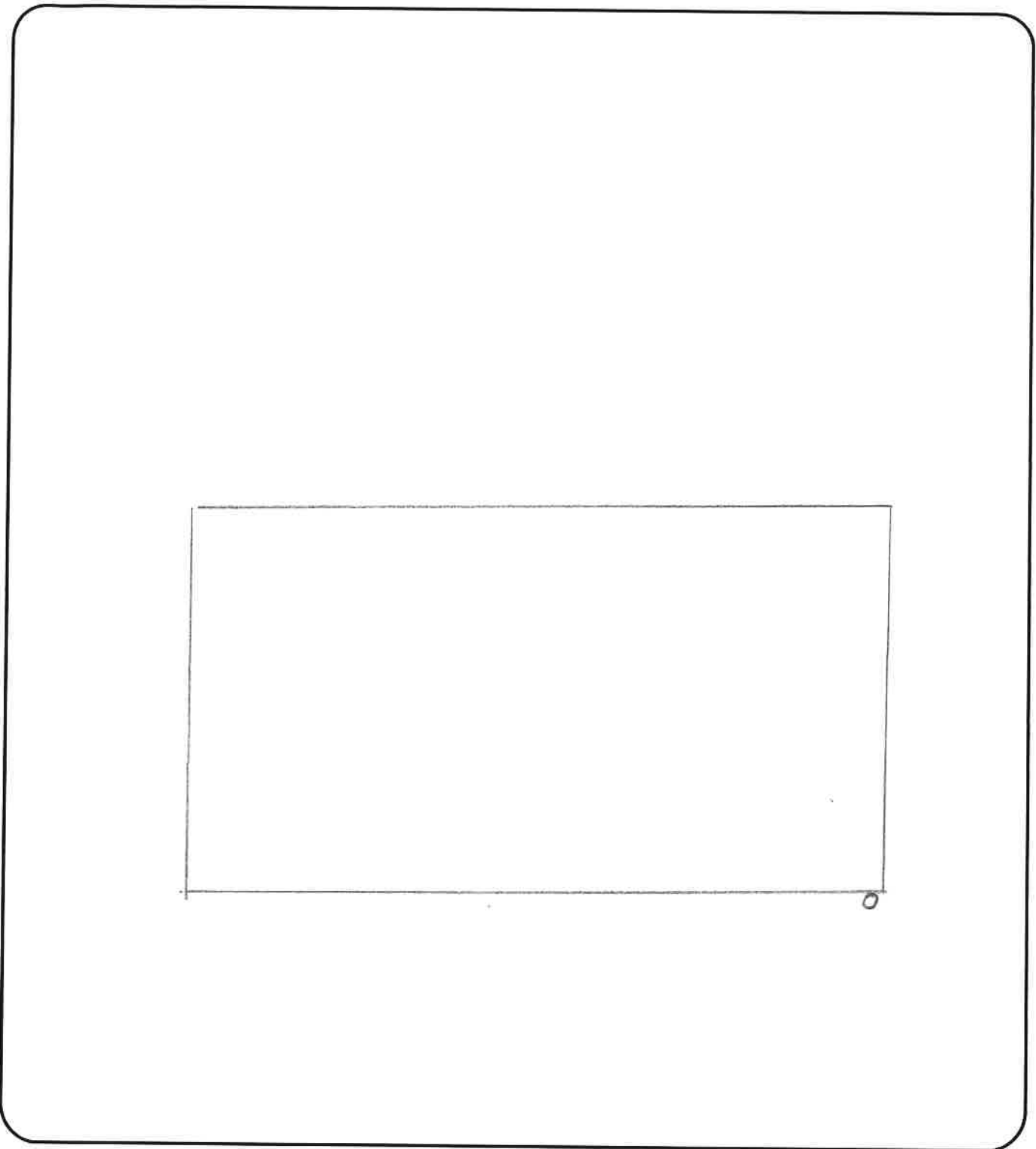
Cannot Locate Above Floor Level Distance from Sil _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments _____

General Comments: _____

NOTE - SEE SKETCH ATTACHED

F.O.H. PHOTO # 0227



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- ⊙ SS SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- ⊙ WM WATER METER
- ⊙ SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
Westside Drive Conceptual Planning
Exeter, NH

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: _____

STREET ADDRESS:
67 westside dr

BY#: _____

HOUSE SURVEY

**Westside Drive Area Conceptual Plan
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # ___ Tax Map # ___ Sub System ___ Street # 230 Front St Interviewer Randy / John

Multi-Unit Res Single Unit Res Commercial # of Units ___ House Vacant

Initial Visit: Date 10/29/20 Time: 0810 Unsuccessful, Left Flyer Not Admitted Other Complete
2nd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___
3rd Visit: Date ___ Time: ___ Unsuccessful, Left Flyer Not Admitted Other ___

1. Have the following occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments Home owner states they have only lived here for 7 months. Could not give any more info

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor

3. Sewer Invert Information? Cannot Locate Distance from Basement Floor to Sill 6' 8"

Above Floor Level-Distance from Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other ___

Comments _____

4. Is there a sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other photo # for sp 0195, sp discharge photo # 0198

Comments _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to Sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments _____

6. Any of the following present outside the building (Put quantity observed in spaced marked and indicate if connected to sewer)

Roof Leader (RL) into Foundation 0 RL into Ground 0 RL Onto Surface 5

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments none

7. Water Service Information:

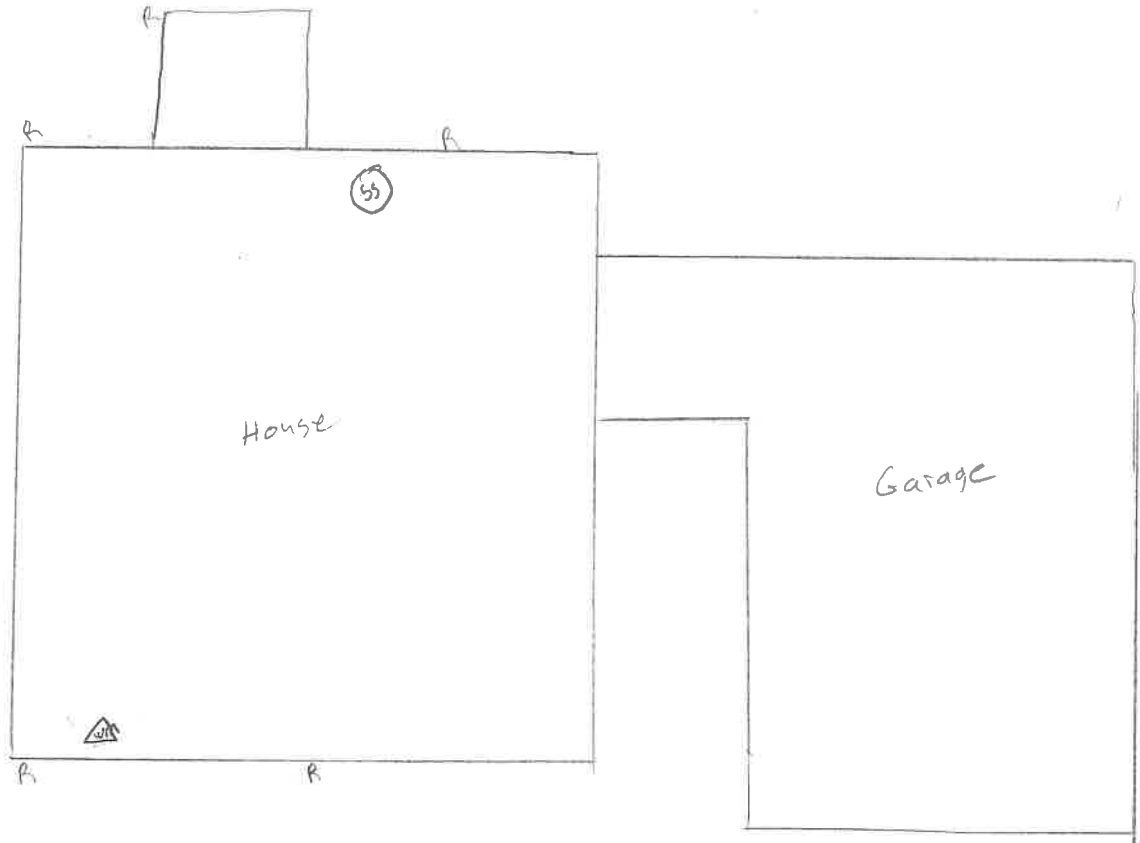
Cannot Locate Above Floor Level Distance from Sil 6' 8" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other ___ Comments water meter photo # 0196

General Comments: _____

NOTE - SEE SKETCH ATTACHED

F.O.H. photo # 0197



OBSERVED ITEMS LEGEND:

- ← W WATER SERVICE
- ⊙ SS SEWER SERVICE INTO SLAB
- S → SEWER SERVICE
- △ WM WATER METER
- SP SUMP PUMP W/ DISCHARGE
- D → DRAIN LINE
- ⊙ CO CLEAN OUTS/DRAIN IN BASEMENT
- ⊙ PS CENTRAL PLUMBING STACK(S) UNTO BASEMENT

House-to-House Survey
 Westside Drive Conceptual Planning
 Exeter, NH

DATE: 10/29/20

STREET ADDRESS: 230

Front St

OBSERVED EXTERIOR DRAIN ITEMS LEGEND:

- | DRAIN TYPE | OUTLET |
|--------------------------|---------------------|
| d YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x DOWNSPOUT | ● INTO GROUND |
| r ROOF LEADER | ⊙ ENTERS FOUNDATION |

HOUSE SURVEY

**J/I Engineering Services
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

TRY BACK @ 6:30

Lot # _____ Tax Map # _____ Sub System _____ Street # 1 BLANCHE LN Interviewer RM / RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 12:05 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 15:50 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1039 Unsuccessful Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

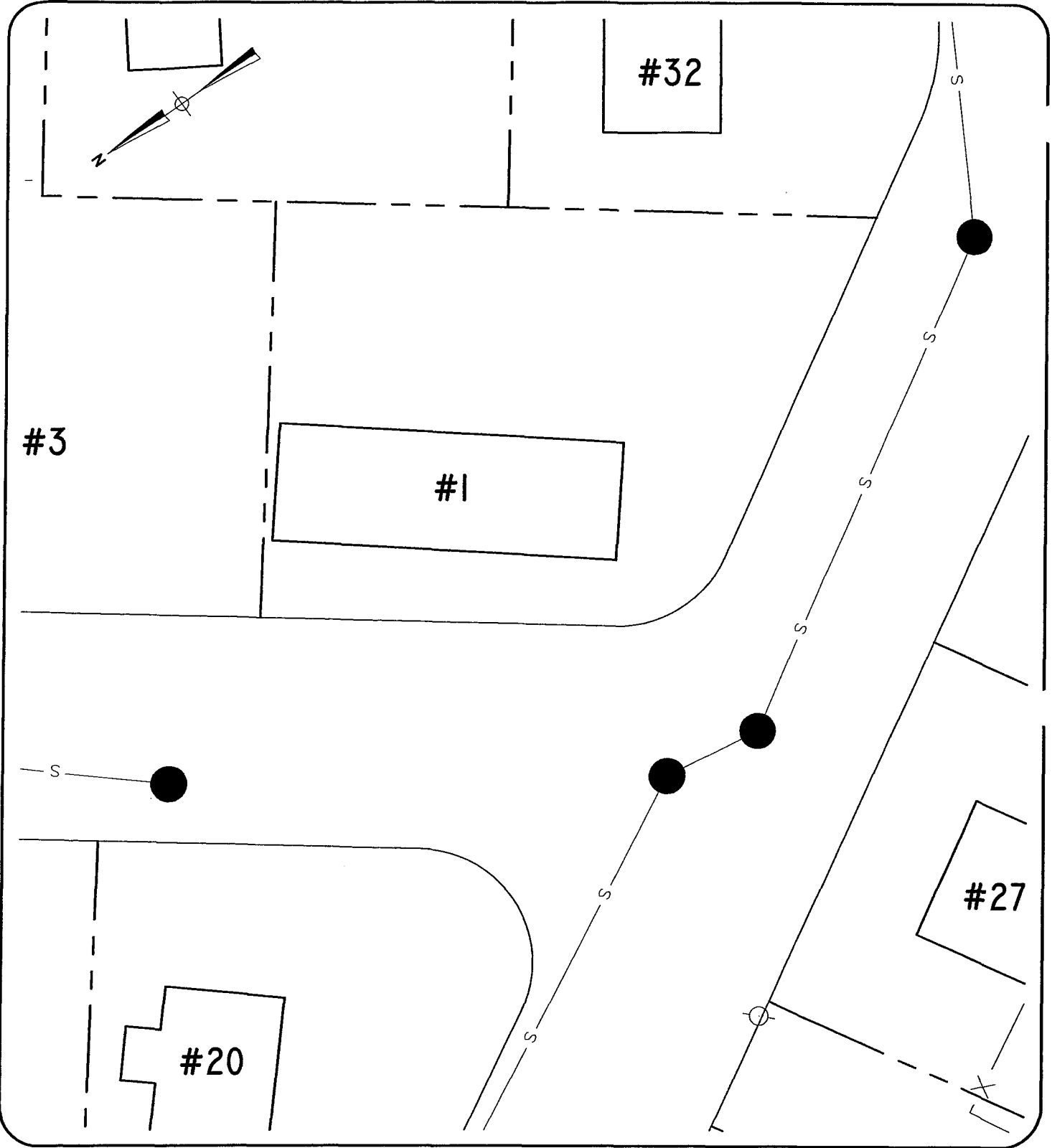
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE	OUTLET
d - YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x - DOWNSPOUT	● INTO GROUND
r - ROOF LEADER	⊙ ENTERS FOUNDATION

DATE: 10-8-09
 STREET: _____
BLANCHE LANE
 ADDRESS: #1
 BY#: RM

HOUSE SURVEY

VI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 2 BLANCHE LN Interviewer RM / RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date	<u>10-8-09</u>	Time: <u>12:10</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2 nd Visit: Date	<u>10-12-09</u>	Time: <u>10:51</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3 rd Visit: Date	<u>10-13-09</u>	Time: <u>16:52</u>	Unsuccessful	Not Admitted <input type="checkbox"/>	Other _____
	<u>10-21-09</u>	<u>17:20</u>			

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

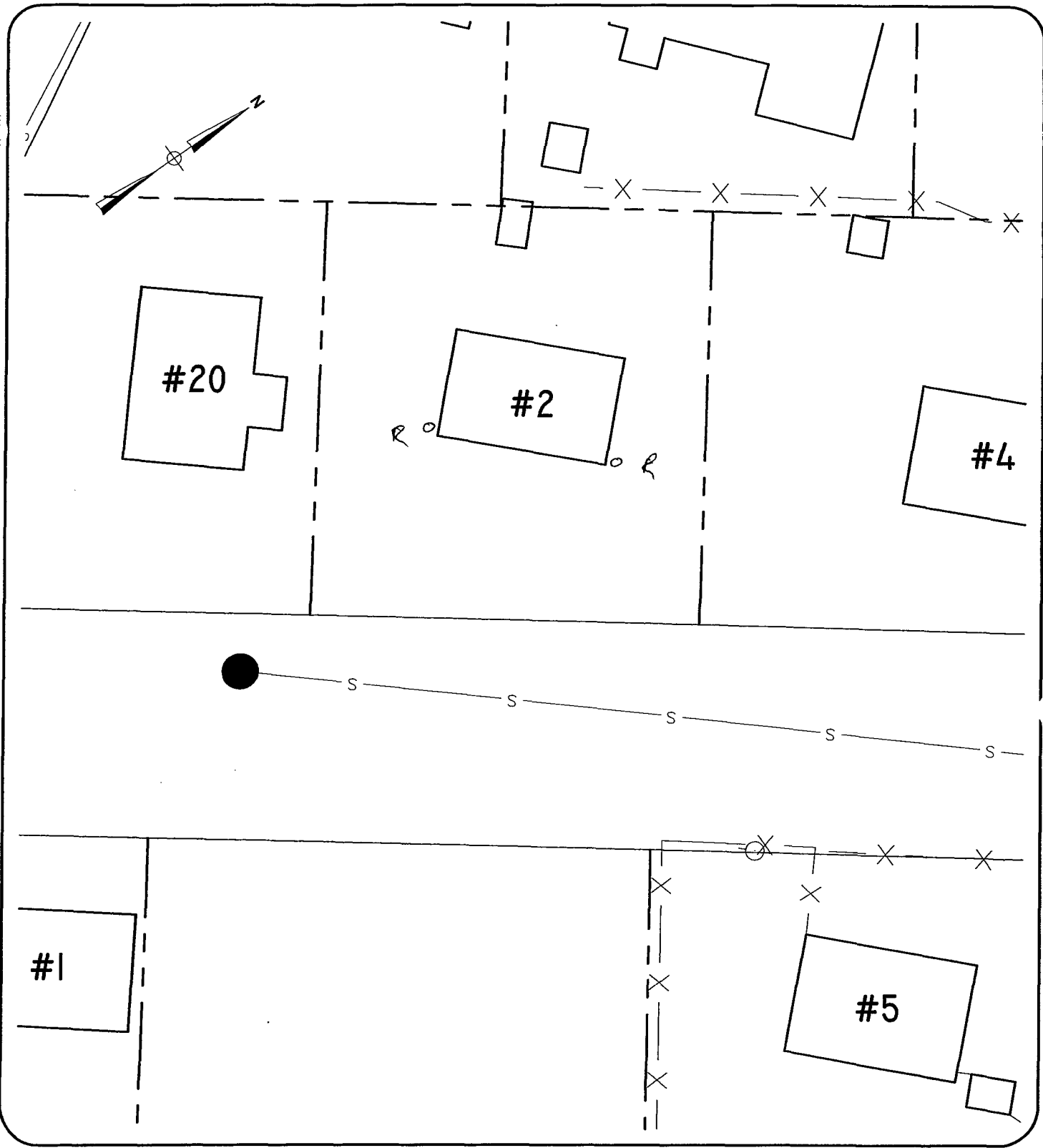
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
BLANCHE LANE
 ADDRESS: #2
 BY#: RM

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 3 BLANCHE LN Interviewer RM / RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 12:13 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-12-09 Time: 10:50 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: sewer clean out is located out front of bld.

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

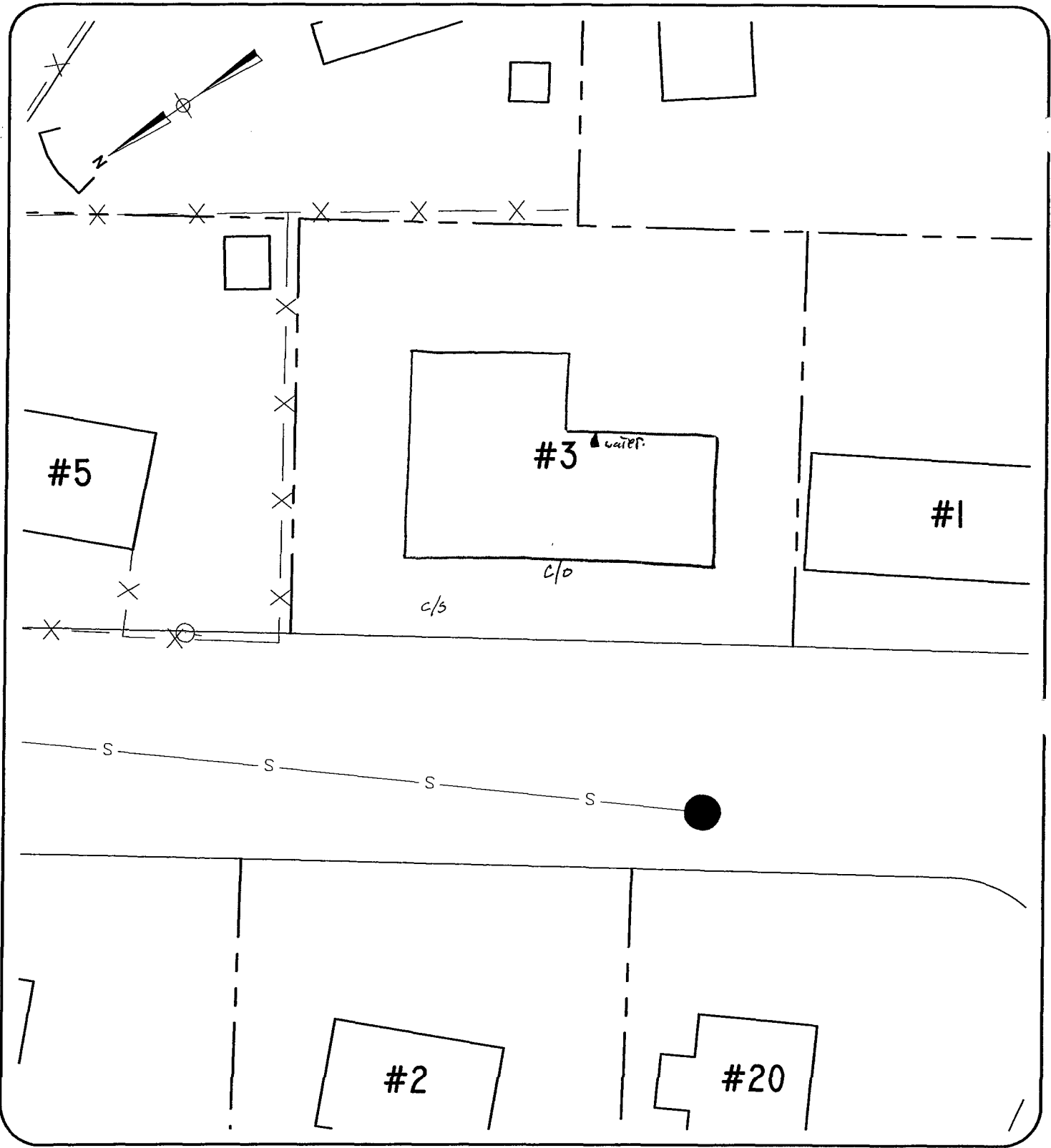
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
BLANCHE LANE
 ADDRESS: #3
 BY#: RM

HOUSE SURVEY

AI Engineering Services
Manchester, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 4 BLANCHE LN Interviewer RM / RST /

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 12:15 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-12-09 Time: 1043 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1256 Unsuccessful Not Admitted Other Refusal by owner.

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

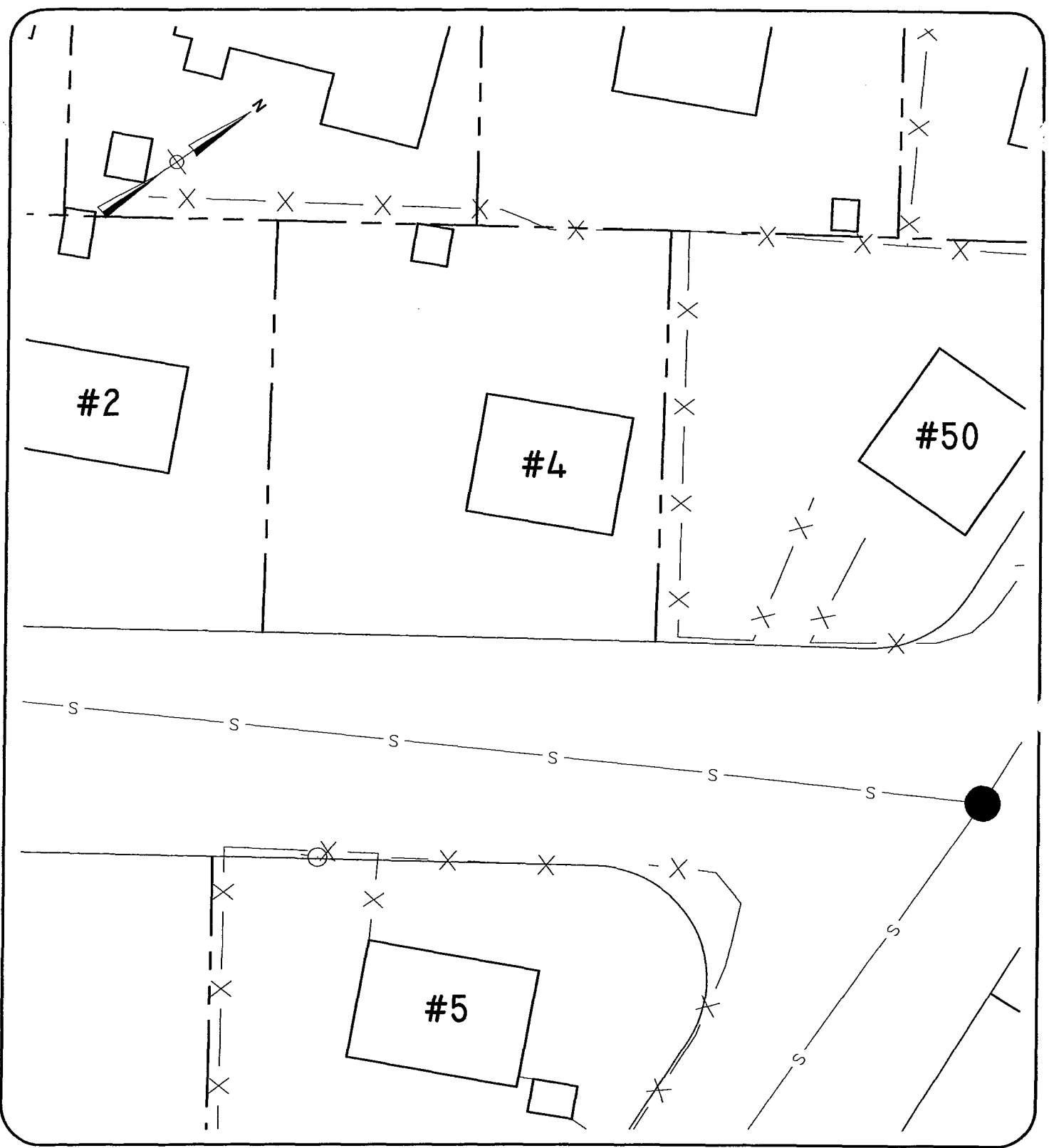
Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

Refusal by owner. would not give first name only last. (white) female.

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-8-09

STREET: _____
BLANCHE LANE

ADDRESS: #4

BY#: RM

HOUSE SURVEY

T Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 5 BLANCHE LN Interviewer RM/RSJ/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date <u>10-8-09</u> Time: <u>12:19</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2 nd Visit: Date <u>10-12-09</u> Time: <u>10:41</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3 rd Visit: Date <u>10-13-09</u> Time: <u>16:50</u>	Unsuccessful	Not Admitted <input type="checkbox"/>	Other _____
<u>10-13-09</u>	<u>17:35</u>	<u>Not Admitted</u>	<u>Not Admitted</u>

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

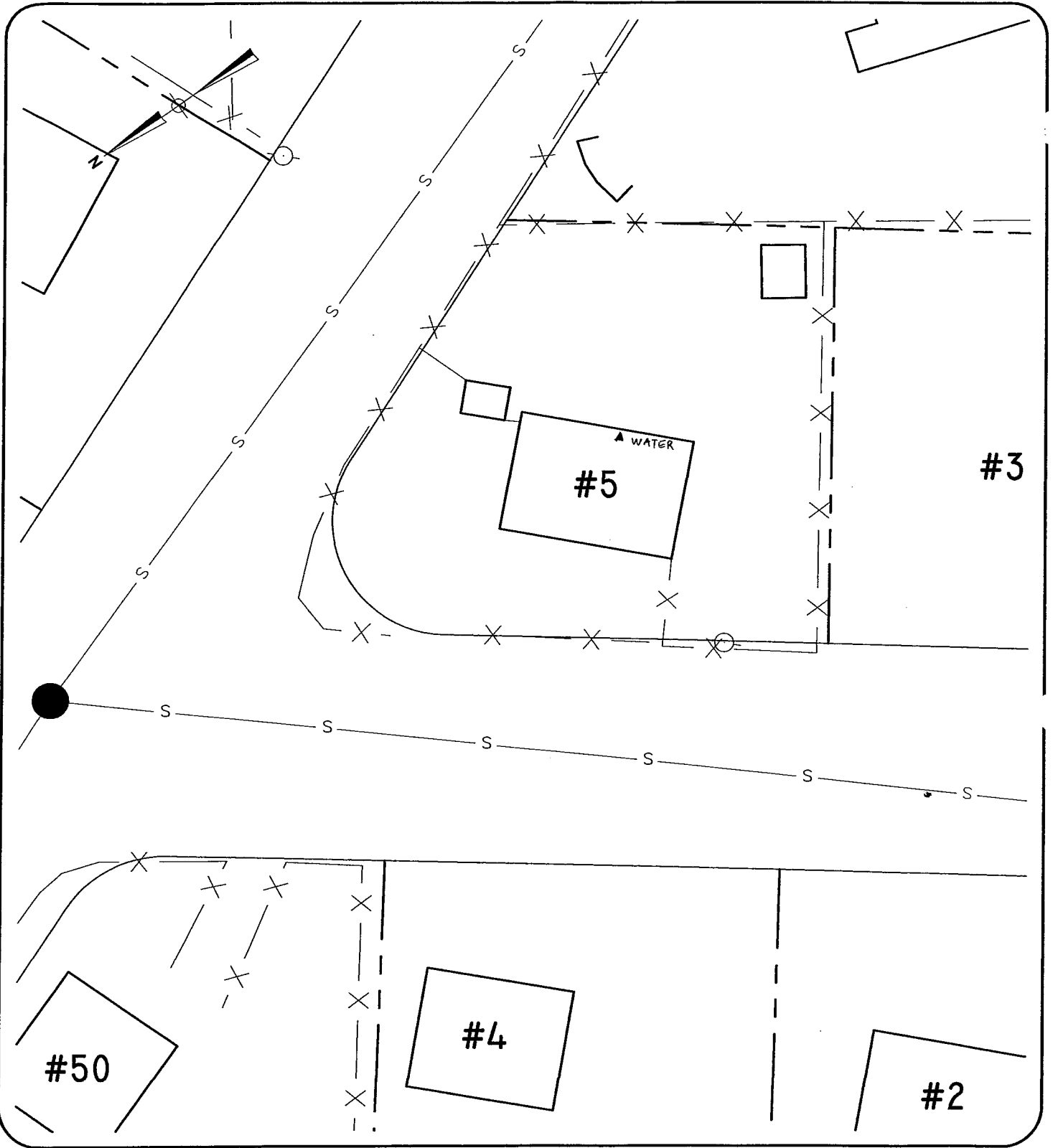
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-8-09

STREET: BLANCHE LANE

ADDRESS: #5

BY#: RM

HOUSE SURVEY

Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 1 Laporte Ave Interviewer AST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1618 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: Partially finished basement

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 96"

Above Floor Level – Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: None

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

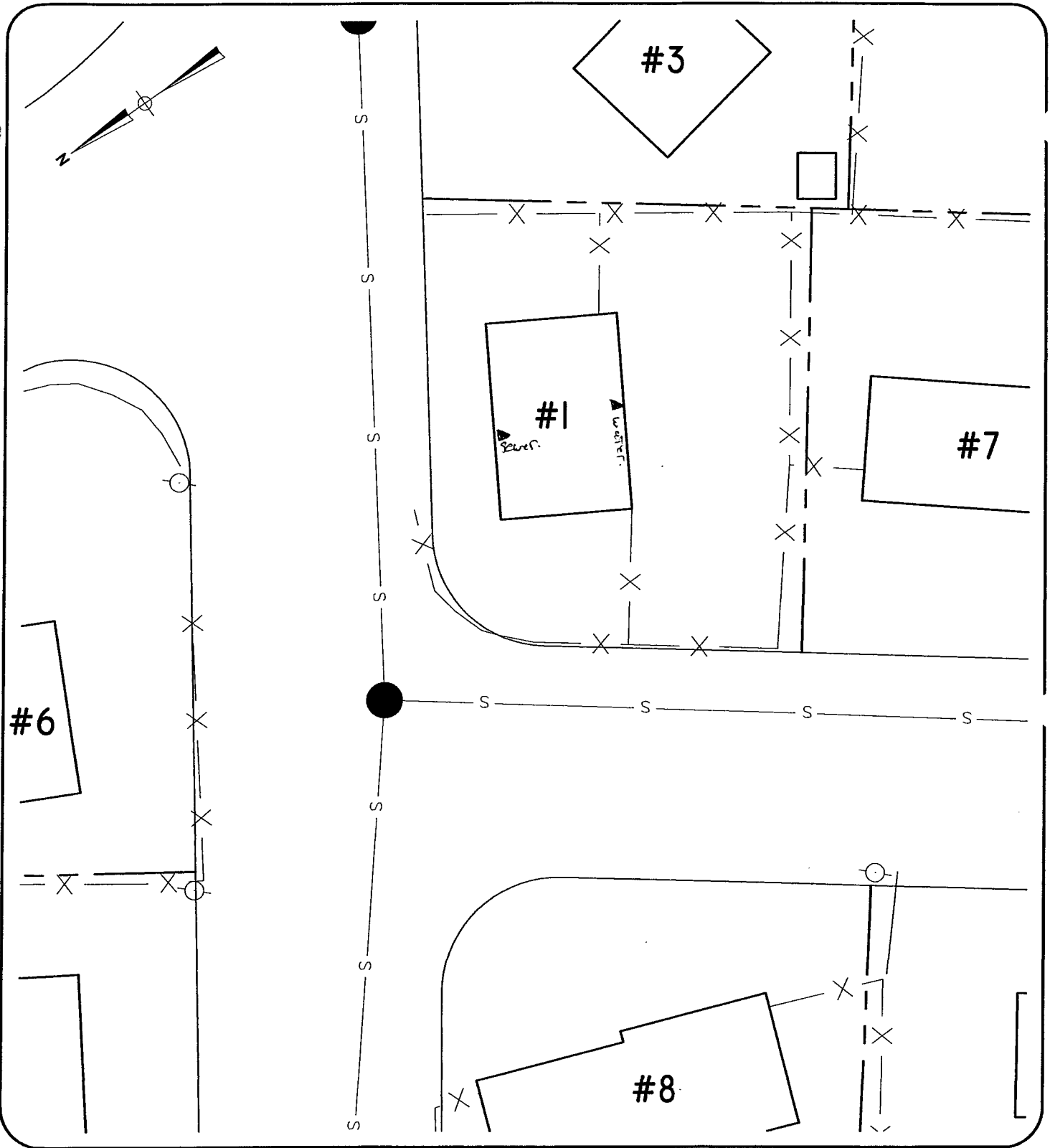
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d -- YARD OR DRIVEWAY DRAIN
- x -- DOWNSPOUT
- r -- ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-7-09
 STREET: _____
LAPERLE AVENUE
 ADDRESS: #1
 BY#: RST

SCALE: 1"=30'

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 6 Leperle AVE Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1609 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: home owner does not know where service is

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0, RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

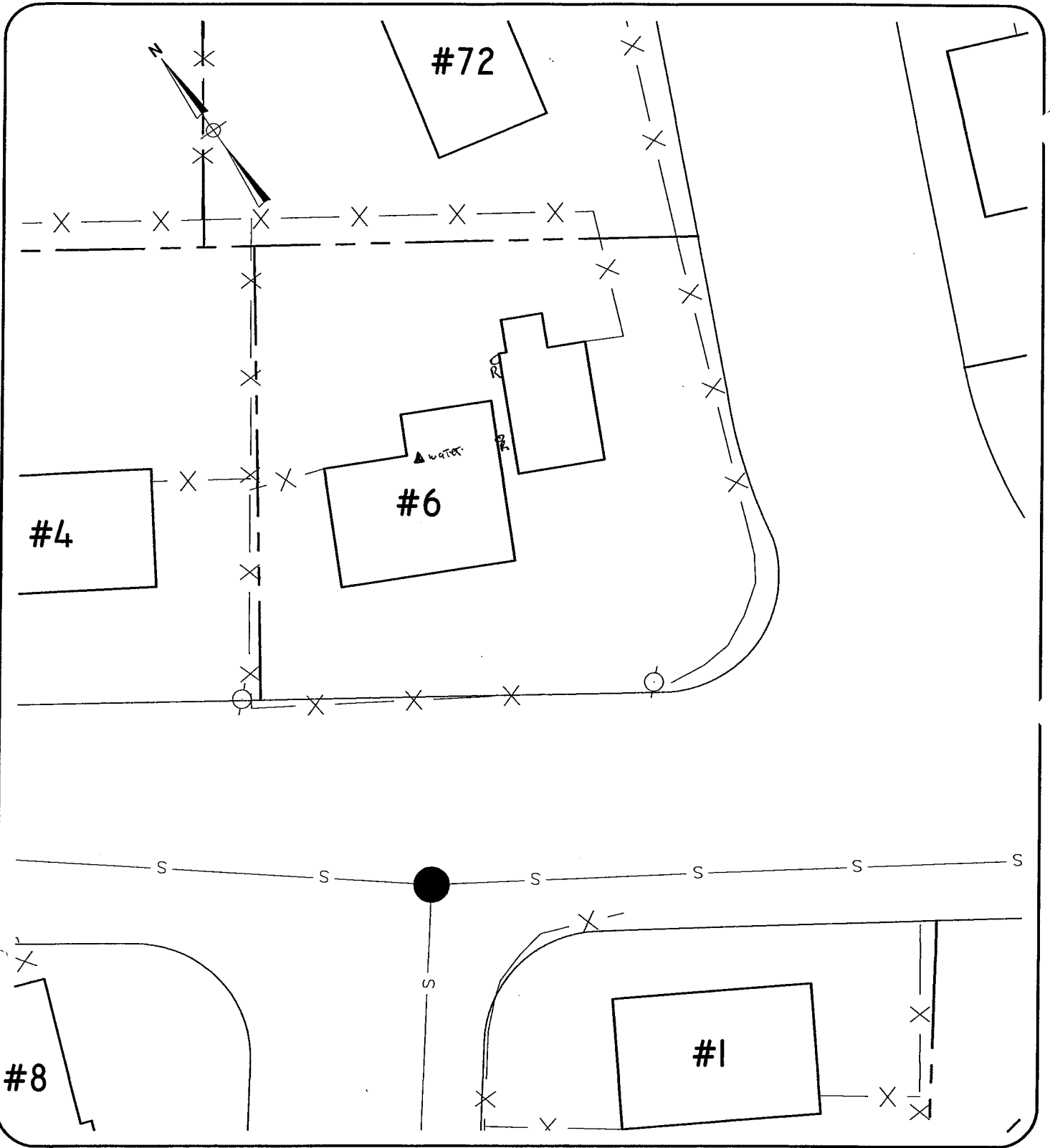
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: ✓

General Comments: _____

NOTE – SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
LAPERLE AVENUE
 ADDRESS: #6
 BY#: RT

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 2 Laperle Ave Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1553 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: home owner THINKS these are the locations (As drawn on the back) no visual.

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

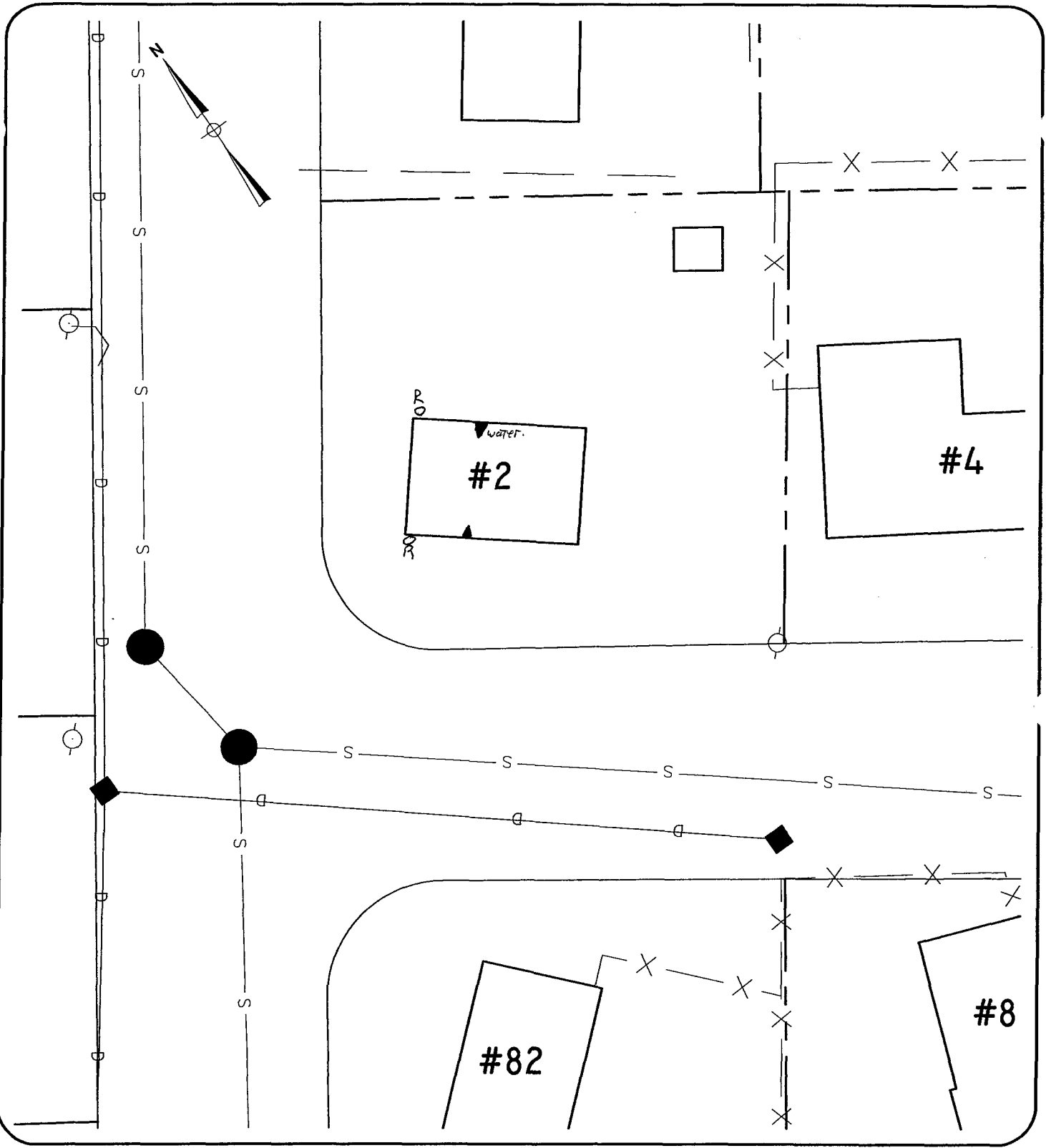
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: Same info as sewer comments

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
LAPERLE AVENUE
 ADDRESS: #2
 BY#: RSI

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 4 Laperle Ave Interviewer RST./Rm
Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant
Initial Visit: Date 10-7-09 Time: 1604 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 13:20 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

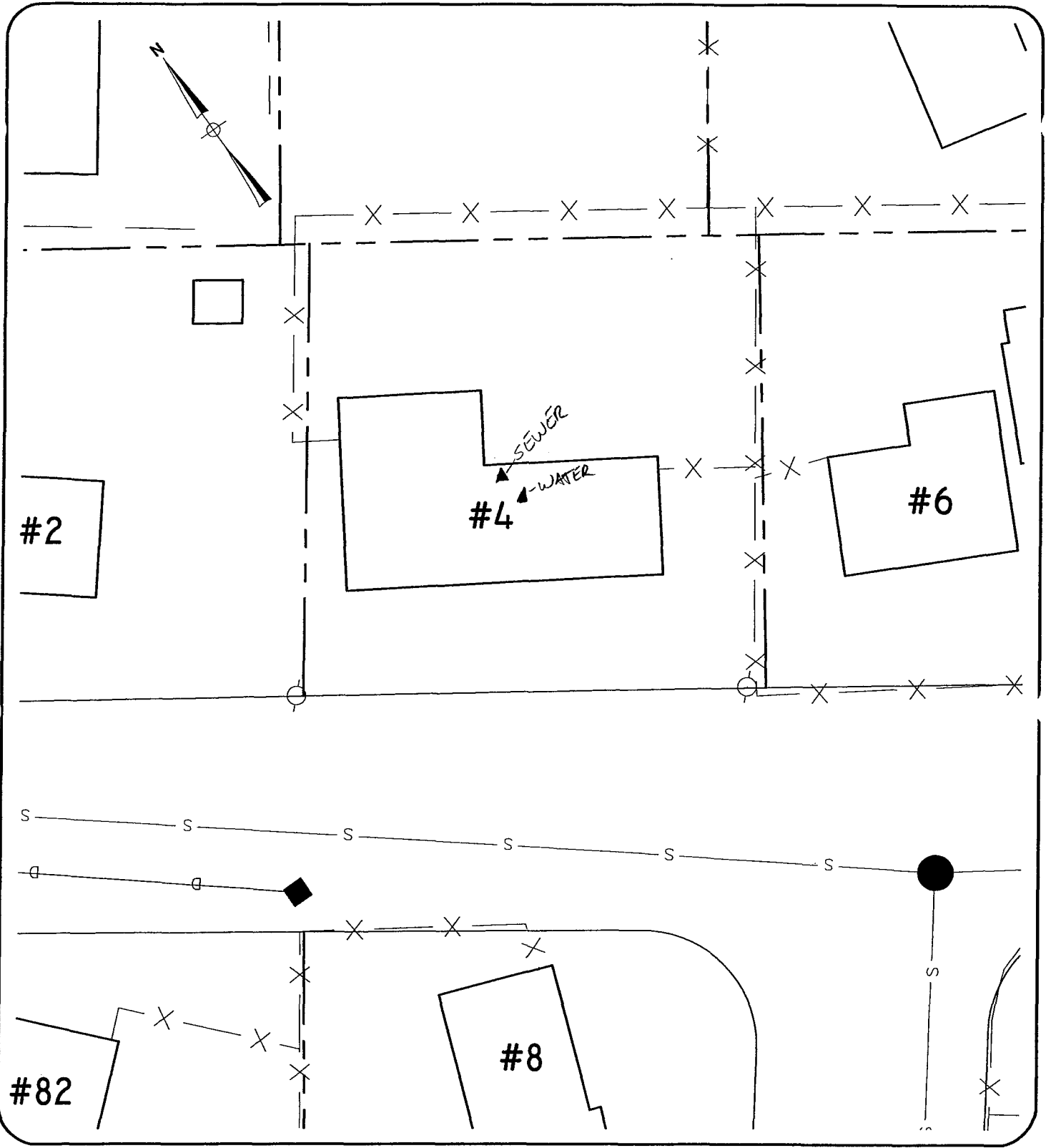
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
LAPERLE AVENUE
 ADDRESS: #4
 BY#: RM

1866 255 0654 /
668-6763 MANUCH

HOUSE SURVEY

W Engineering Services
eter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 3 Laporte Ave Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1625 Unsuccessful, Left Flyer Not Admitted Other _____
 2nd Visit: Date 10-8-09 Time: 13-35 Unsuccessful, Left Flyer Not Admitted Other _____
 3rd Visit: Date 10-12-09 Time: 1119 Unsuccessful _____ Not Admitted Other _____
10-20-09 1230

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 72"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other portable sump only when needed.

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: owner has placed plastic over hole. not accessible below floor level.

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

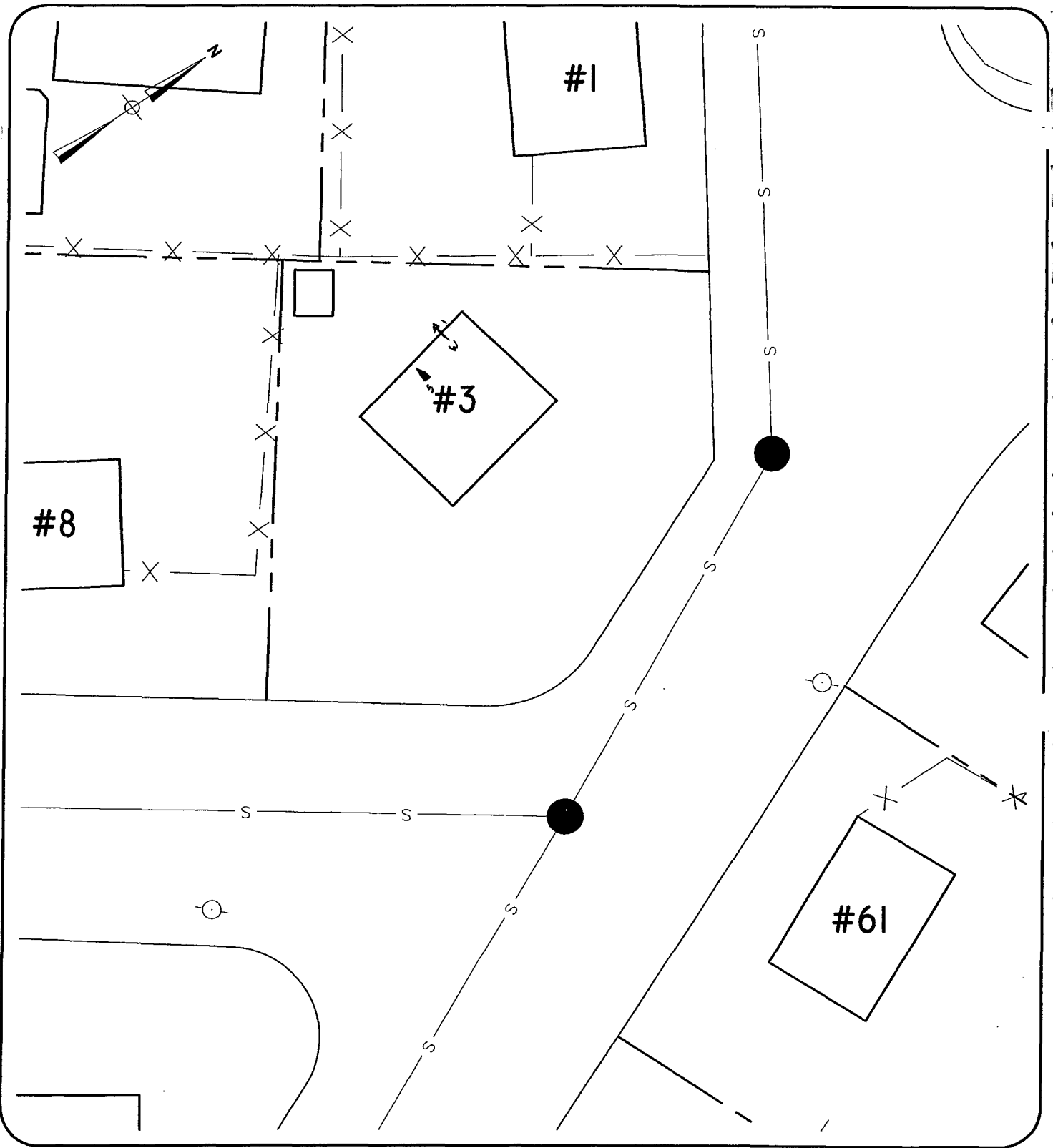
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill 68" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-8-09

STREET: _____

LAPERLE AVENUE

ADDRESS: #3

BY#: RM

RST

HOUSE SURVEY

**J/I Engineering Services
Foster, NH**

**Flow Assessment Services
Bedford, NH**

SEE COMMENTS

Lot # _____ Tax Map # _____ Sub System _____ Street # / SCAMMON LN Interviewer RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date <u>10-8-09</u>	Time: <u>11:35</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2 nd Visit: Date <u>10-13-09</u>	Time: <u>16:55</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3 rd Visit: Date <u>10-19-09</u>	Time: <u>8:15</u>	Unsuccessful <input checked="" type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

Water Service Information:

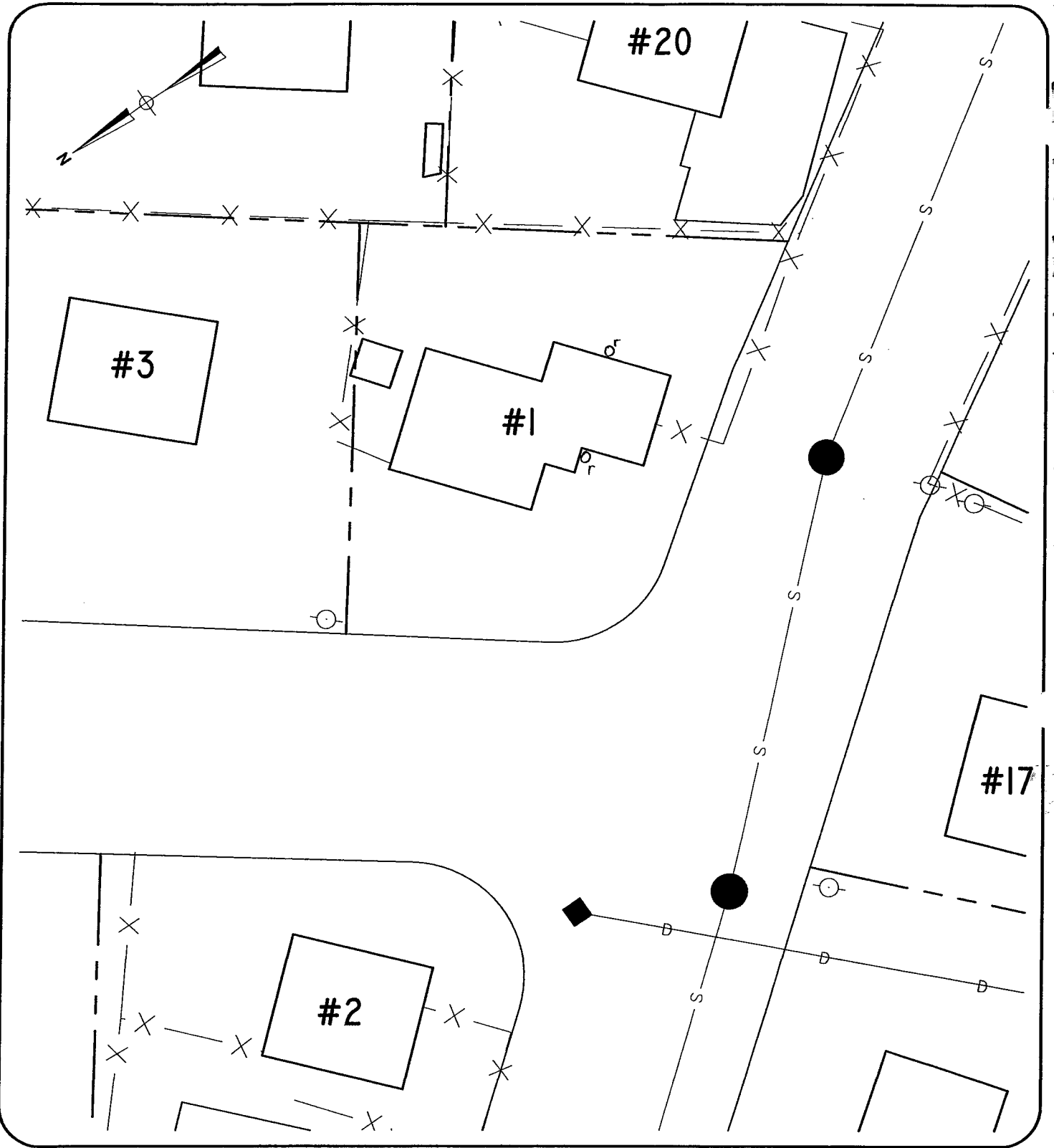
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: INSPECTION CAN ONLY BE COMPLETED DURING THE MORNING HOURS / 8-9 AM

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-8-09
 STREET: _____
SCAMMON LANE
 ADDRESS: #1
 BY#: RM

SCALE: 1"=30'

HOUSE SURVEY

**I/I Engineering Services
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 2 Scammon Ln Interviewer Rjt/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1120 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: power outage sump pump failed. 4" of water in basement.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other unknown.

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: yes sump pump but unknown where it discharges to. pipe goes in direction of sanitary

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

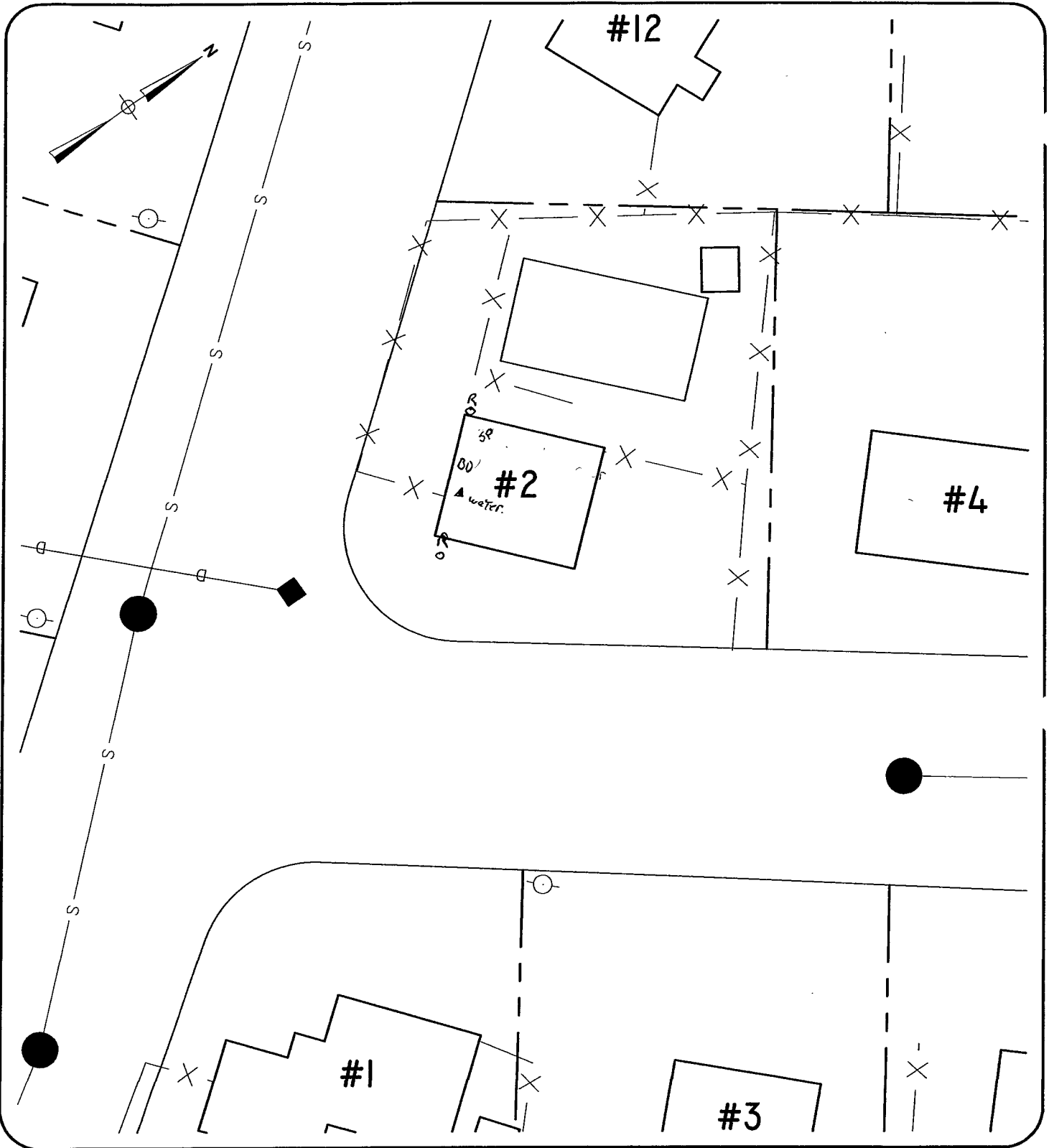
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level 80'

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09

STREET: _____
SCAMMON LANE

ADDRESS: #2

BY#: RSI/ppc

SCALE: 1"=30'

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 3 SCAMMON LN Interviewer RM/RSI

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 11:38 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-12-09 Time: 11:05 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-19-09 Time: 17:00 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

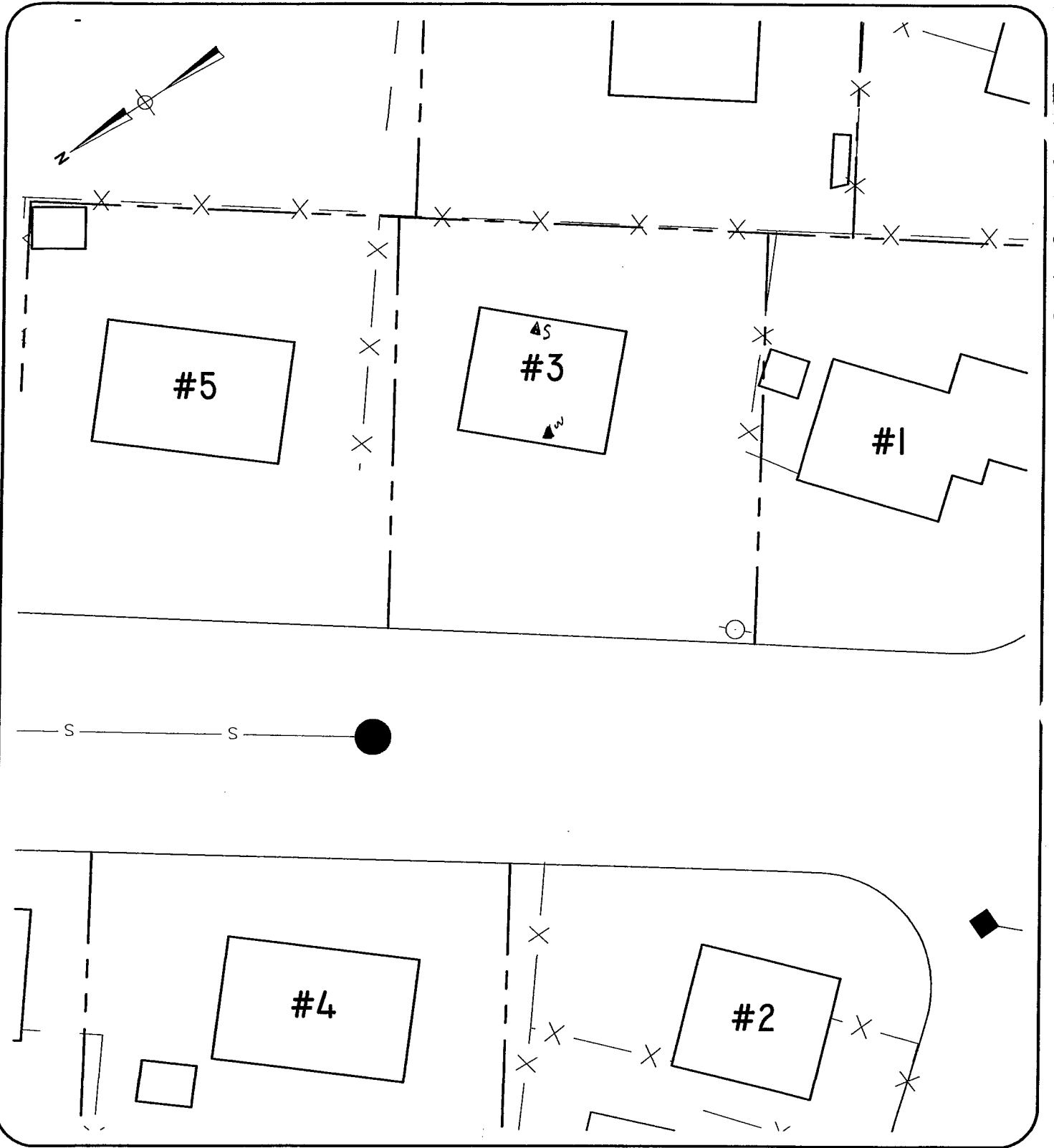
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
 I&I Engineering Services
 Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-19-09
 STREET: _____
SCAMMON LANE
 ADDRESS: #3
 BY#: RM

HOUSE SURVEY

VI Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 4-SCAMMON LN Interviewer RM / RSI

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 11:40 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-12-09 Time: 11:10 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

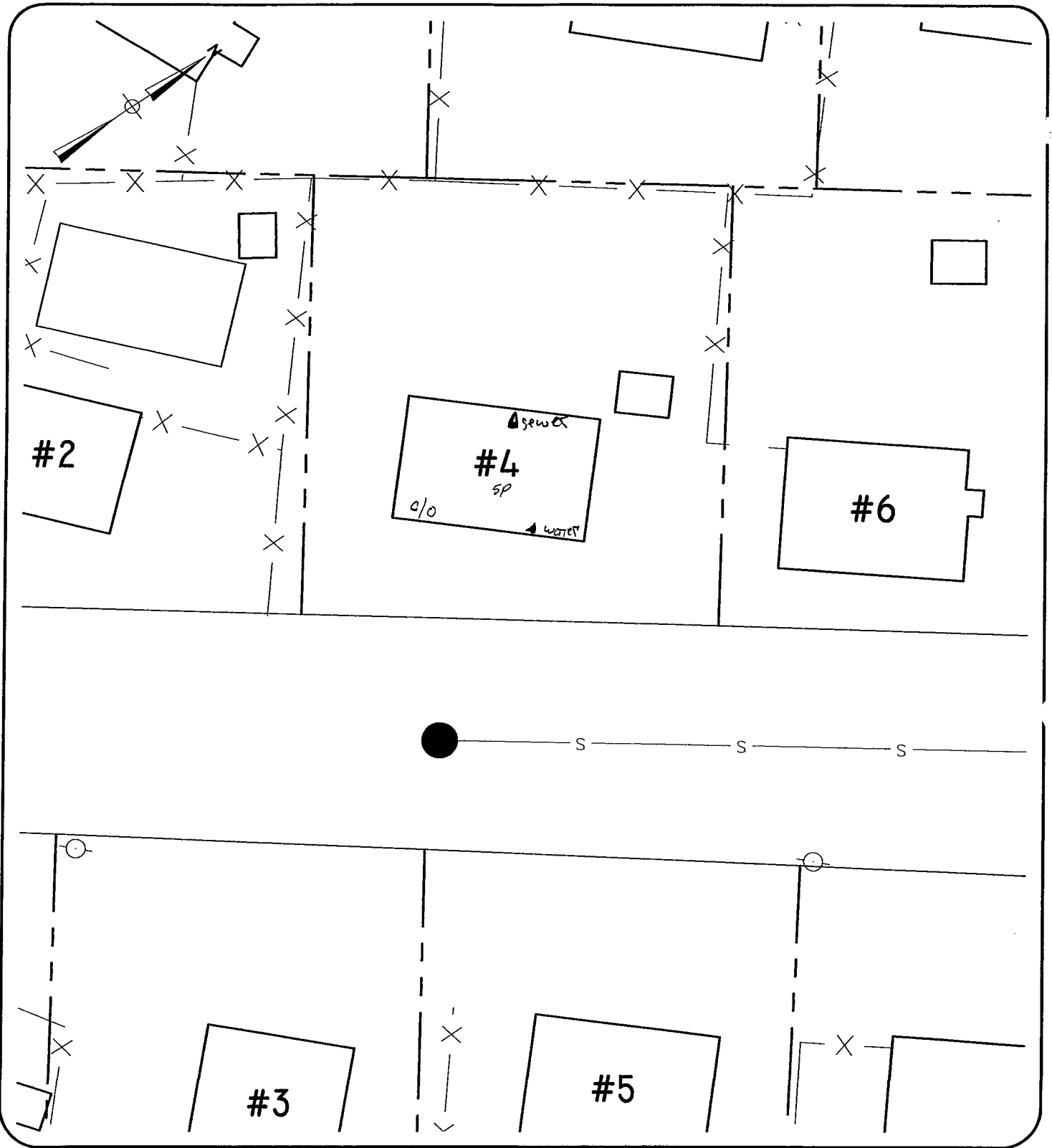
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
SCAMMON LANE
 ADDRESS: #4
 BY#: RM

HOUSE SURVEY

VI Engineering Services
Manchester, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # S. SCAMMON LN Interviewer RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-04 Time: 11:47 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

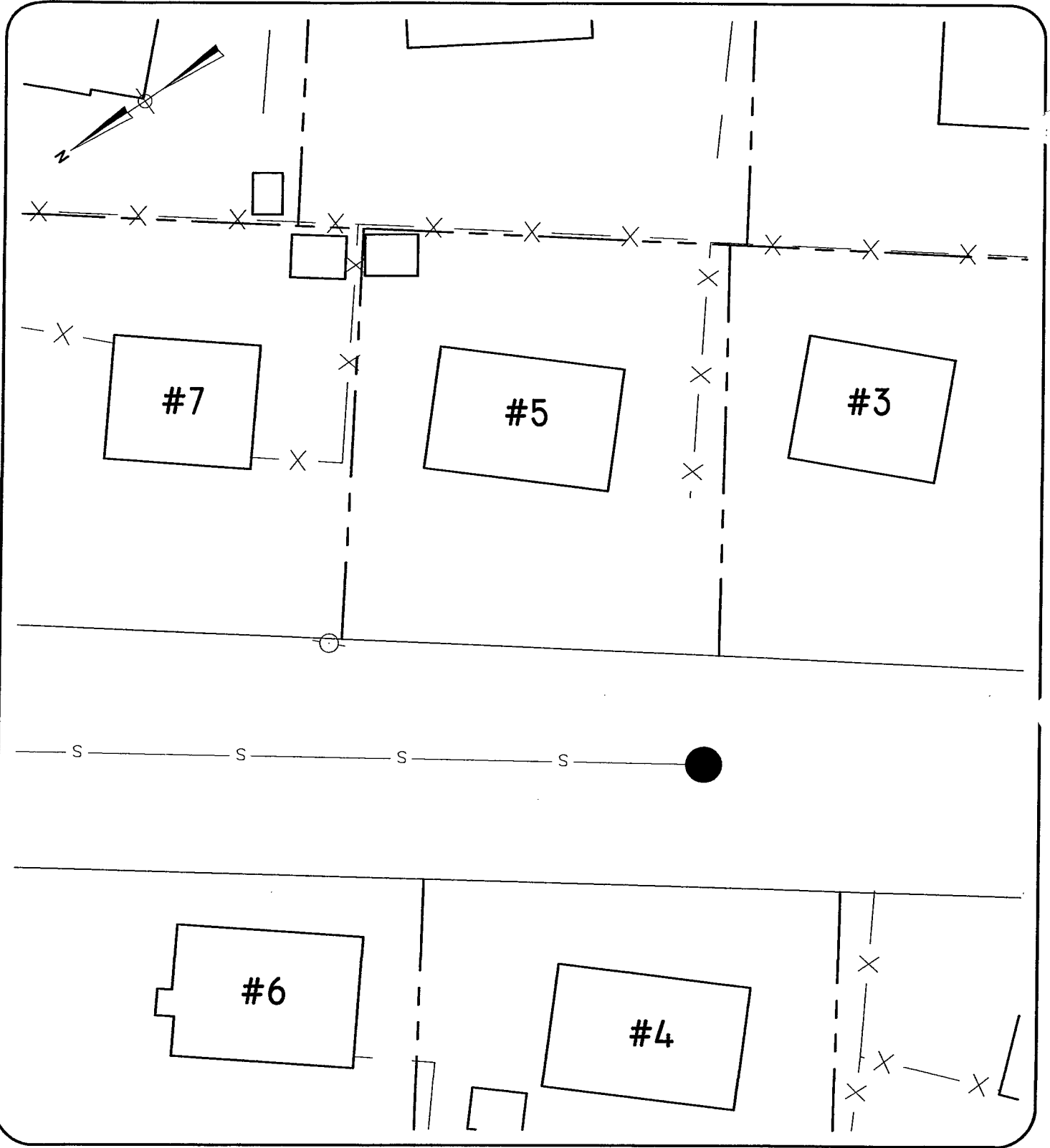
Comments: _____

7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: ReFused Access By owner.



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- DRAIN TYPE**
- d - YARD OR DRIVEWAY DRAIN
 - x - DOWNSPOUT
 - r - ROOF LEADER

- OUTLET**
- ONTO SURFACE
 - INTO GROUND
 - ⊙ ENTERS FOUNDATION

DATE: 10-8-09
 STREET: _____
SCAMMON LANE
 ADDRESS: #5
 BY#: RM

HOUSE SURVEY

W Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 6 SCAMMON LN. Interviewer RM/RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 11:50 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-12-09 Time: 11:16 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 11-13-09 Time: 17:05 Unsuccessful Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

Water Service Information:

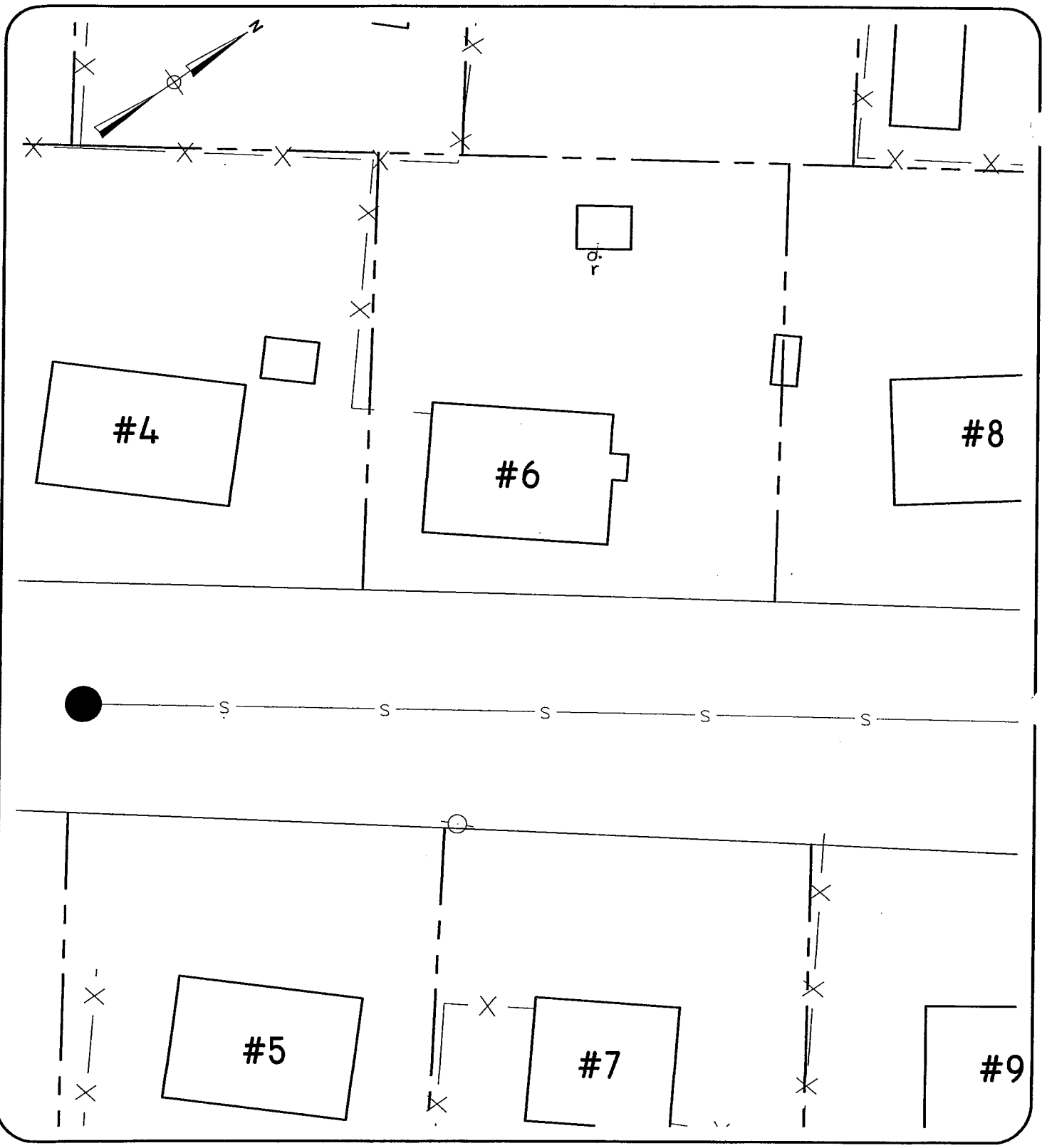
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

OTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
SCAMMON LANE
 ADDRESS: #6
 BY#: RM

HOUSE SURVEY

**I/I Engineering Services
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 7 SCAMMON LN Interviewer RM/KST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 11:51 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-12-09 Time: 11:02 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-13-09 Time: 17:10 Unsuccessful Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

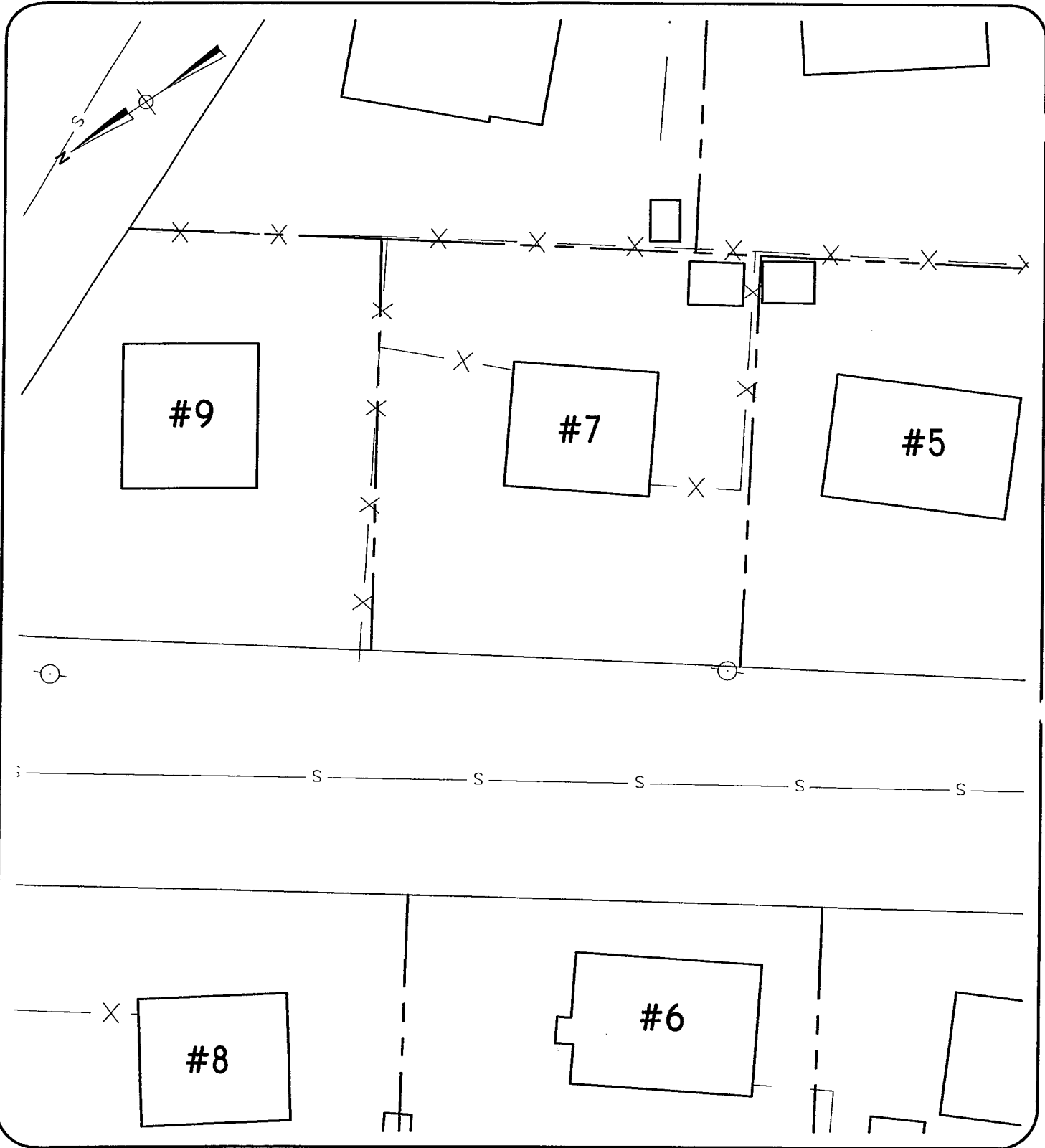
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-8-09
 STREET: _____
SCAMMON LANE
 ADDRESS: #7
 BY#: RM

SCALE: 1"=30'

HOUSE SURVEY

Engineering Services
Peter, NH

Flow Assessment Services
Bedford, NH

HOME OWNER SAYS SHE WILL CALL FOR APPOINTMENT

Plot # _____ Tax Map # _____ Sub System _____ Street # 8 SCAMMON LN Interviewer RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 11:58 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation _____ RL Into Ground _____ RL Onto Surface _____

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

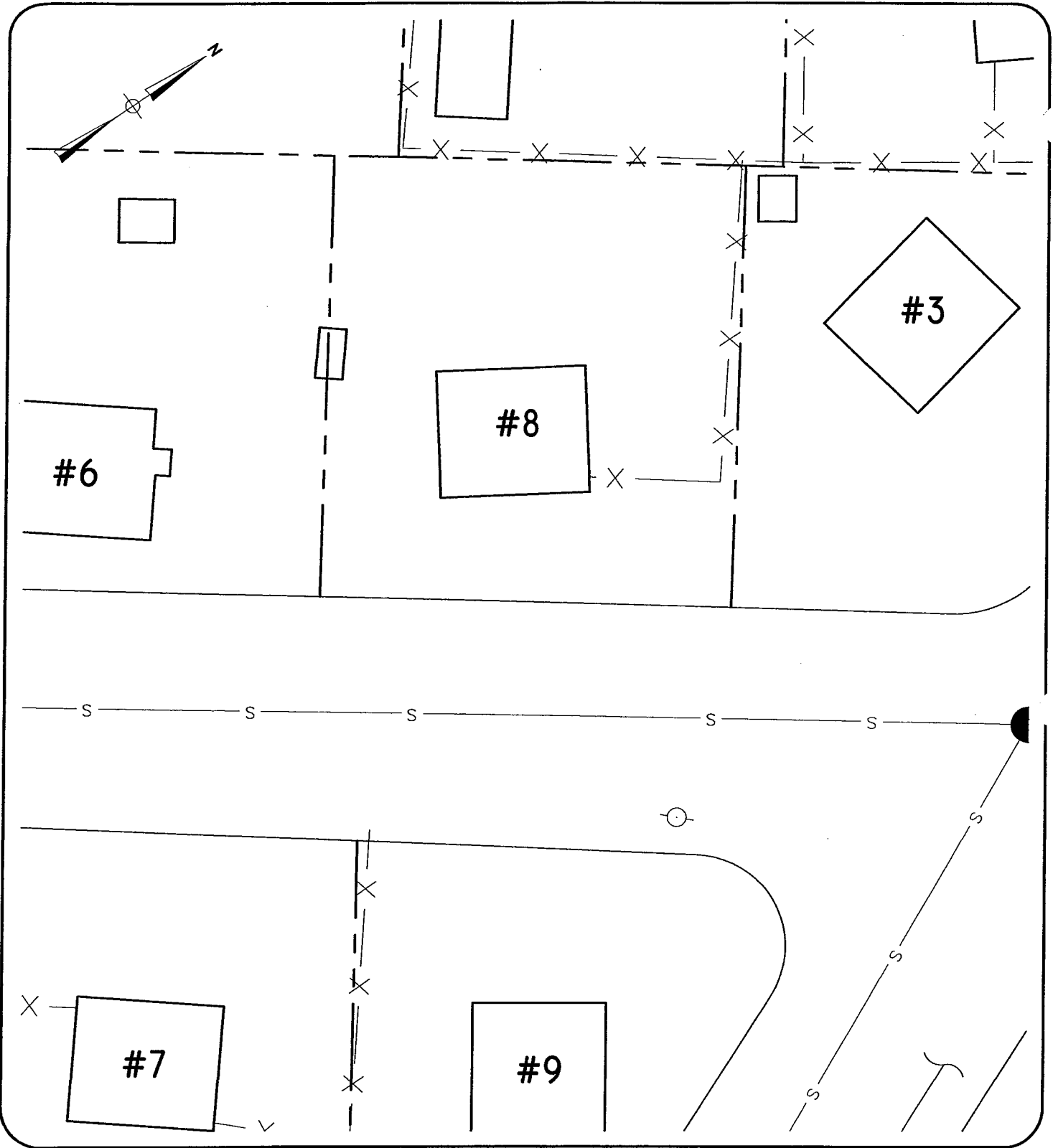
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: Home owner states her husband just got out of the hospital and does NOT know if or when she will be able to schedule an apt.

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE	OUTLET
d - YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x - DOWNSPOUT	● INTO GROUND
r - ROOF LEADER	⊙ ENTERS FOUNDATION

DATE: 10-8-09
 STREET: _____
SCAMMON LANE
 ADDRESS: #8
 BY#: RM

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 9 SCAMMON LN Interviewer RM/RST/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-8-09 Time: 11:59 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-12-09 Time: 11:00 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-13-09 Time: 17:12 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82.5"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test
STAIRWELL DRAIN

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

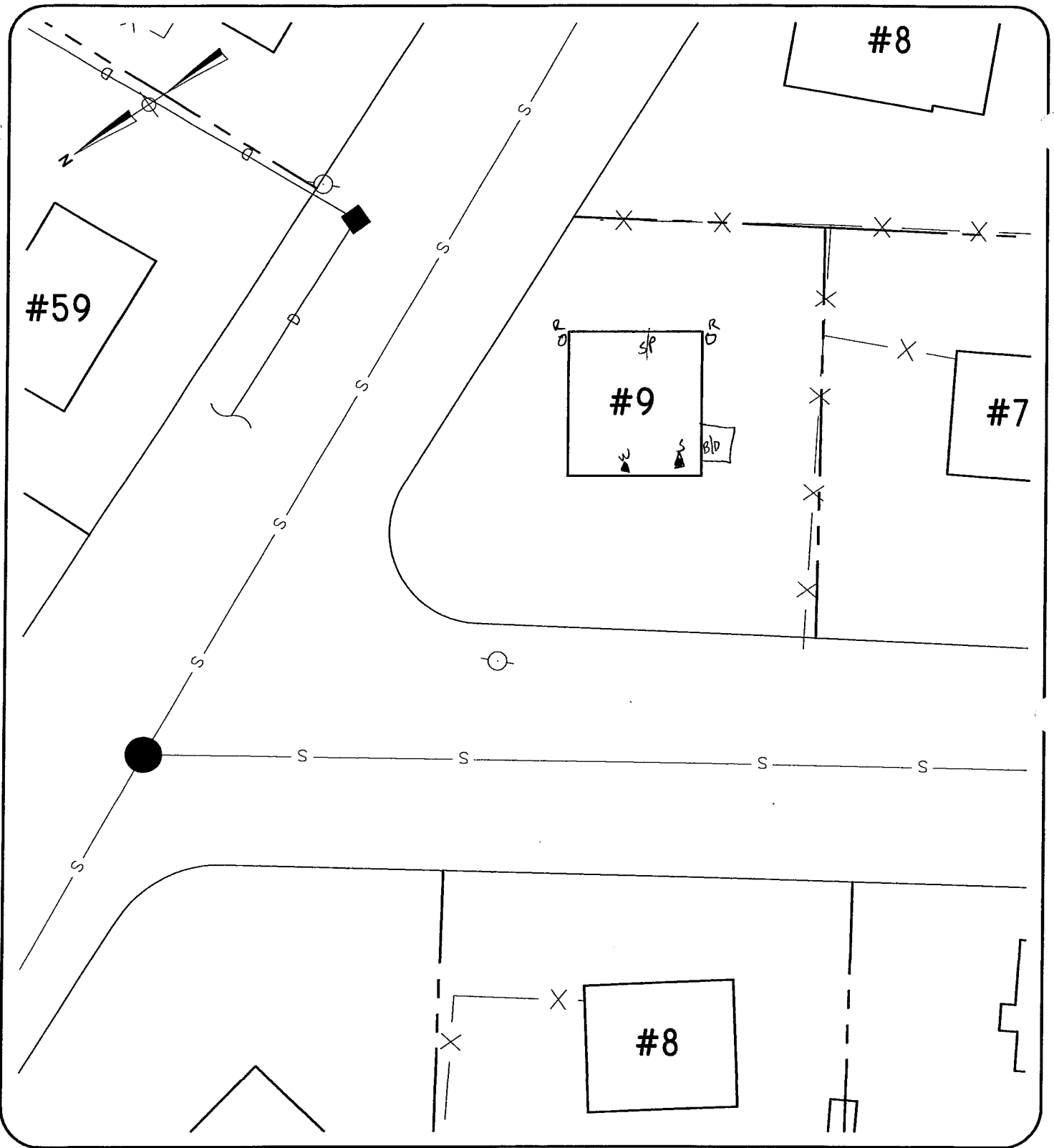
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: SCAMMON LANE
 ADDRESS: #9
 BY#: RM

SCALE: 1"=30'

HOUSE SURVEY

**Engineering Services
ter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 3 Silvio Dr. Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1700 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: 2 Sump pumps, 1 goes to surface. Back up goes to sanitary.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 5

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

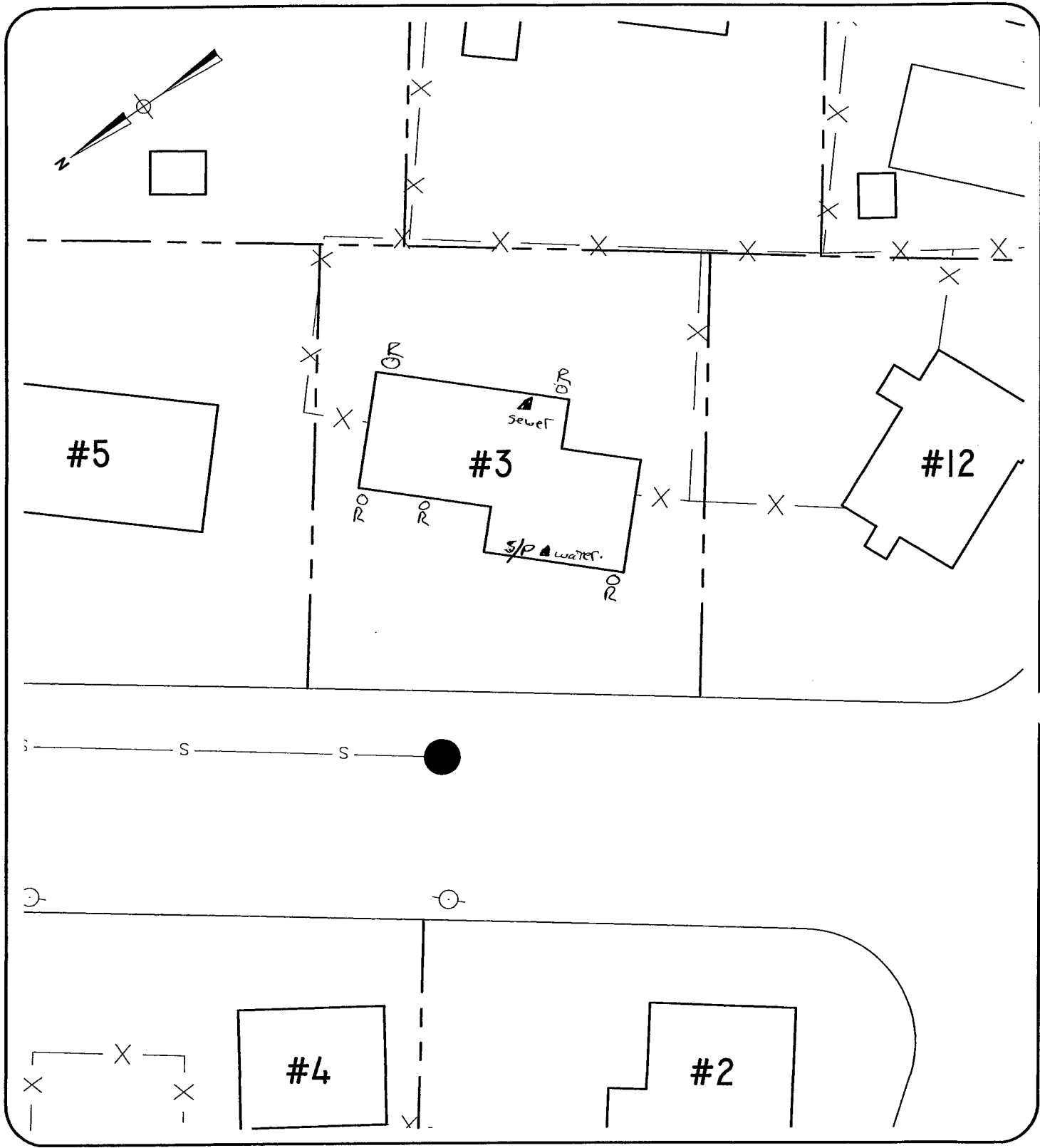
Comments: _____

7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
SIVIO DRIVE
 ADDRESS: **#3**
 BY#: RSI

HOUSE SURVEY

**Engineering Services
ter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 2 Silvio Dr. Interviewer RST/RM/RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1709 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 13:07 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1129 Unsuccessful Not Admitted Other _____
10-19-09

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

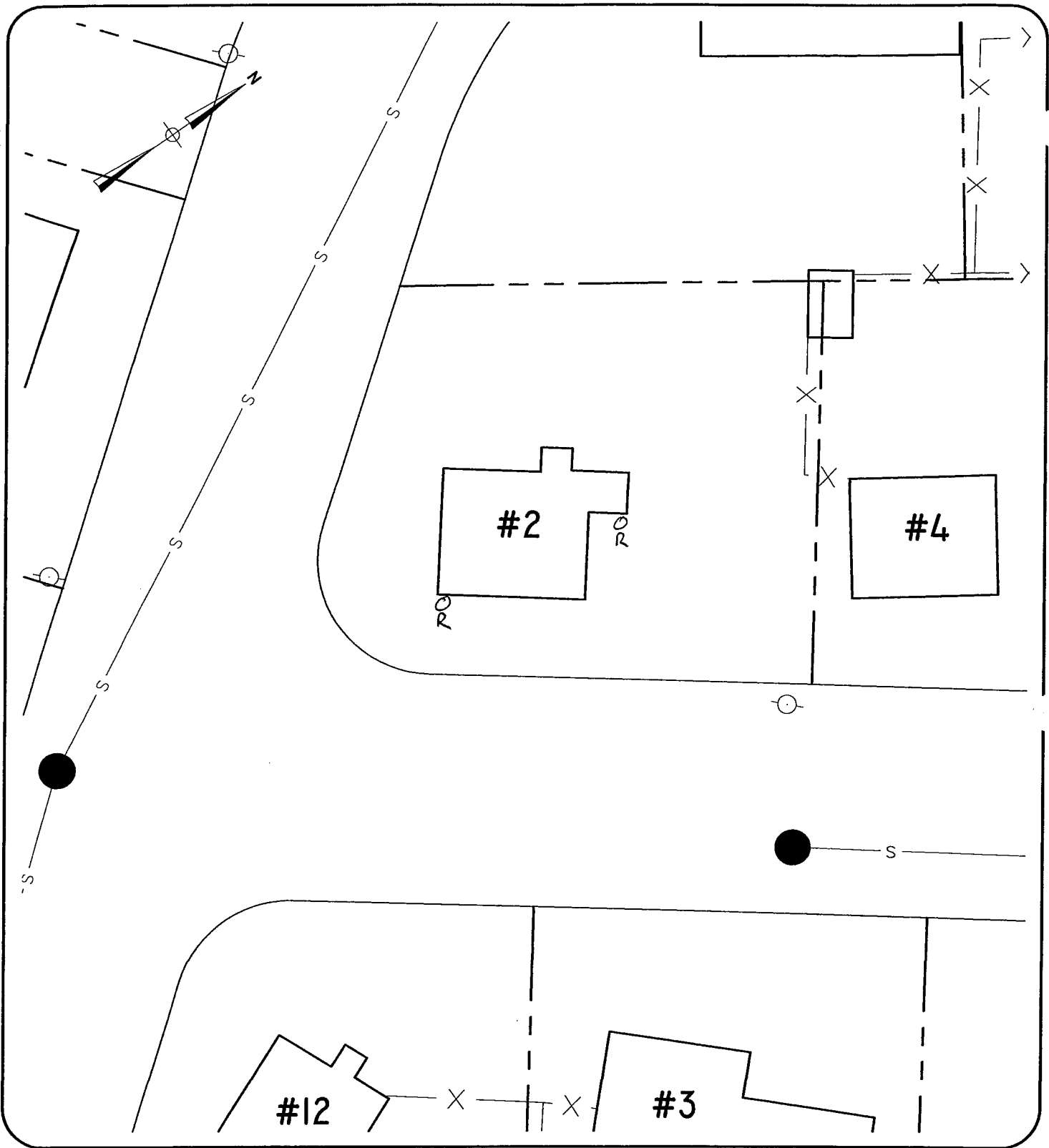
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: SAYS BASEMENT HAS TOO MUCH CLUTTER. Denied access by owner

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-19-09
 STREET: _____
SIVIO DRIVE
 ADDRESS: #2
 BY#: Rm

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 4 Silvio Dr Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1650 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: Sump pump pipe goes to outside surface level then into ground in back yard.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

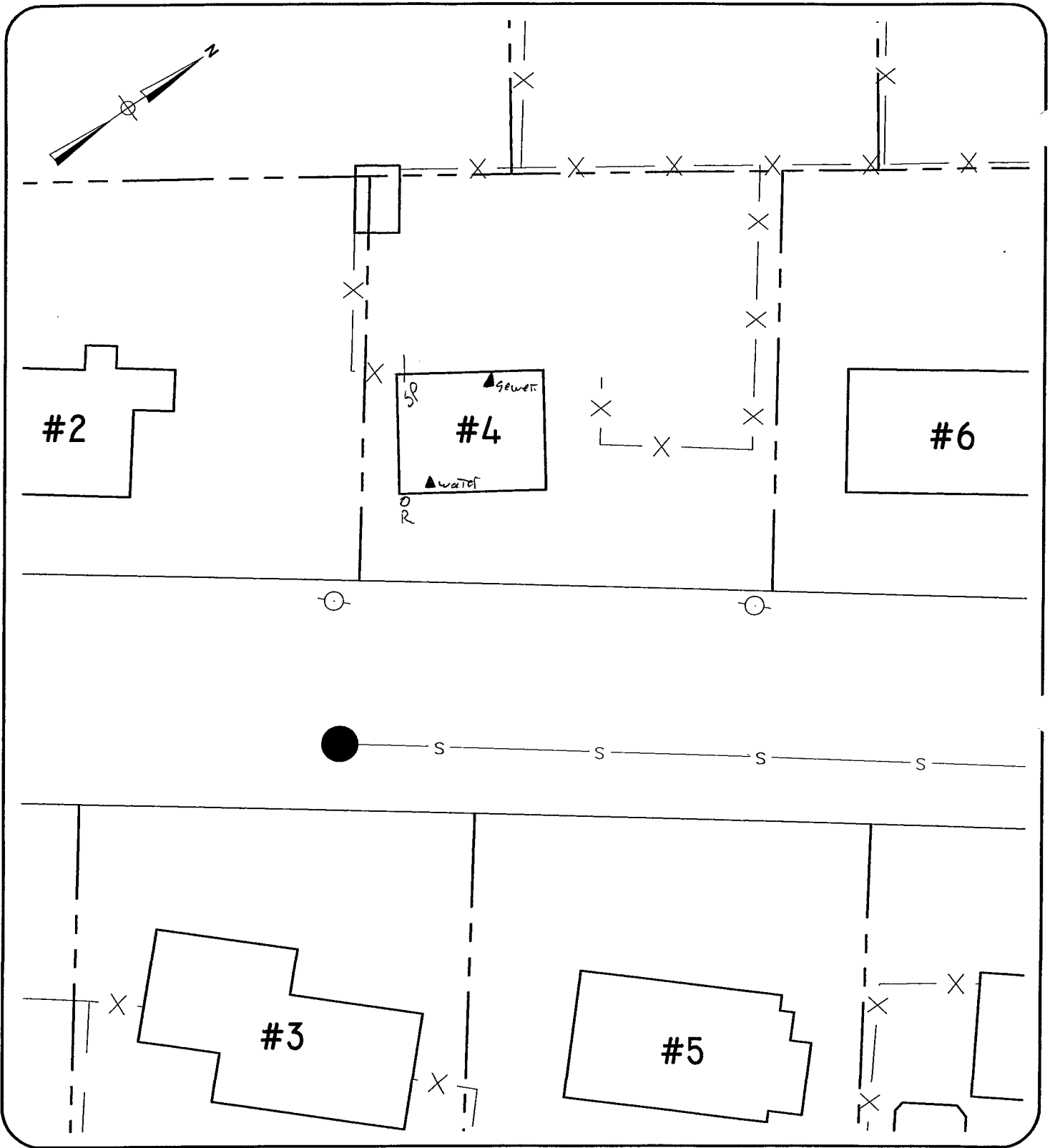
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
SIVIO DRIVE
 ADDRESS: #4
 BY#: RST

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 5 Silvio Dr. Interviewer RST / RM / RST
Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant
Initial Visit: Date 10-7-09 Time: 1648 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 14-20 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1121 Unsuccessful Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____
Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____
Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level
Pipe Material: Cast Iron PVC Clay Other _____
Comments: _____

4. Is there a Sump Pump? Yes No
If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate
Unknown Other _____
Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)
Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test
Comments: _____

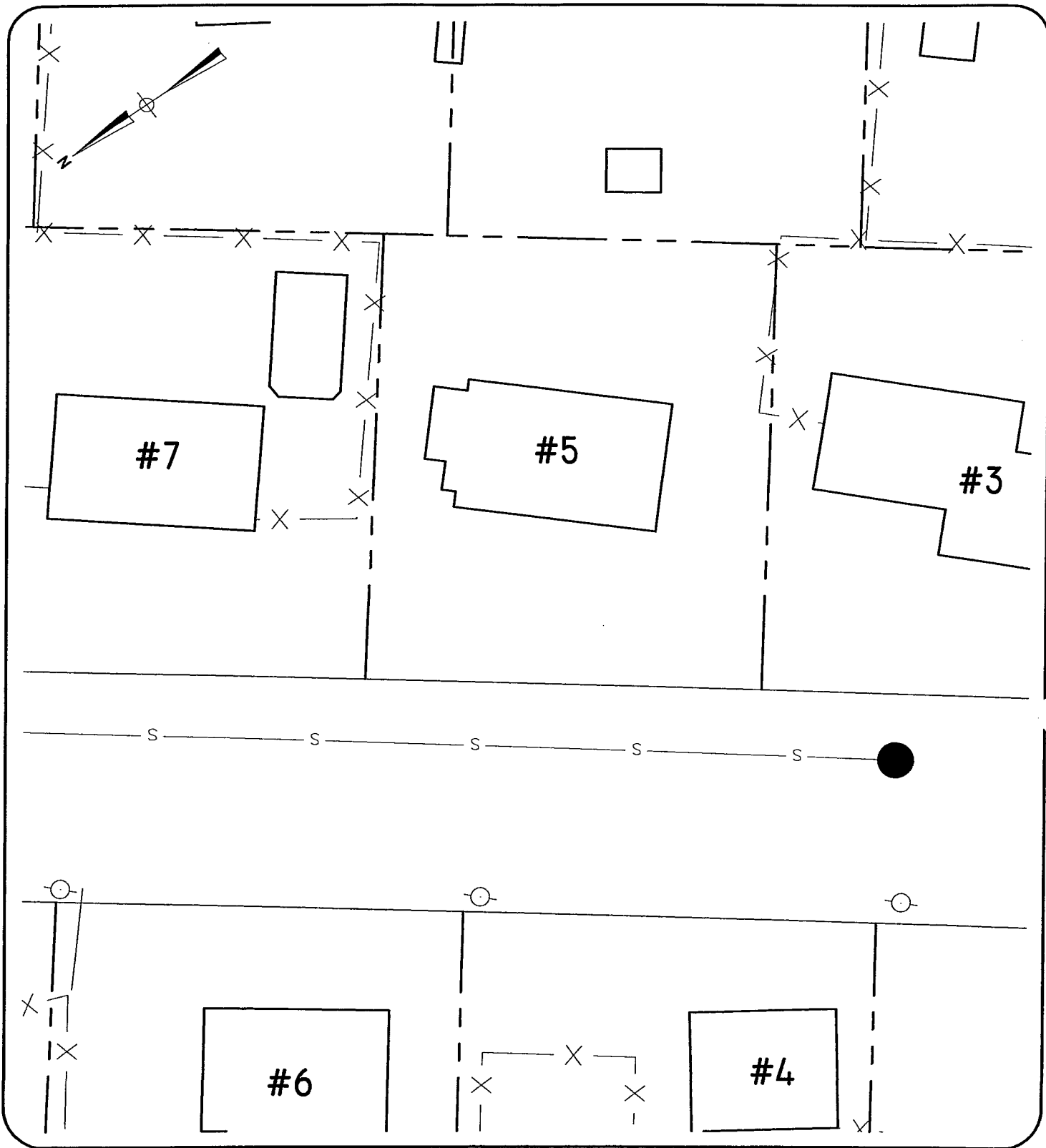
5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)
Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0
Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain
Comments: _____

7. Water Service Information:
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level
Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- o ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: _____
 STREET: _____
 ADDRESS: #5
 BY#: _____

HOUSE SURVEY

I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 6 Silvio Dr Interviewer RST/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1636 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 14:11 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: FINISHED

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

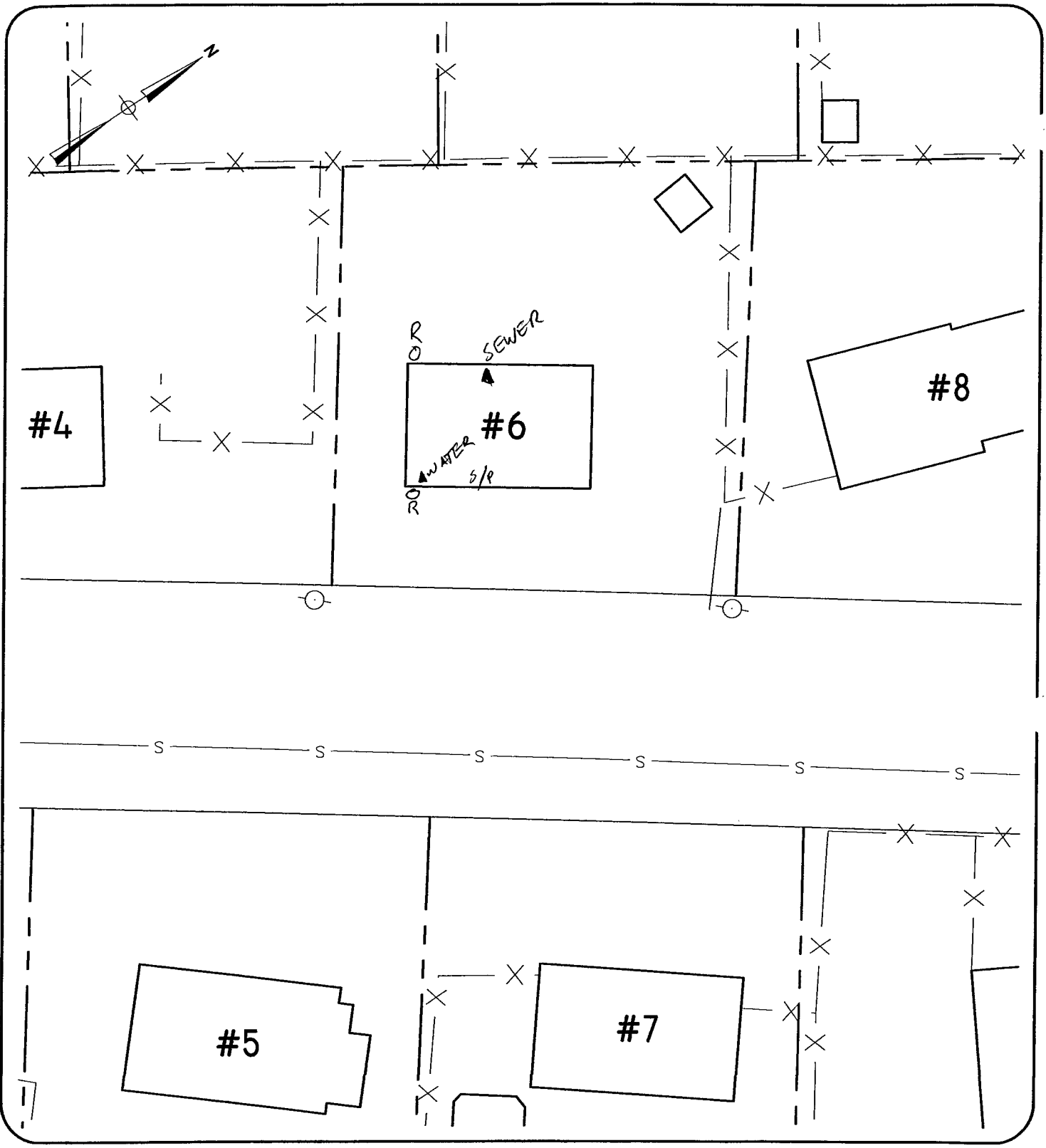
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | | OUTLET | |
|------------|--------------------------|--------|-------------------|
| d | - YARD OR DRIVEWAY DRAIN | ○ | ONTO SURFACE |
| x | - DOWNSPOUT | ● | INTO GROUND |
| r | - ROOF LEADER | ⊙ | ENTERS FOUNDATION |

DATE: 10-08-09
 STREET: _____
SIVIO DRIVE
 ADDRESS: #6
 BY#: Rm

HOUSE SURVEY

VI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 7 Silvio Dr Interviewer RS

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1638 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump takes care of it

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: partially finished basement

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 87"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 4

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

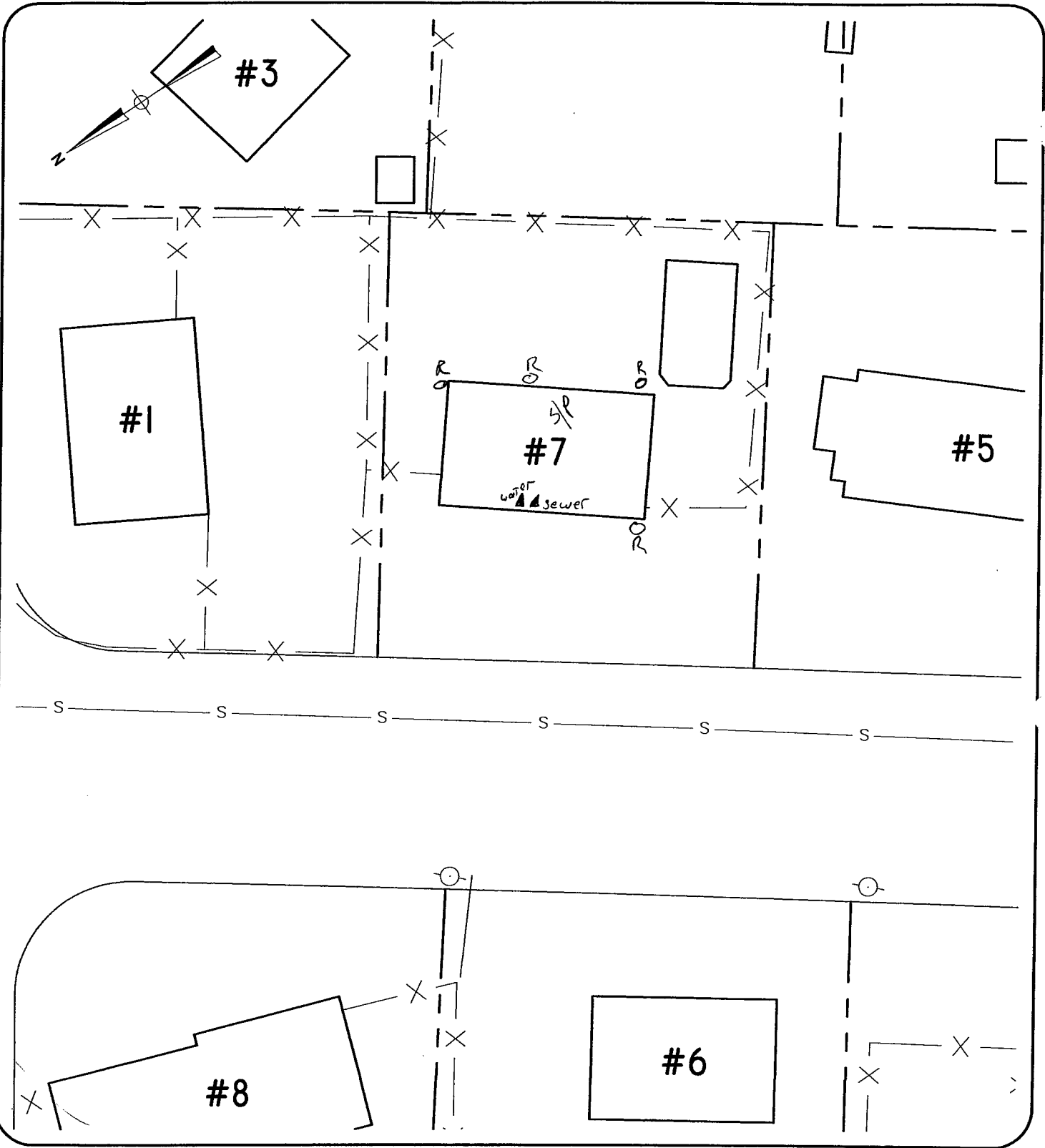
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE -- SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
SIVIO DRIVE
 ADDRESS: #7
 BY#: LSI

HOUSE SURVEY

W Engineering Services
Water, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 8 Silvio Dr. Interviewer PR RT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 10:56 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: Sink Located Directly above Sump Pump

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: 2" open Pipe @ sill level Directly above Sump Pump

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

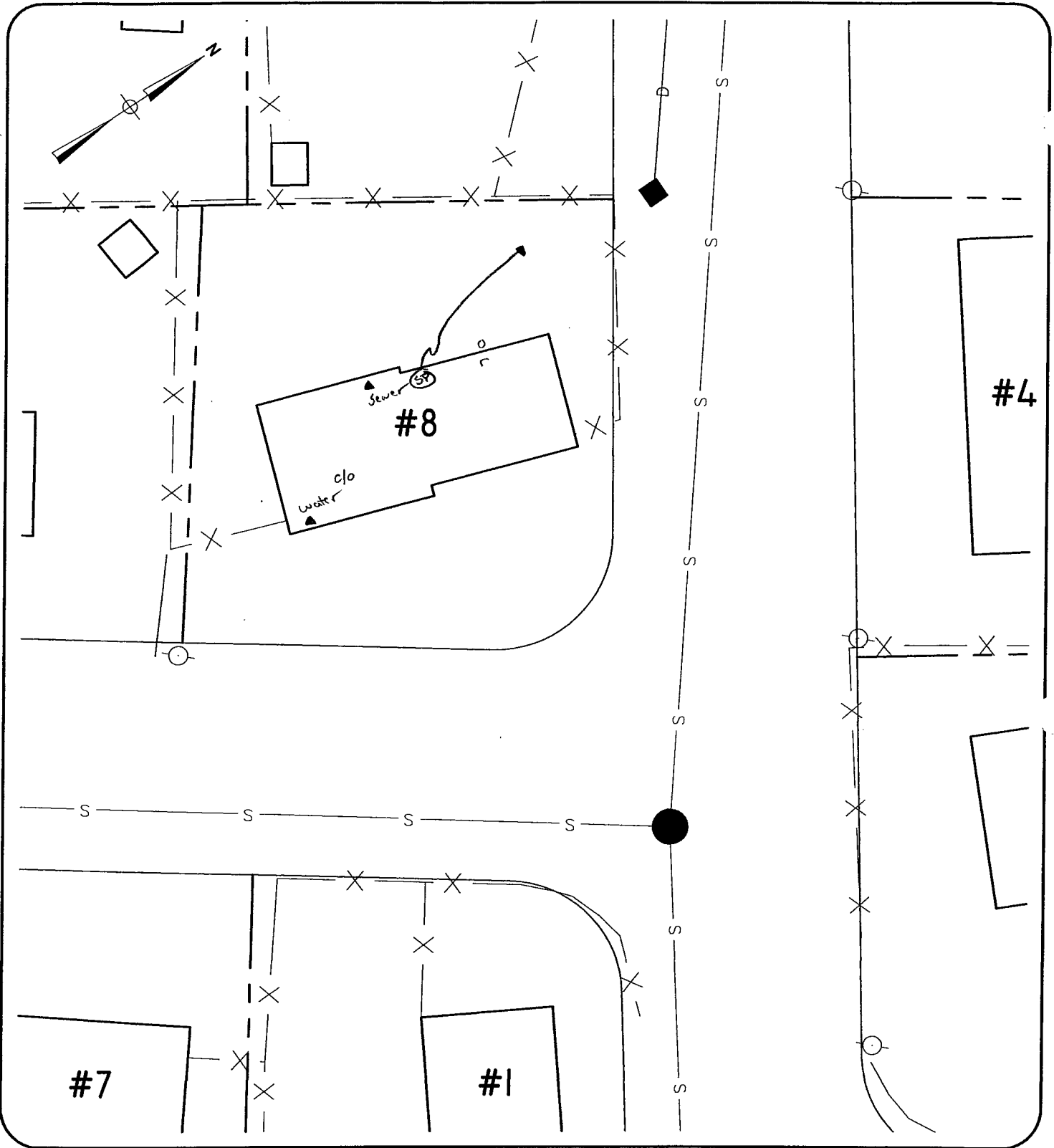
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: Home owner wants to Pipe S.P into catch Basin in street. Currently two Sump Pumps on standby in stairwell Portable. Not Connected @ this time.

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- O ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09
STREET: _____
SIVIO DRIVE
ADDRESS: #8
BY#: PPC BT

SCALE: 1"=30'

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 1 TILTON AVE Interviewer RST/RM/RSE/RN

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1725 Unsuccessful, Left Flyer Not Admitted Other _____
 2nd Visit: Date 10-8-09 Time: 14:59 Unsuccessful, Left Flyer Not Admitted Other _____
 3rd Visit: Date 10-12-09 Time: 1054 Unsuccessful _____ Not Admitted Other _____
10-21-09 12:52

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 3

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

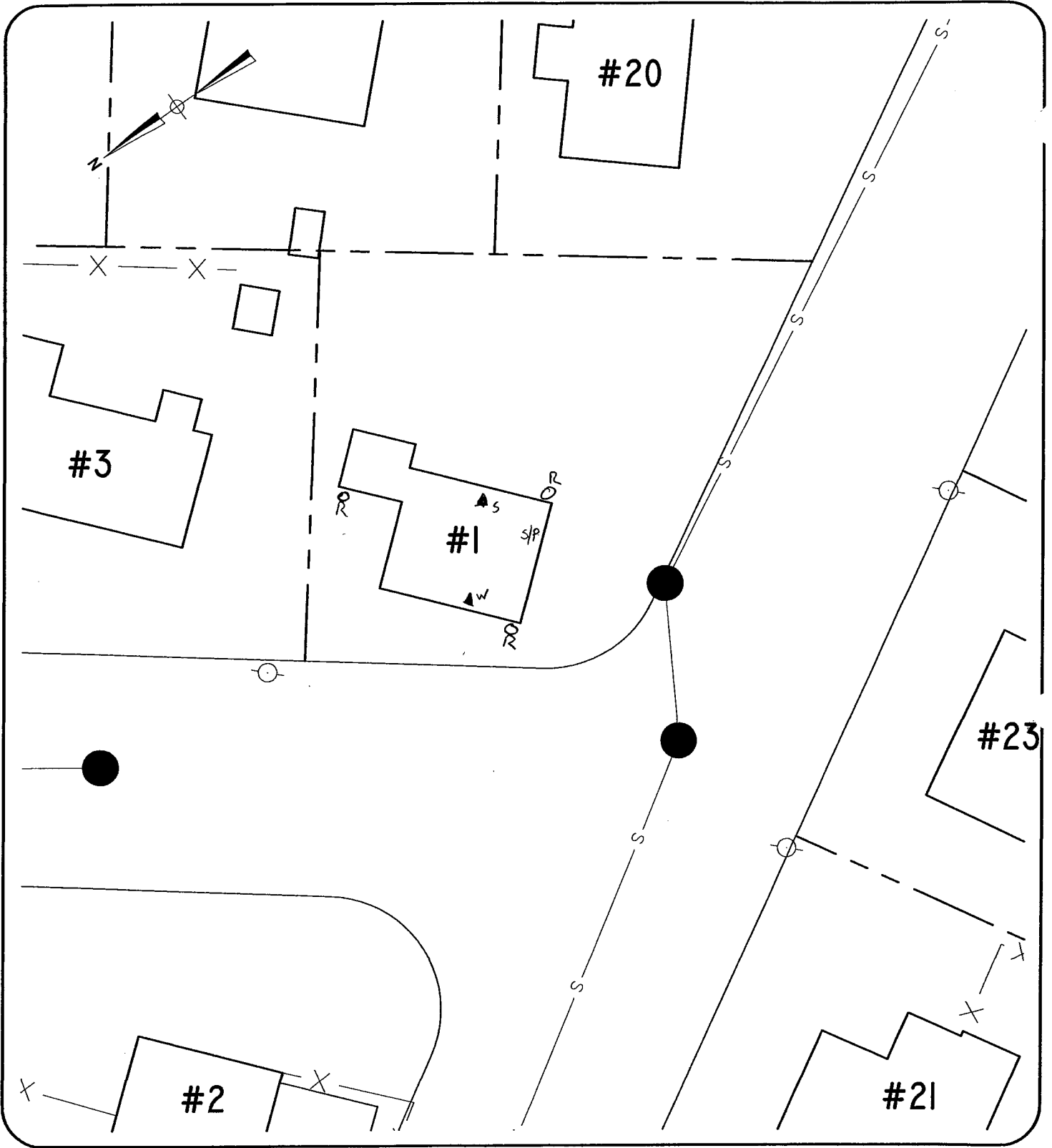
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
TILTON AVENUE
 ADDRESS: #1
 BY#: RST

SCALE: 1"=30'

HOUSE SURVEY

I/I Engineering Services
Manchester, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 2 TILTON AVE Interviewer RSI

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1727 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump takes care of it.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

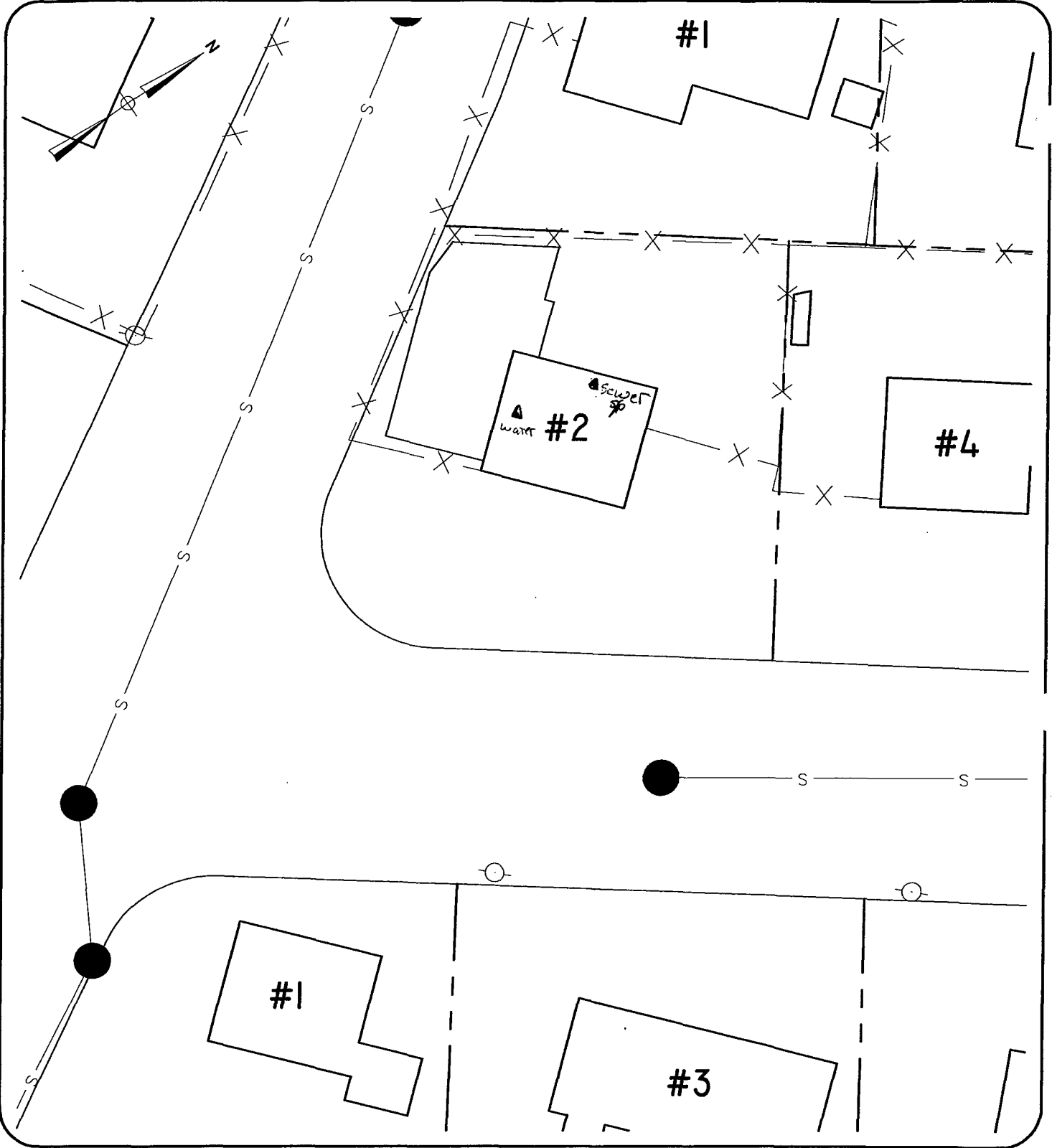
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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- SCHEMATIC INFORMATION CHECKLIST**
- WATER SERVICE
 - SEWER SERVICE
 - CURB STOP
 - WATER METER
 - SUMP PUMP
 - DRAIN LINE
 - CLEAN OUTS
 - UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
TILTON AVENUE
 ADDRESS: #2
 BY#: RSJ

HOUSE SURVEY

**/I Engineering Services
Manchester, NH**

**Flow Assessment Services
Bedford, NH**

Plot # _____ Tax Map # _____ Sub System _____ Street # 3 TILTON AVE Interviewer RSF

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1738 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: use portable sump.

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: portable sump TO surface out Back Bulkhead.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: capped clean out.

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 4

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

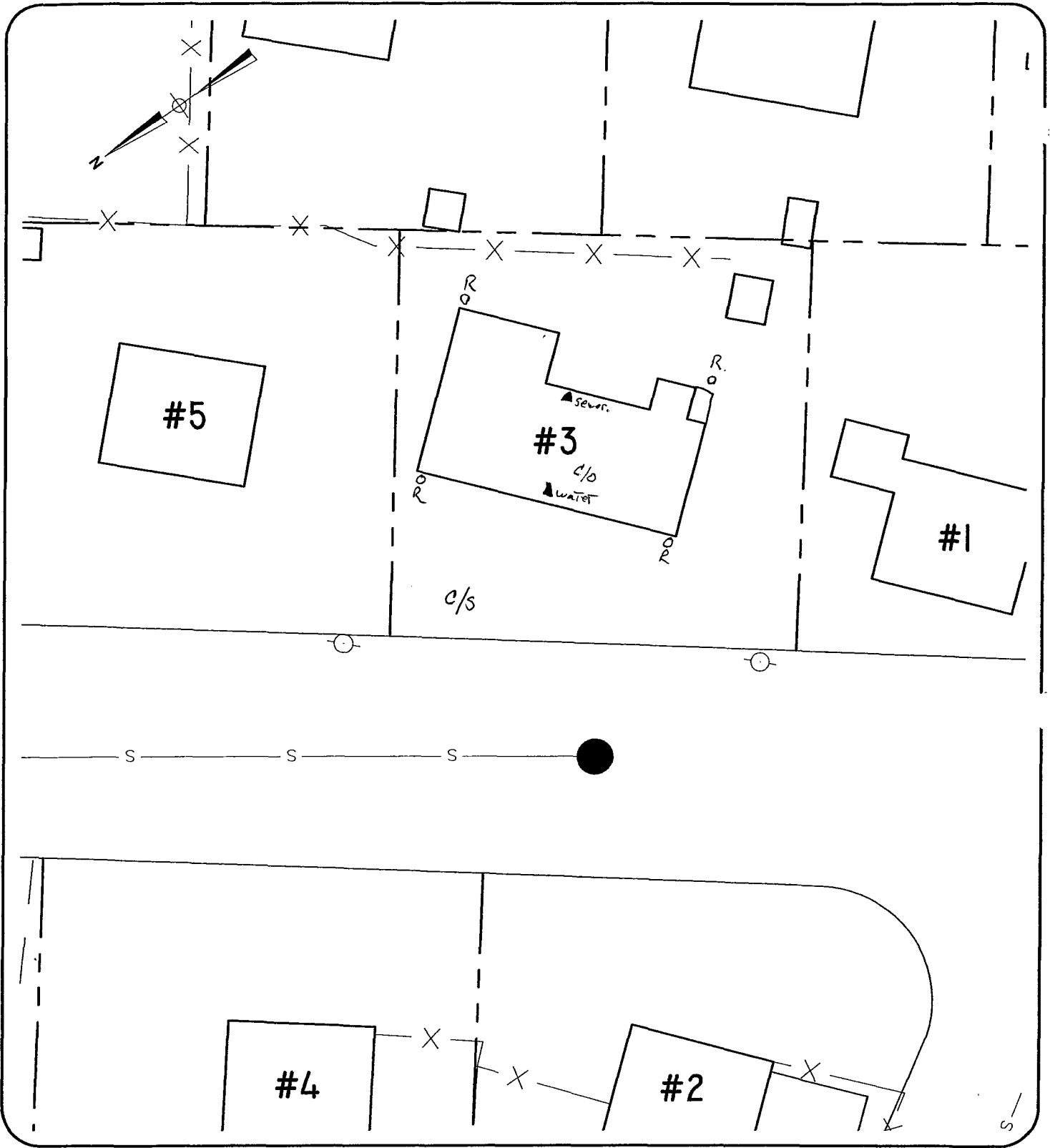
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | | OUTLET | |
|------------|--------------------------|--------|-------------------|
| d | - YARD OR DRIVEWAY DRAIN | ○ | ONTO SURFACE |
| x | - DOWNSPOUT | ● | INTO GROUND |
| r | - ROOF LEADER | ⊙ | ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
TILTON AVENUE
 ADDRESS: #3
 BY#: RSJ

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 4 TILTON AVE Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date	<u>10-7-09</u>	Time:	<u>17:47</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2 nd Visit: Date	<u>10-8-09</u>	Time:	<u>14:59</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3 rd Visit: Date	<u>10-12-09</u>	Time:	<u>10:56</u>	Unsuccessful	Not Admitted <input type="checkbox"/>	Other _____
	<u>10-26-09</u>		<u>17:55</u>			

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

i. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

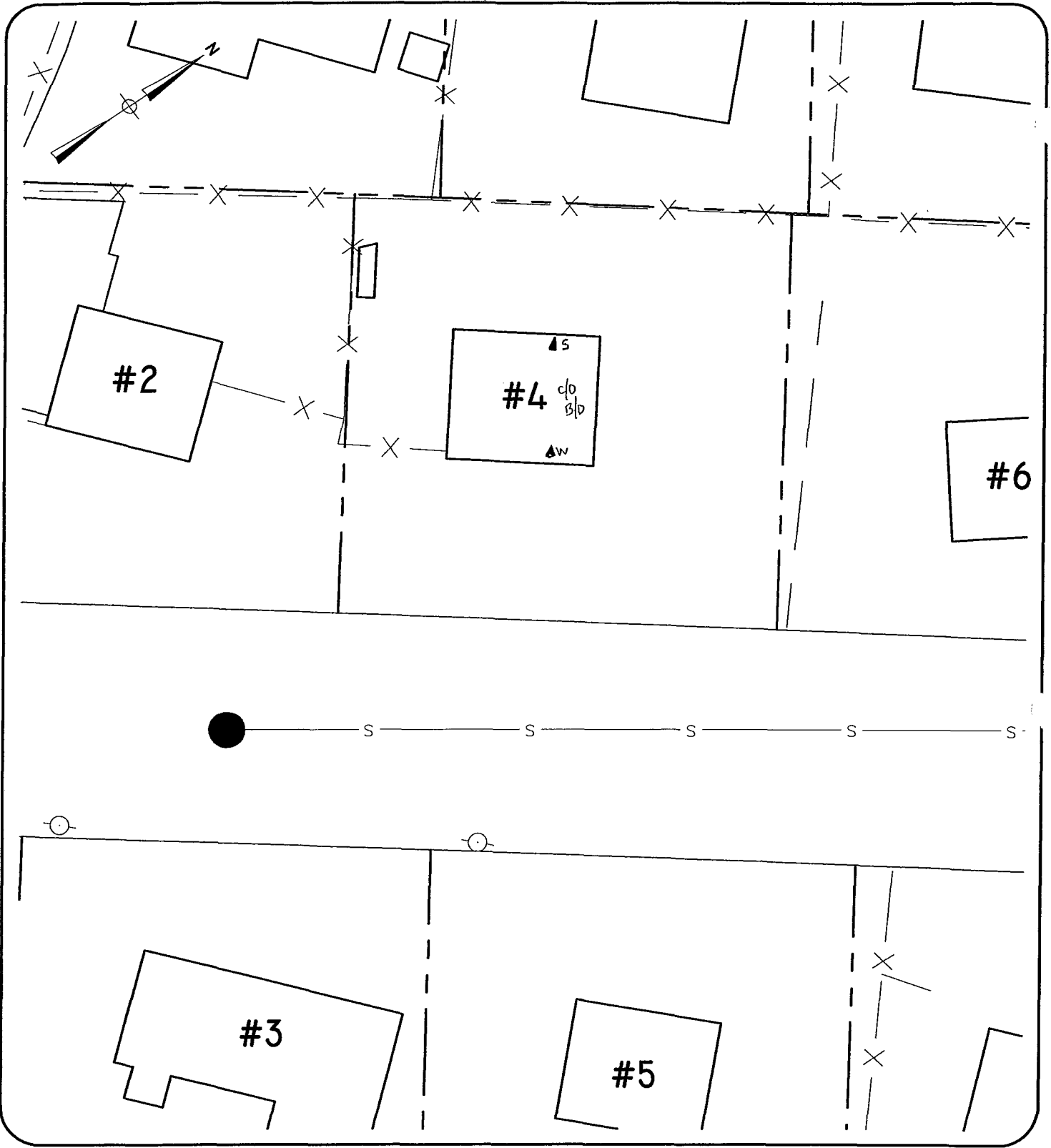
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-26
 STREET: _____
TILTON AVENUE
 ADDRESS: #4
 BY#: PPC

HOUSE SURVEY

**I/I Engineering Services
Foster, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 5 TILTON AVE Interviewer EST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1748 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 79"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Sump pump goes into clean out and is sealed around it.

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

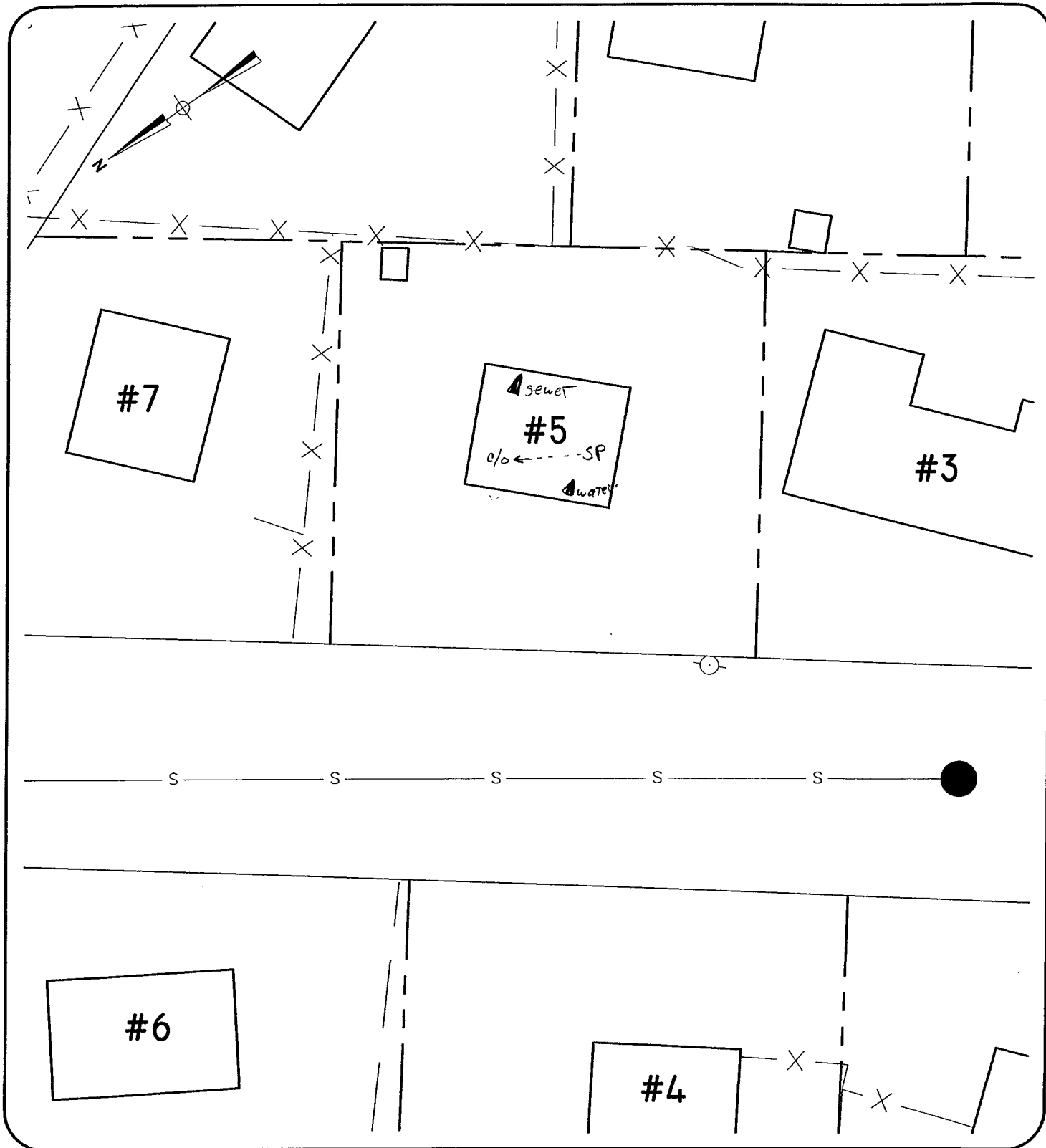
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-7-09

STREET: _____
TILTON AVENUE

ADDRESS: #5
BY#: RS7

HOUSE SURVEY

AI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 6 TILTON AVE Interviewer RST/RL/RST/RL

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1755 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 13:00 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1058 Unsuccessful _____ Not Admitted Other _____
10-21-09 12:35

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: When basement floods owner uses portable sump to surface.

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: portable sump is used no pit.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain / Open Pipe Sump Pit Recommend Dye Test

Comments: _____

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

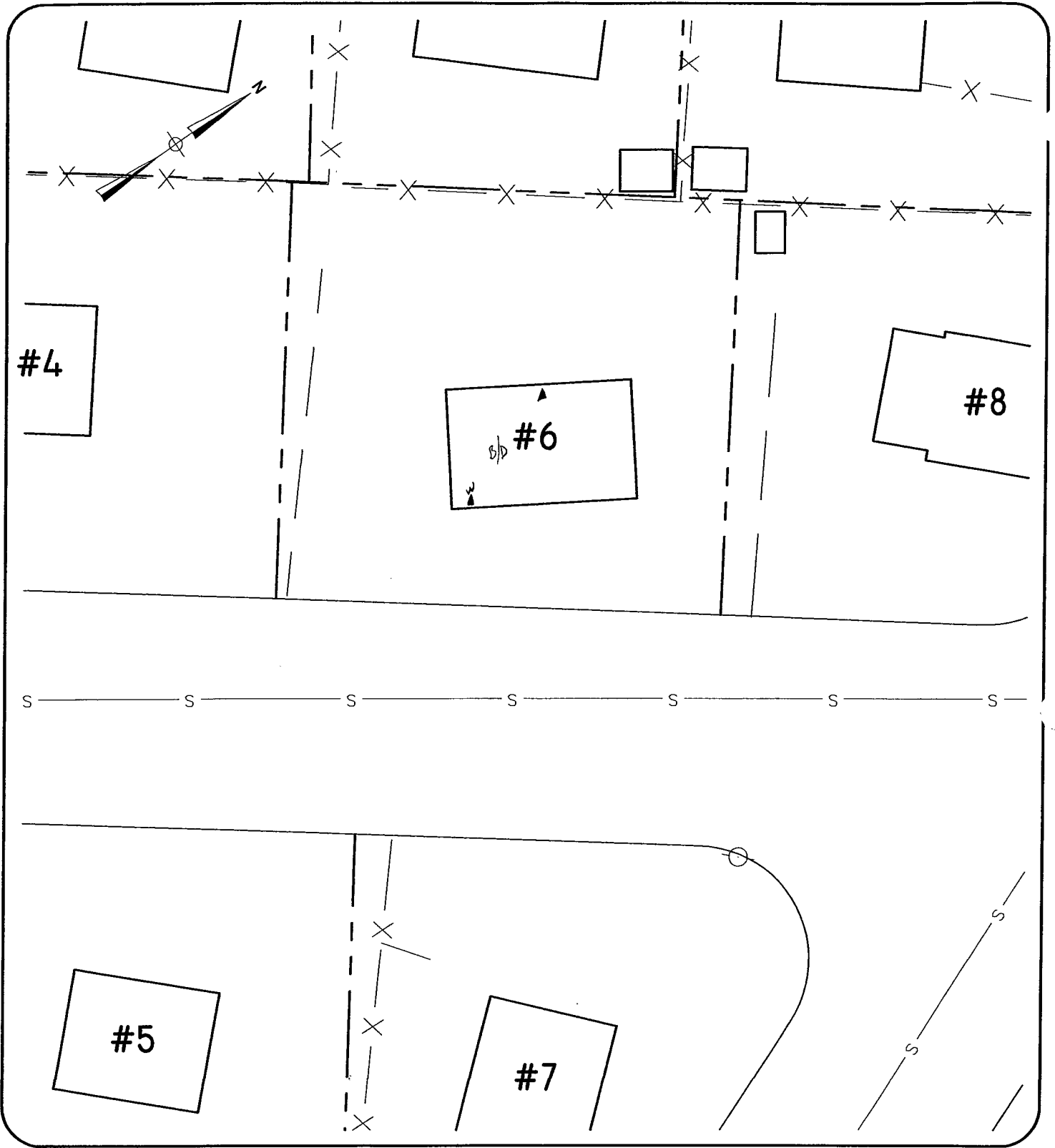
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-7-09
 STREET: _____
TILTON AVENUE
 ADDRESS: #6
 BY#: RS

HOUSE SURVEY

W Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 7 TILTON AVE Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1807 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: used portable sump to surface.

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: uses portable sump to surface per owner,

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: been plugged.

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

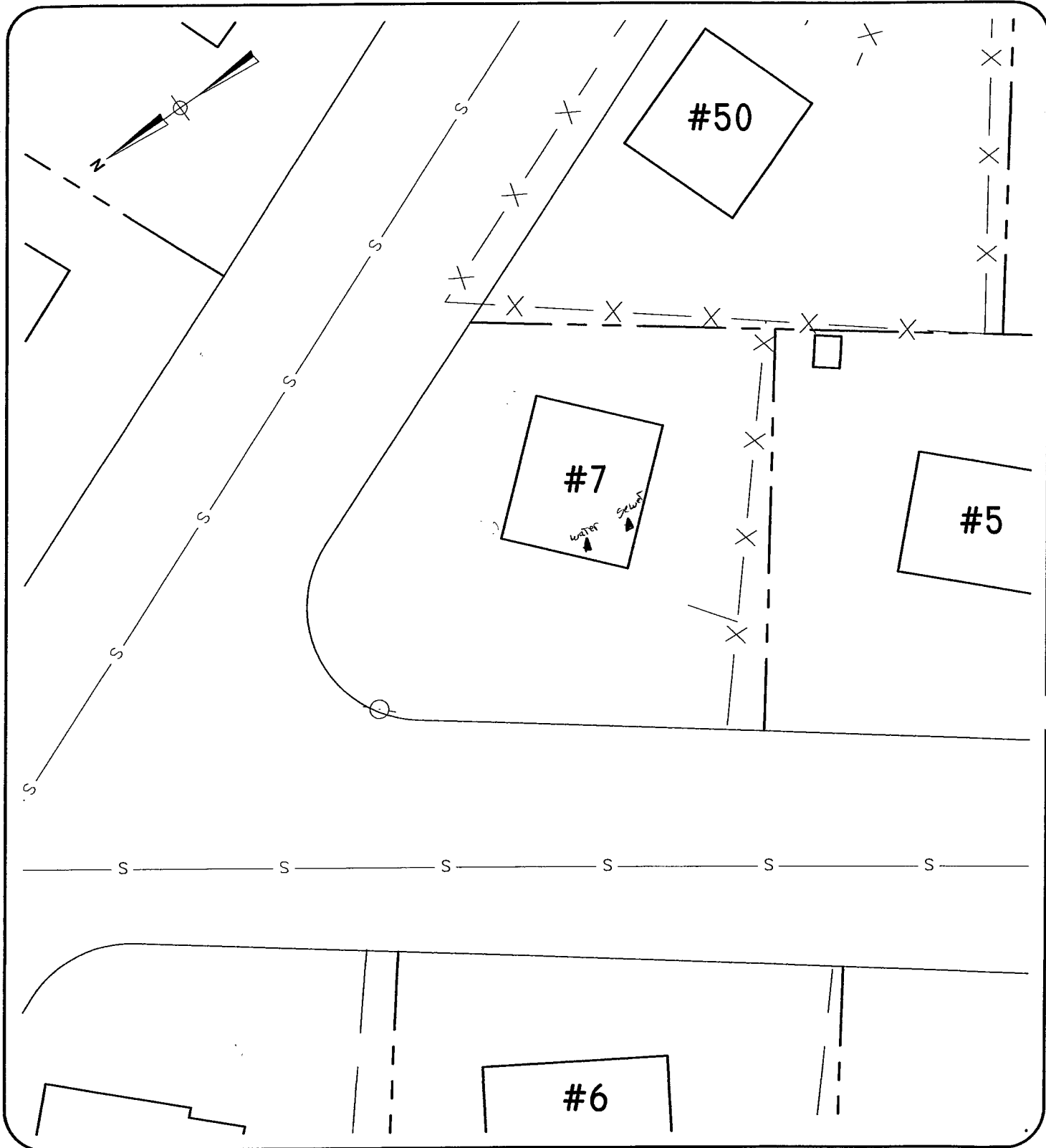
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
TILTON AVENUE
 ADDRESS: #7
 BY#: RST

SCALE: 1"=30'

HOUSE SURVEY

I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 8 TILTON Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

1st Visit: Date 10-7-09 Time: 1758 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump.

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: 2 sump pumps in home. during summer pumps to surf. / winter it goes to sanitary.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Cemented in:

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 4

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

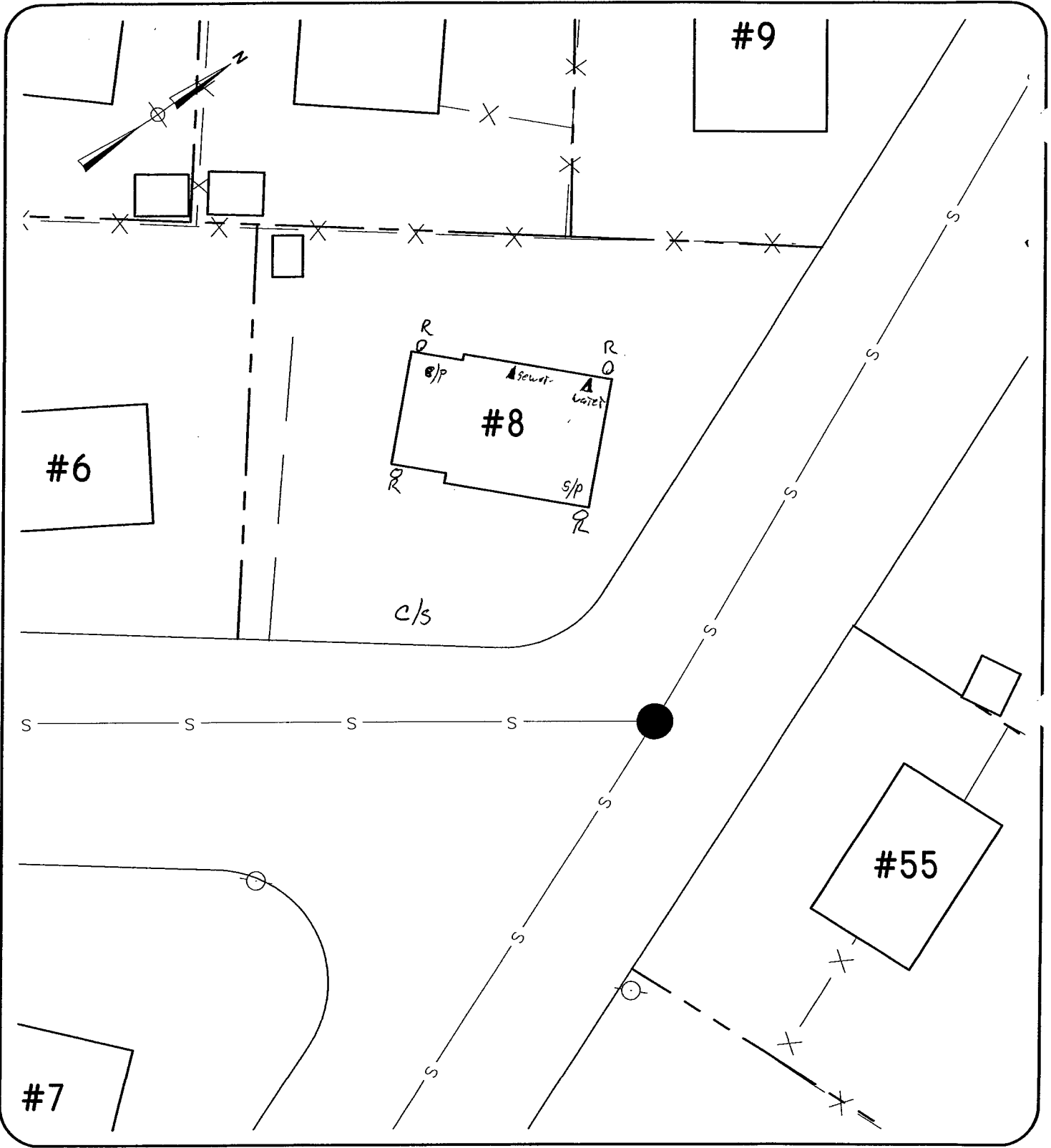
6. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
TILTON AVENUE
 ADDRESS: #8
 BY#: RST

25

HOUSE SURVEY

I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 3 Westside Dr Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1532 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 86"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: Sump goes into washer hook up to sanitary. (black flex hose)

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 6

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

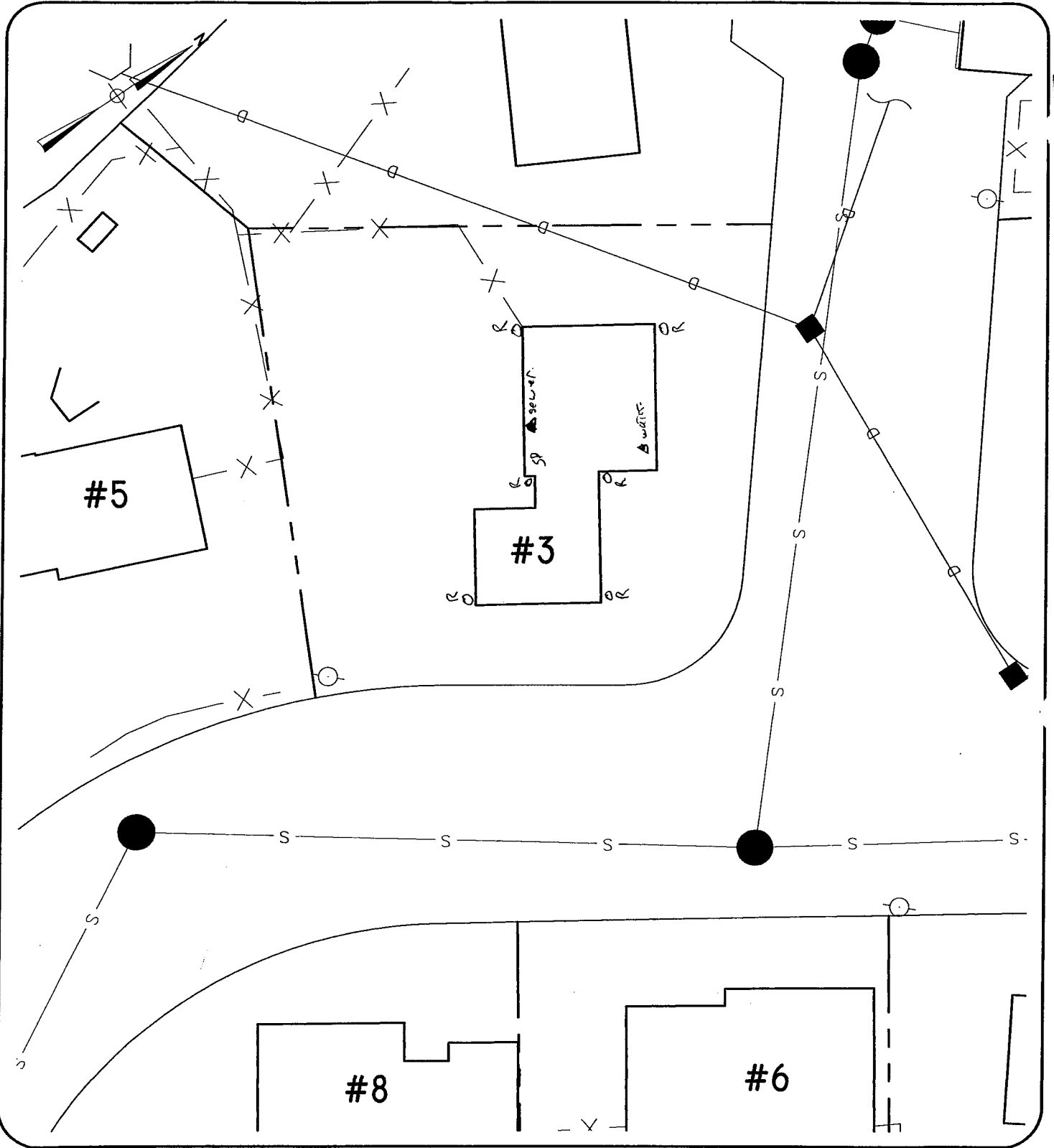
Cannot Locate Above Floor Level Distance from Sill 75" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #3
 BY#: RST

SCALE: 1"=30'

HOUSE SURVEY

VI Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 4 West side Dr Interviewer RST/EM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

1st Visit: Date 10-6-09 Time: 10:02 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 14:10 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: SUMP PUMPS TAKE CARE OF PROBLEM

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 83"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: RUNS OUT WINDOW

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation Ø RL Into Ground Ø RL Onto Surface Ø

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

4. Water Service Information:

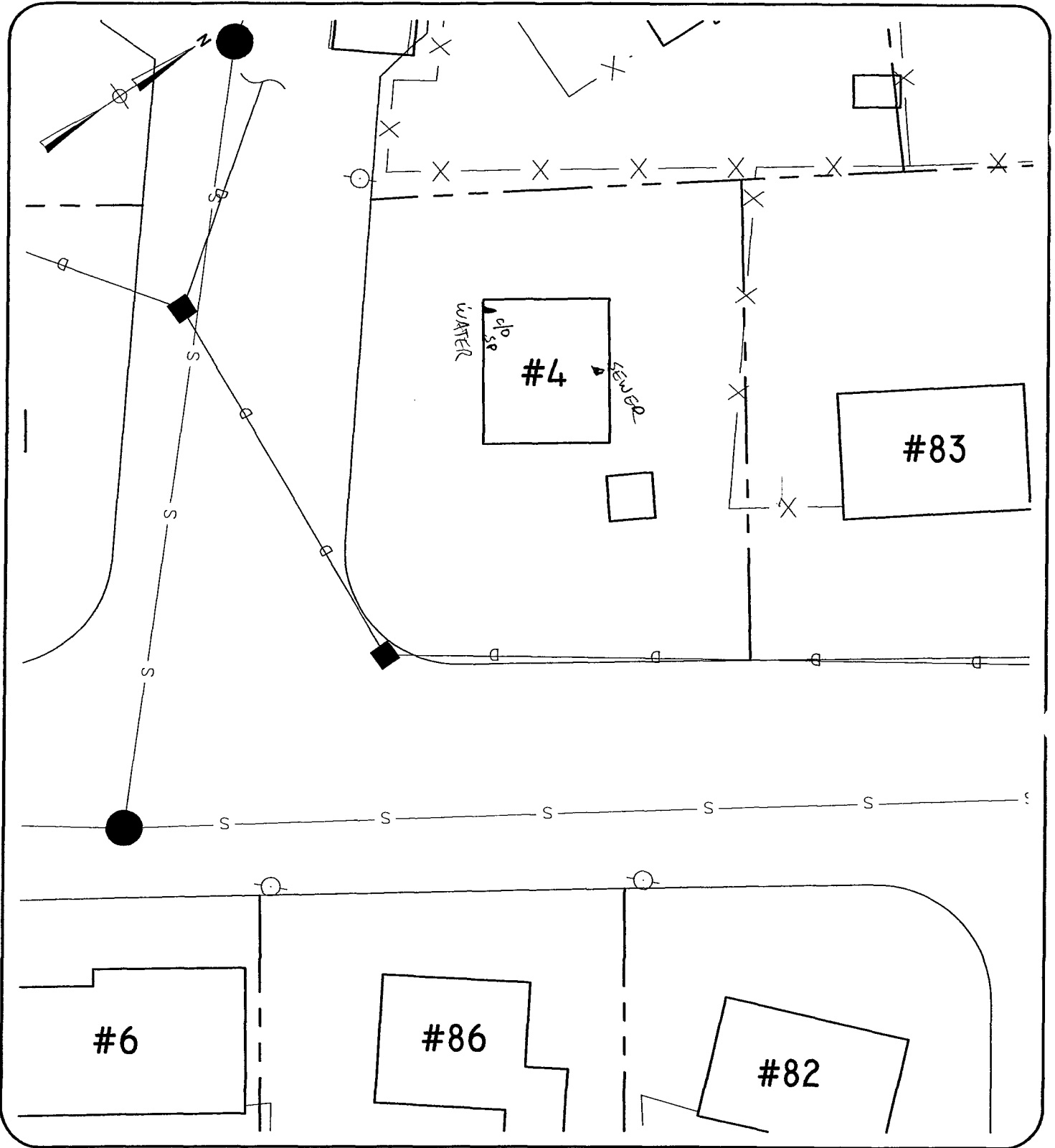
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-8-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #4
 BY#: RM

HOUSE SURVEY

AI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 5 Westside Dr. Interviewer RST/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 10:07 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 3

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

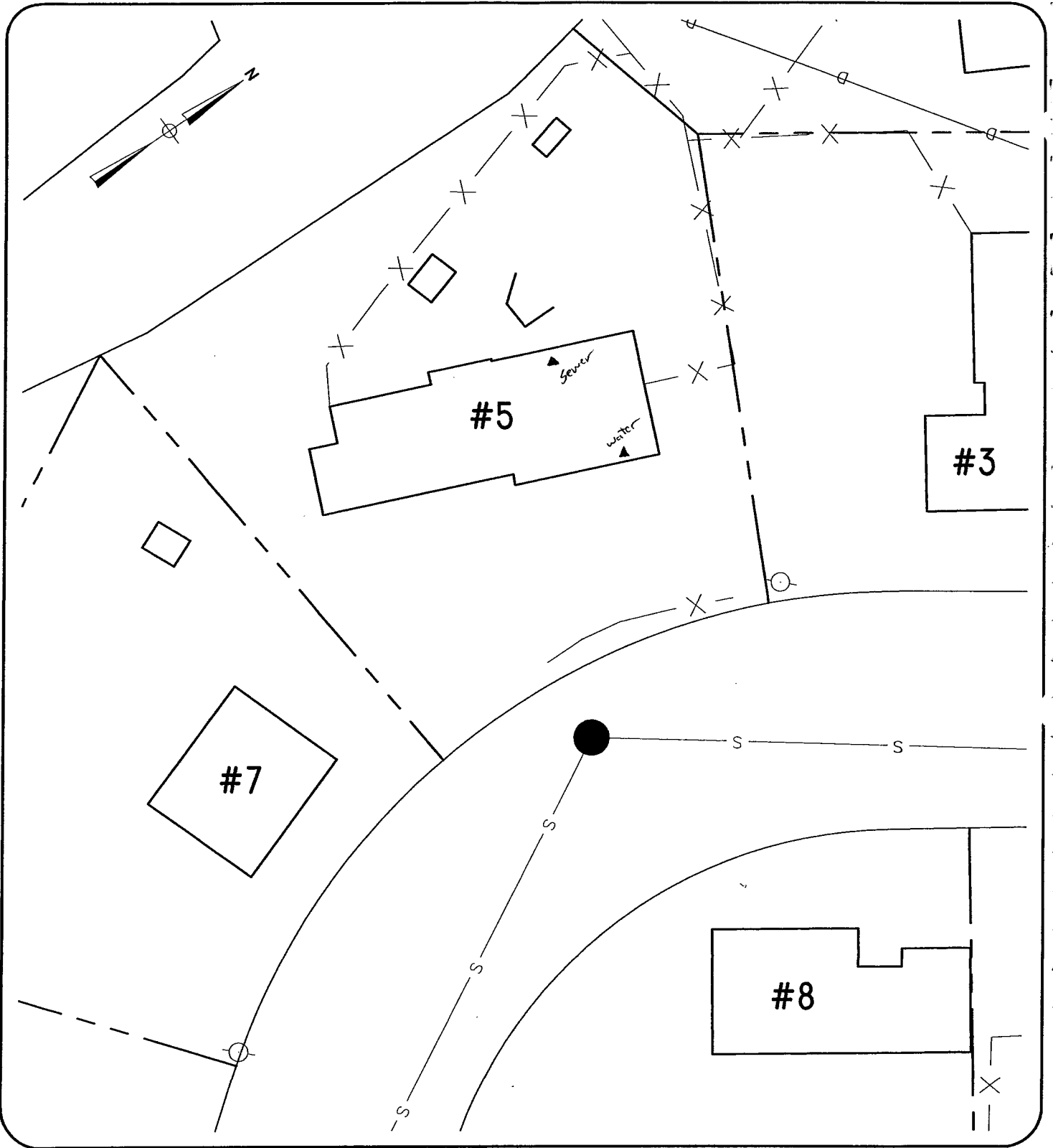
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #5
 BY#: IPC/AT

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 6 West side Dr. Interviewer RST/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 10:36 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 14:18 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-8-09 Time: 18:57 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 32"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 5

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

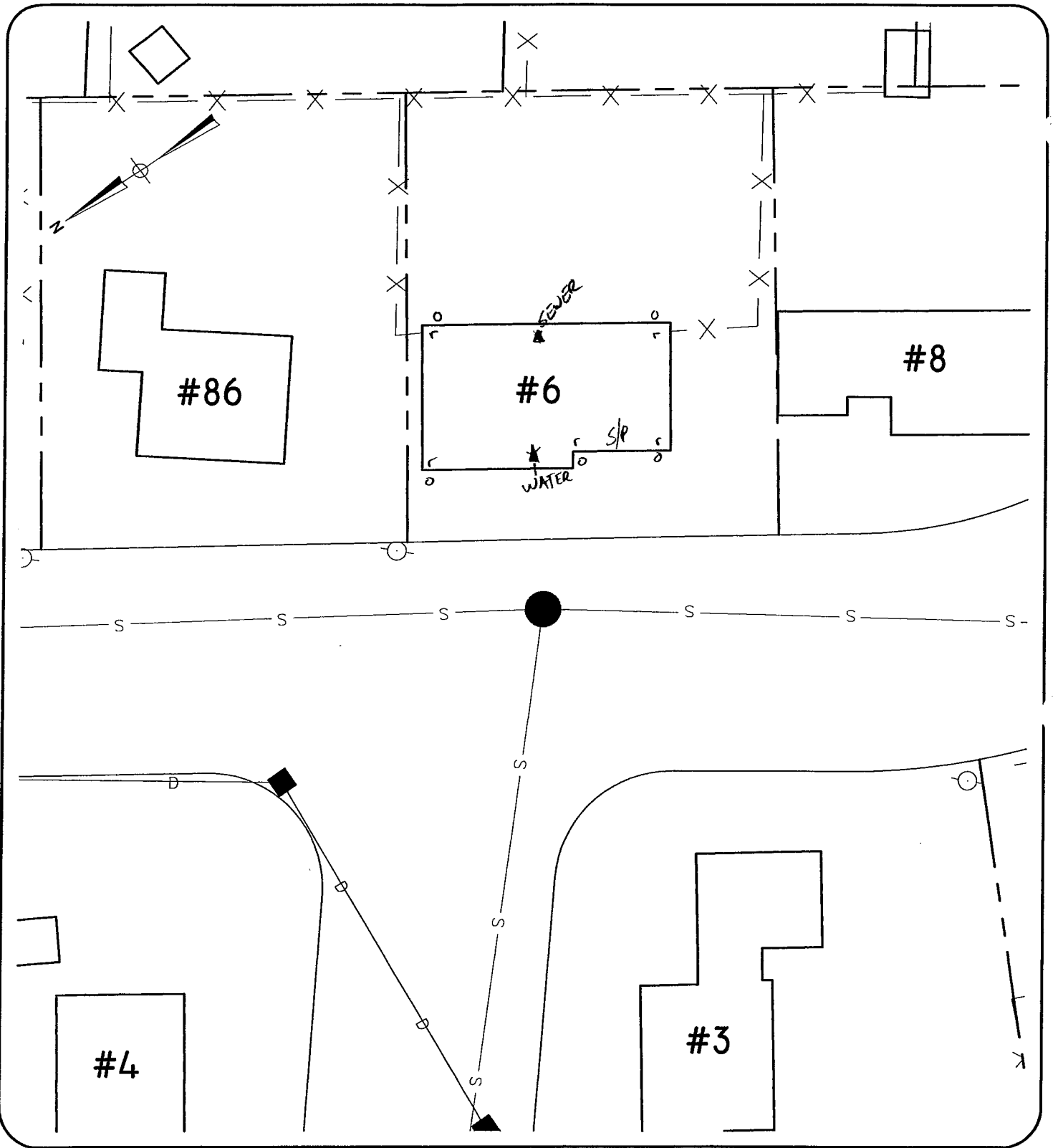
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #6
 BY#: RT/Rm

HOUSE SURVEY

VI Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 7 Westside Dr Interviewer RST/APC

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 10:46 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Flooding From River in Heavy Rain, Home owner sand bags when necessary

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82.5

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation Ø RL Into Ground Ø RL Onto Surface Ø

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

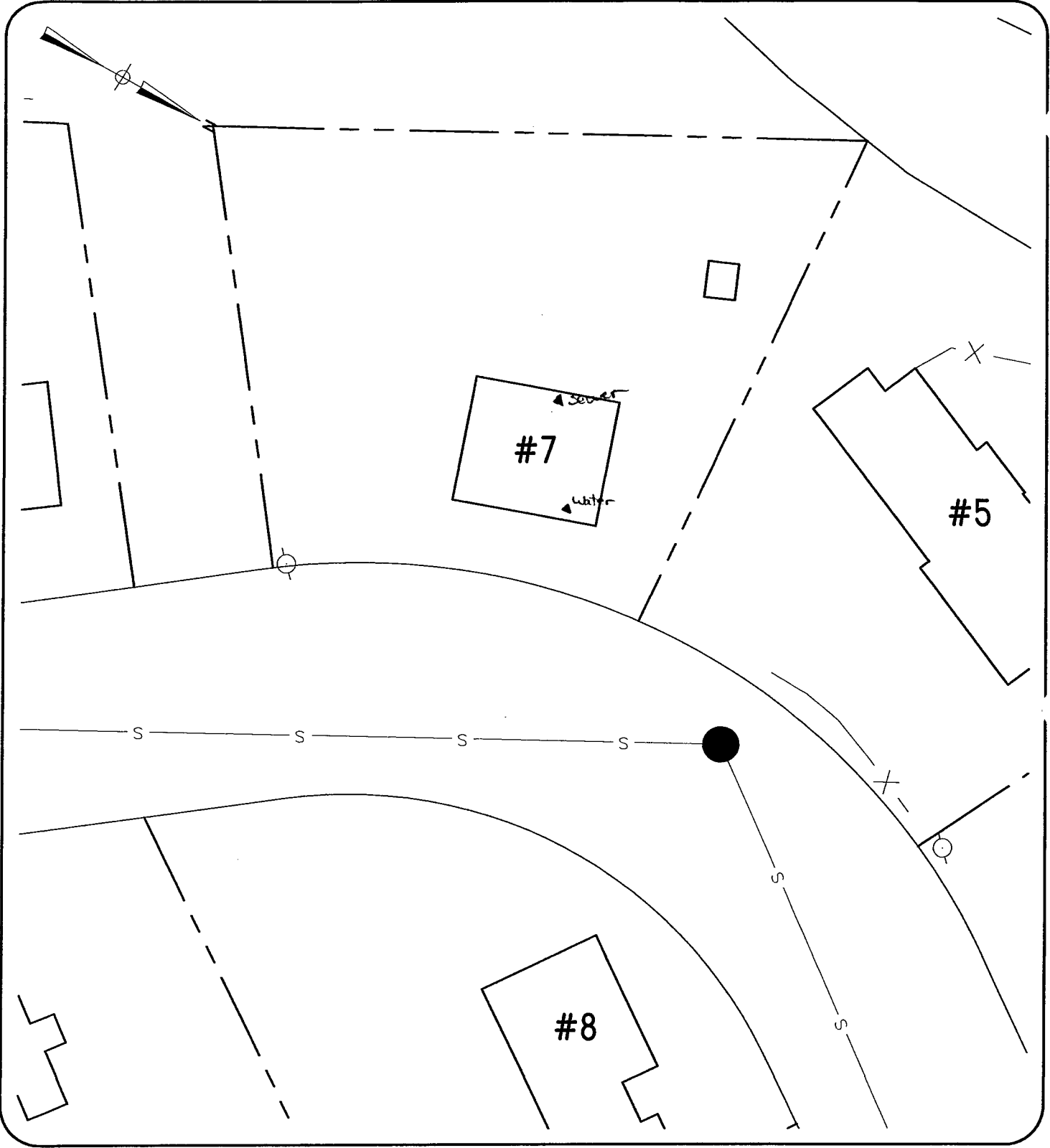
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

House-to-House Survey
I&I Engineering Services
Exeter, NH

<u>DRAIN TYPE</u>	<u>OUTLET</u>
d - YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x - DOWNSPOUT	● INTO GROUND
r - ROOF LEADER	⊙ ENTERS FOUNDATION

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #7
 BY#: _____

HOUSE SURVEY

J Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 8 westside dr. Interviewer RST/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

1st Visit: Date 10-6-09 Time: 10:42 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 14:20 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1134 Unsuccessful Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump takes care of water.

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 84"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other Copper

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other sump pump is hooked into floor drain. unsure where drain goes

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 2 RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

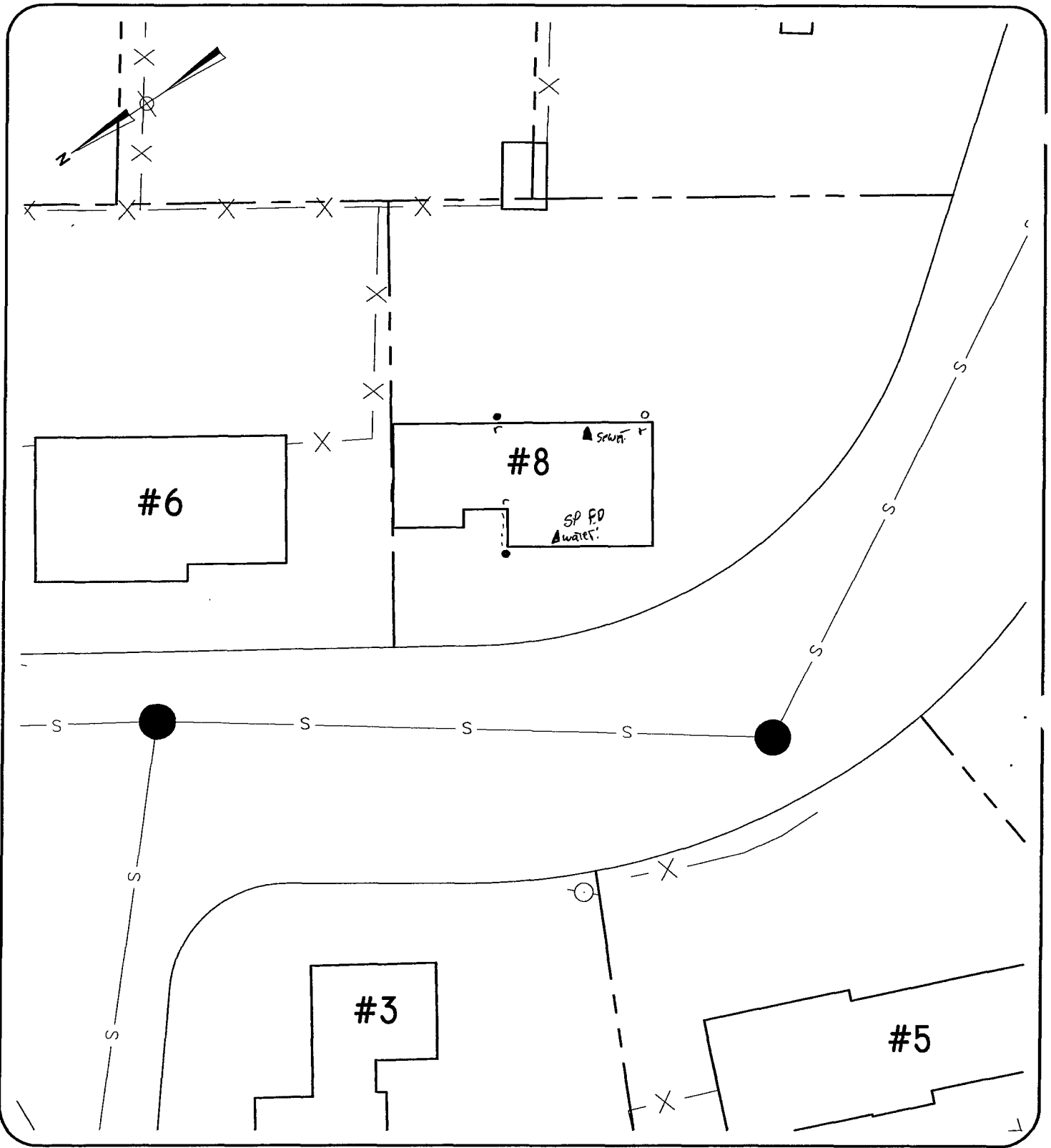
4. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- O ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-12-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #8
 BY#: R51

SCALE: 1"=30'

HOUSE SURVEY

Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 9 Westside Dr Interviewer RST / PRC

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 11:20 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 78"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 4

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

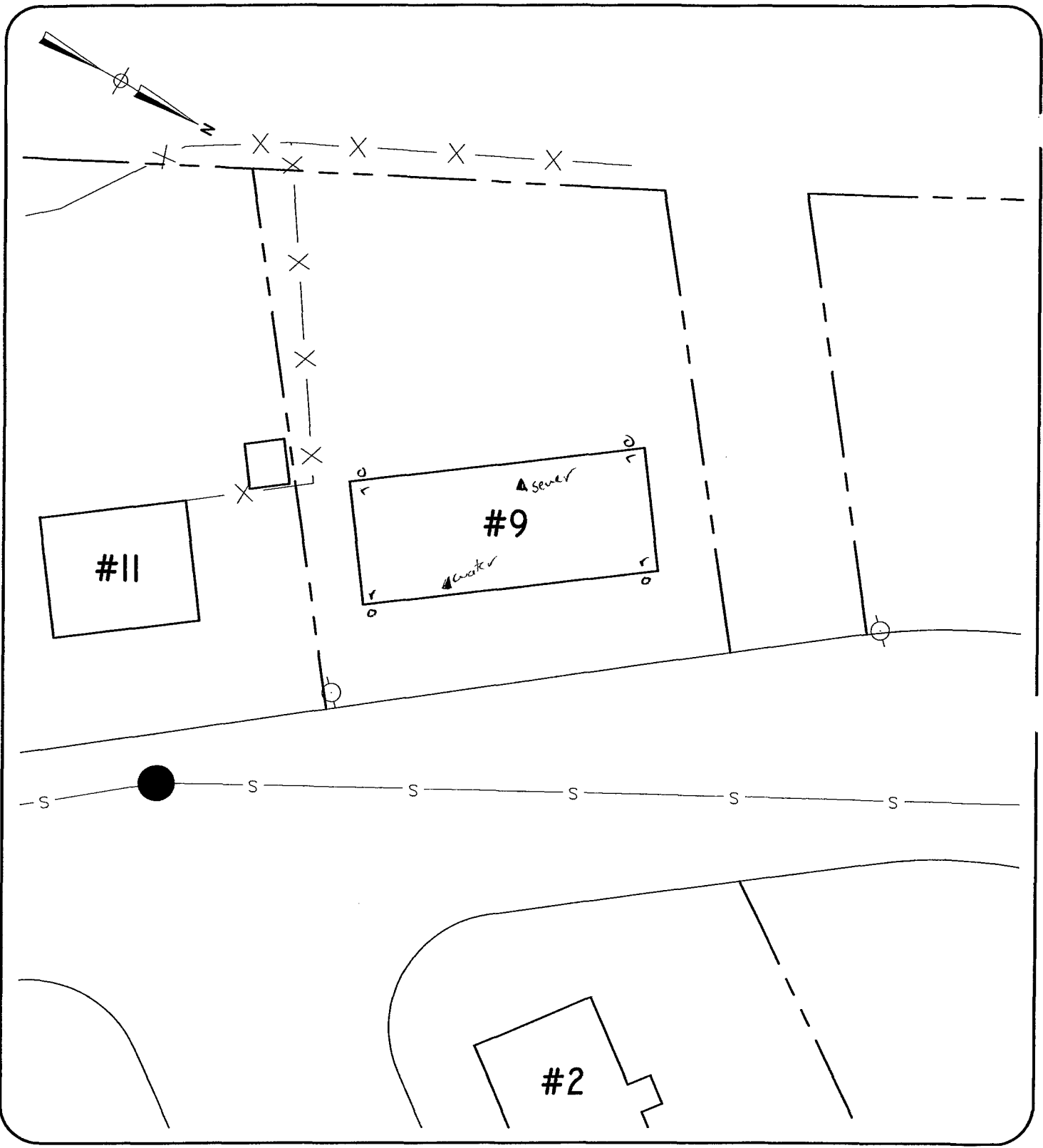
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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- SCHEMATIC INFORMATION CHECKLIST**
- WATER SERVICE _____
 - SEWER SERVICE _____
 - CURB STOP _____
 - WATER METER _____
 - SUMP PUMP _____
 - DRAIN LINE _____
 - CLEAN OUTS _____
 - UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|-----------------------|
| d - YARD OR DRIVEWAY DRAIN | o - ONTO SURFACE |
| x - DOWNSPOUT | ● - INTO GROUND |
| r - ROOF LEADER | ⊙ - ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: 11:22
WESTSIDE DRIVE
 ADDRESS: #9
 BY#: RLC BT

HOUSE SURVEY

ME Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 11 Westside Dr. Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date <u>10-6-09</u>	Time: <u>11:24</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2 nd Visit: Date <u>10-8-09</u>	Time: <u>11:30</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3 rd Visit: Date <u>10-8-09</u>	Time: <u>18:05</u>	Unsuccessful	Not Admitted <input type="checkbox"/>	Other _____
<u>10-12-09</u>	<u>11:31</u>			
<u>10-13-09</u>	<u>17:20</u>			

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)
Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation Ø RL Into Ground Ø RL Onto Surface Ø

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

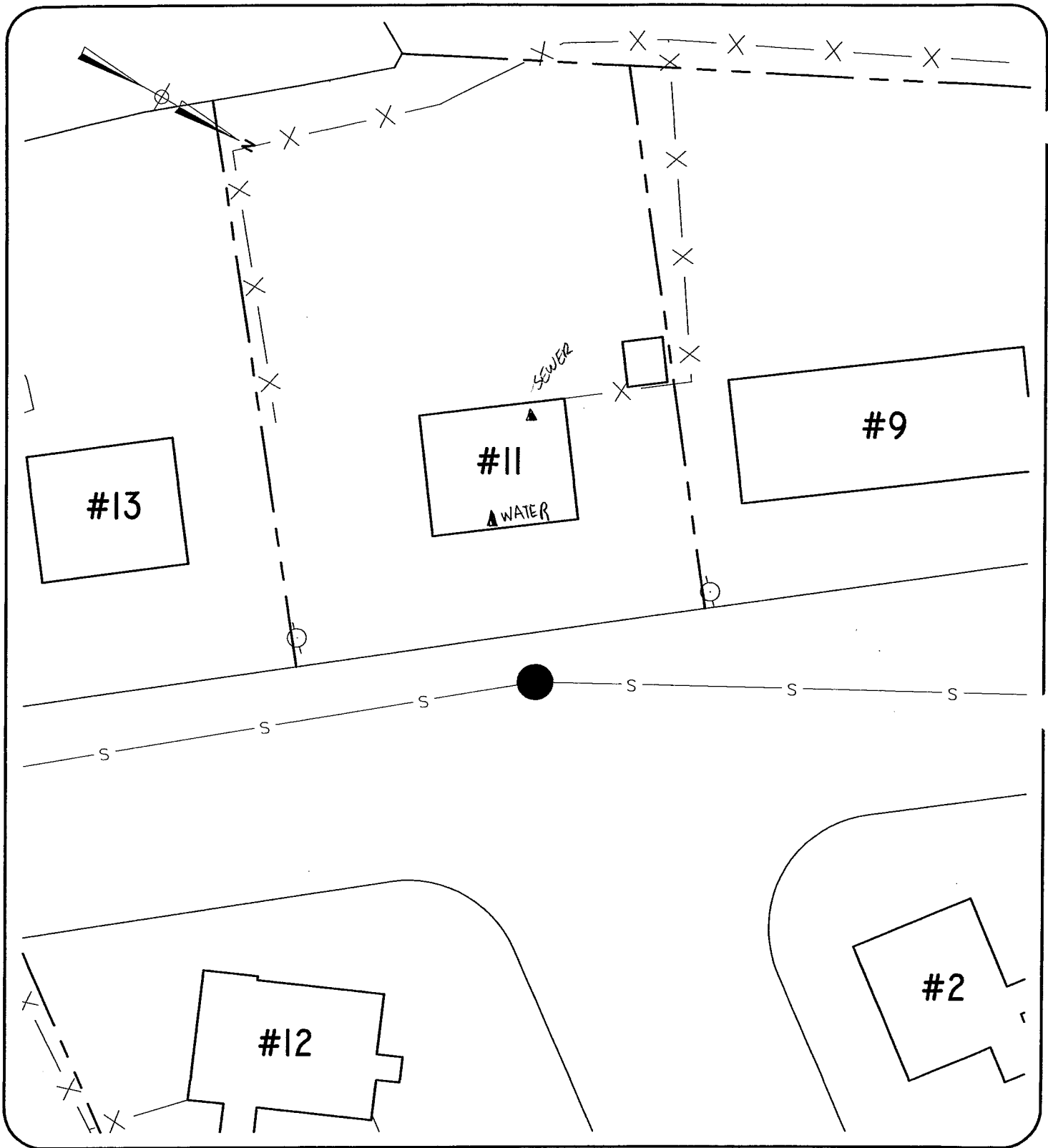
Comments: _____

7. Water Service Information:
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE -- SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #11
 BY#: RM

SCALE: 1"=30'

HOUSE SURVEY

W/I Engineering Services
eter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 12 westside Dr Interviewer RST/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 11:52 Unsuccessful, Left Flyer Not Admitted Other _____

2nd Visit: Date 10-8-09 Time: 11:45 Unsuccessful, Left Flyer Not Admitted Other _____

3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: NEVER! - SEALED BASEMENT WITH WATER PROOFING 40 YEARS AGO. RESEALED EVERY 4 YEARS NO ISSUES WHATSOEVER

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 77"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: DUMPS DEHUMIDIFIER INTO SUMP PIT ONLY

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 3

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

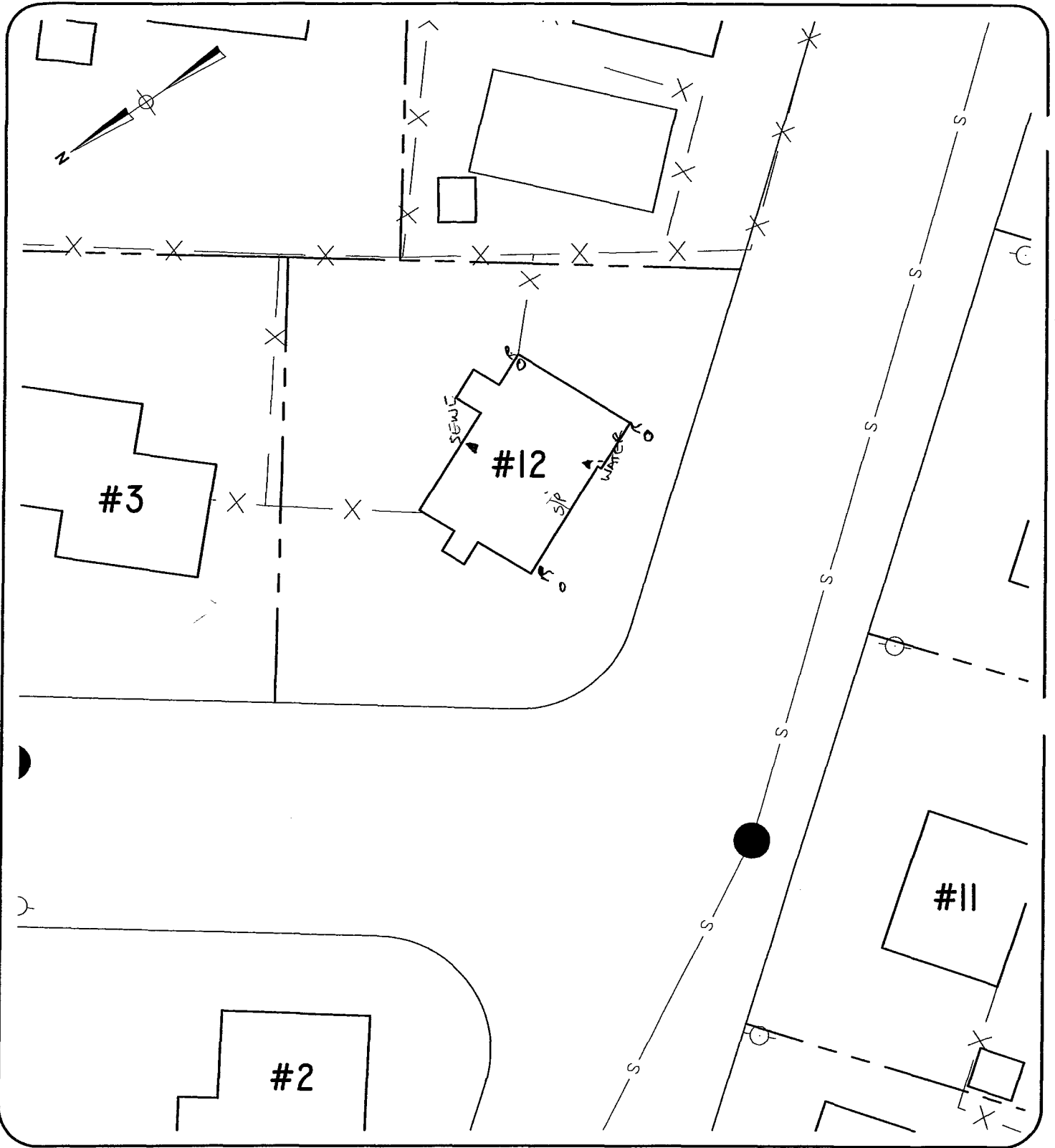
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-8-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #12
 BY#: RM

HOUSE SURVEY

Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Account # _____ Tax Map # _____ Sub System _____ Street # 13 Westside Dr Interviewer RST/ppc
Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant
Initial Visit: Date 10-6-09 Time: 11:50 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: When heavy rain water came up from floor drain and cemented floor drain to stop water entry

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81.5"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

3. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Recently filled with cement.

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

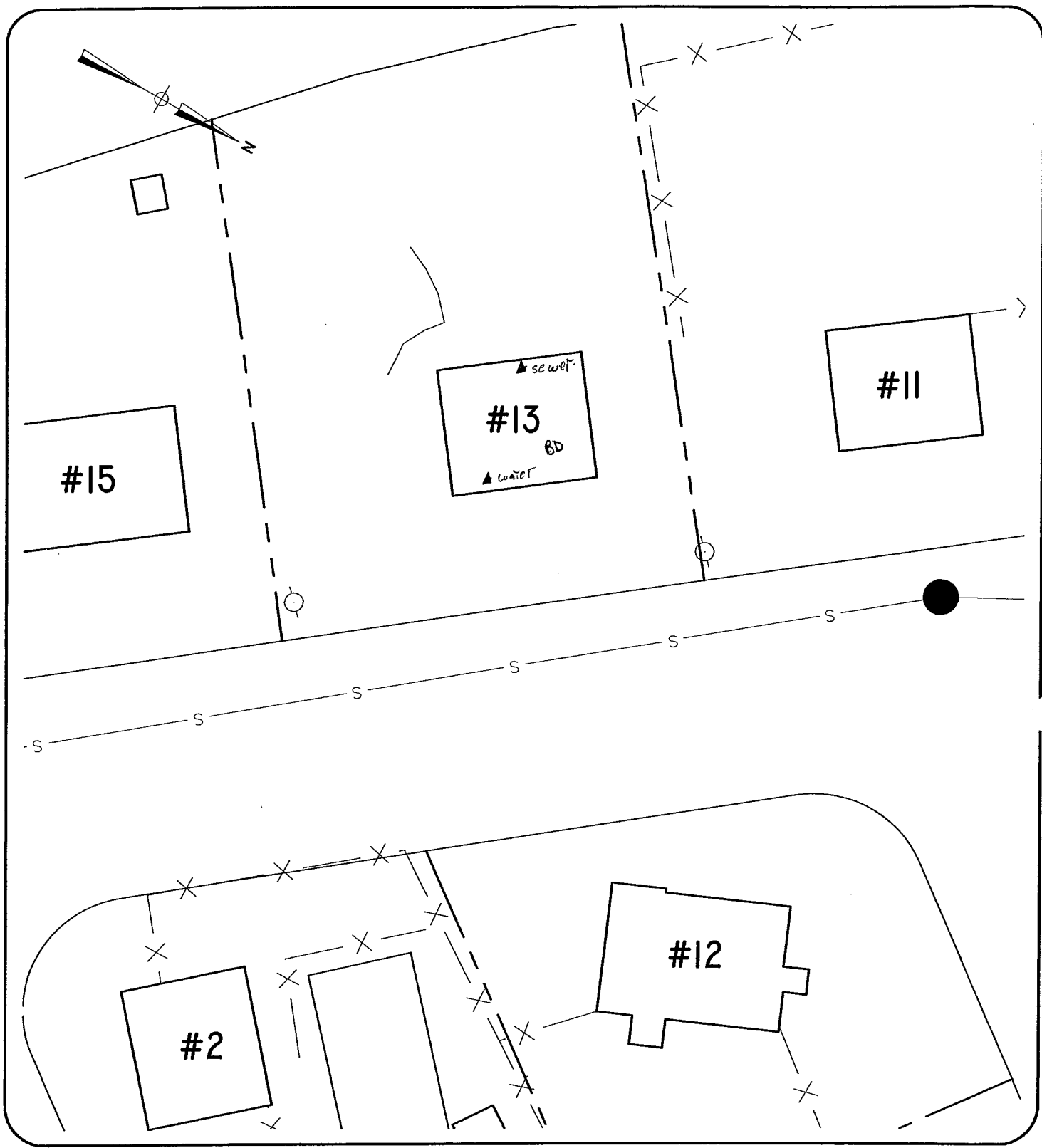
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

House-to-House Survey
I&I Engineering Services
Exeter, NH

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #13
 BY#: RSJ/APC

SCALE: 1"=30'

HOUSE SURVEY

**/I Engineering Services
Bedford, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 15 Westside Dr Interviewer BST/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 11:30 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 14:50 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: NO FLOOD SINCE SUMP PUMP WAS INSTALLED

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: C/O CAPPED

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

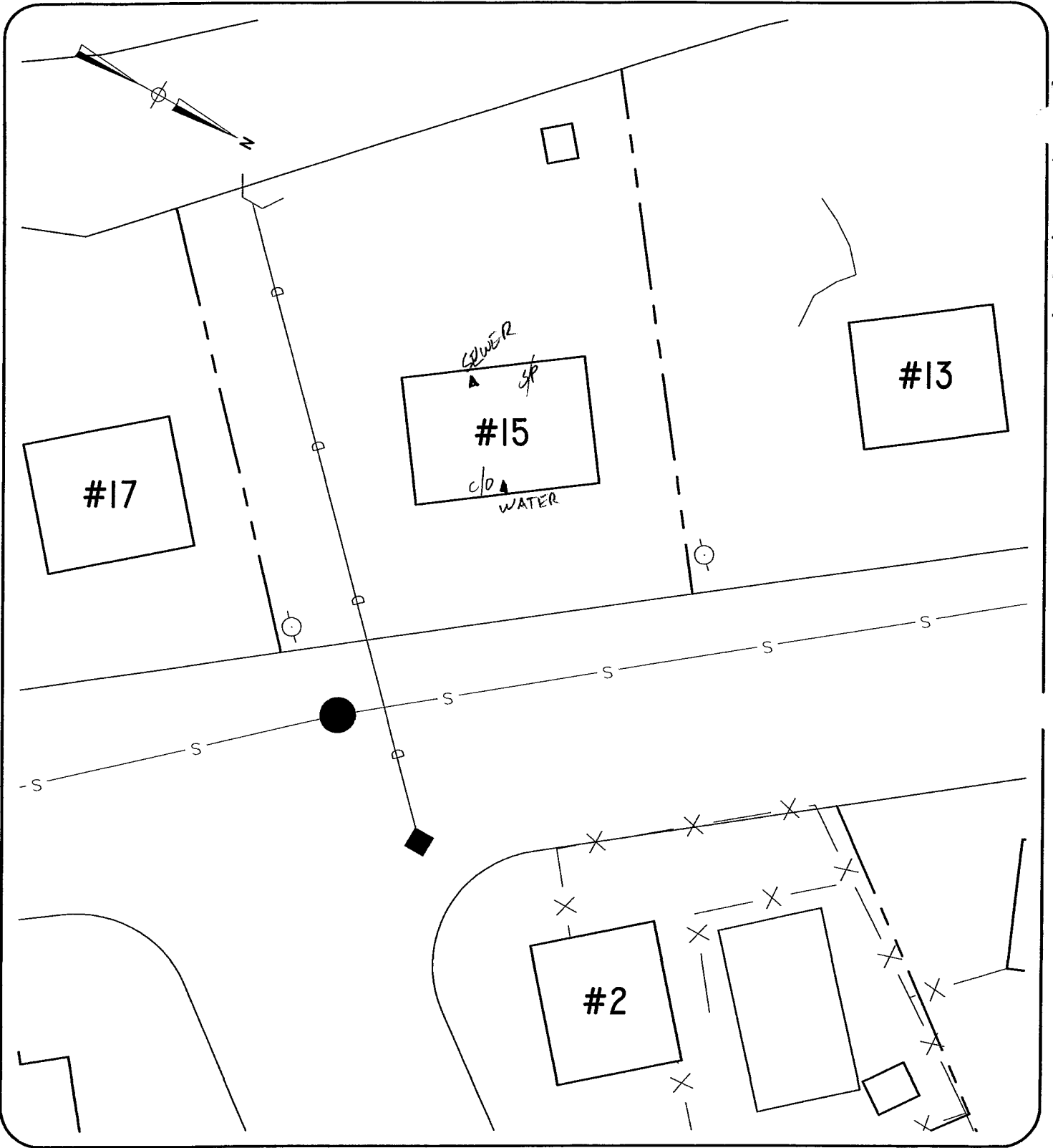
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #15
 BY#: RST/RPC

HOUSE SURVEY

**AI Engineering Services
Bedford, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 17 Westside RT Interviewer RST/ppp

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 12-6-09 Time: 1159 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: Partial finished Basement + Bathroom

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 3

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

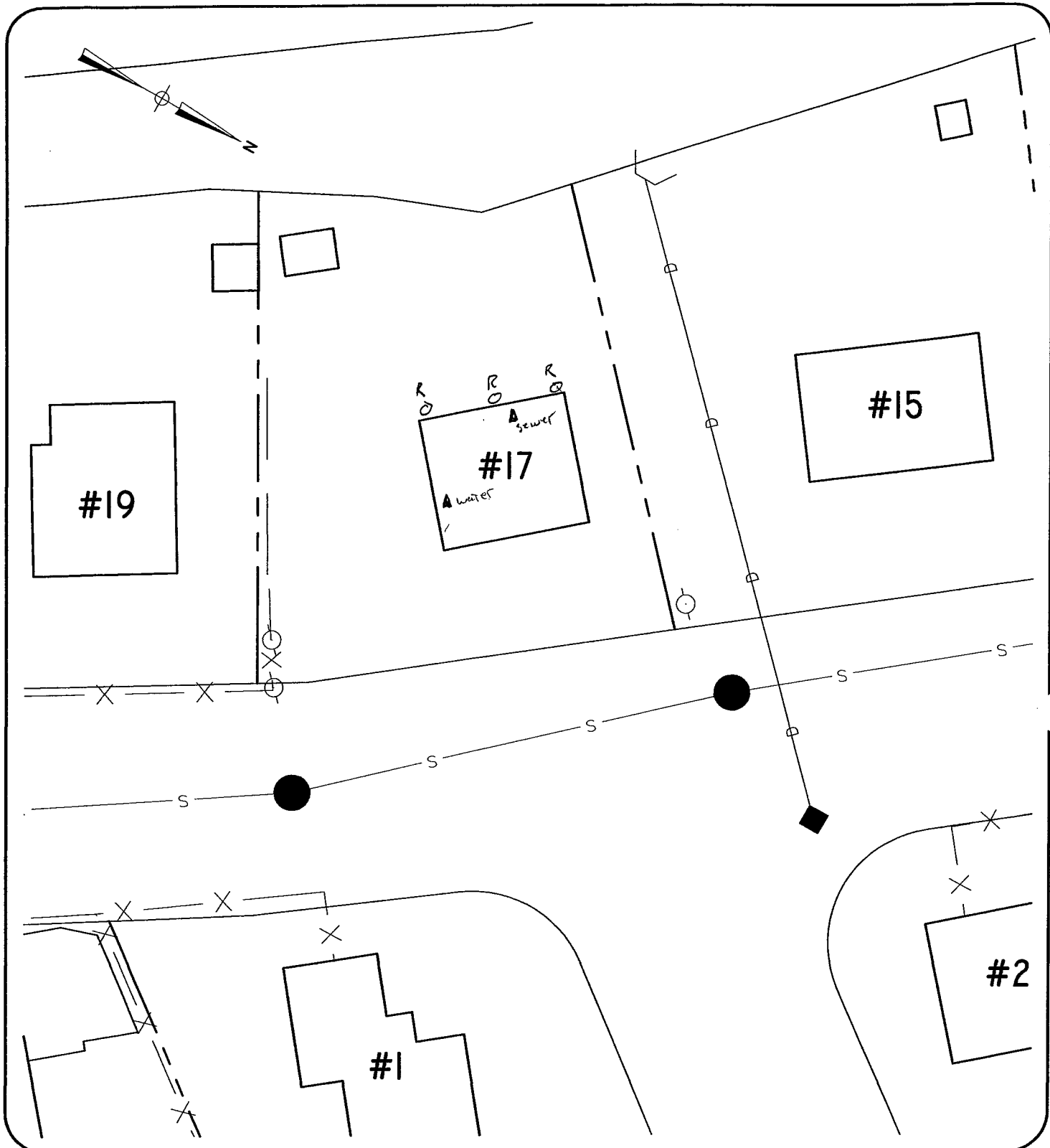
Cannot Locate Above Floor Level Distance from Sill 80.5" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 6-10-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #17
 BY#: RST/ppc

SCALE: 1"=30'

HOUSE SURVEY

Engineering Services
ter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 19 Westside Dr Interviewer RST/ppc/RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1202 Unsuccessful, Left Flyer Not Admitted Other _____
 2nd Visit: Date 10-8-09 Time: 14:51 Unsuccessful, Left Flyer Not Admitted Other _____
 3rd Visit: Date 10-12-09 Time: 1108 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?
 Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____
 Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____
 Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level
 Pipe Material: Cast Iron PVC Clay Other _____
 Comments: _____

4. Is there a Sump Pump? Yes No
 If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate
 Unknown Other _____
 Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)
 Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test
 Comments: _____

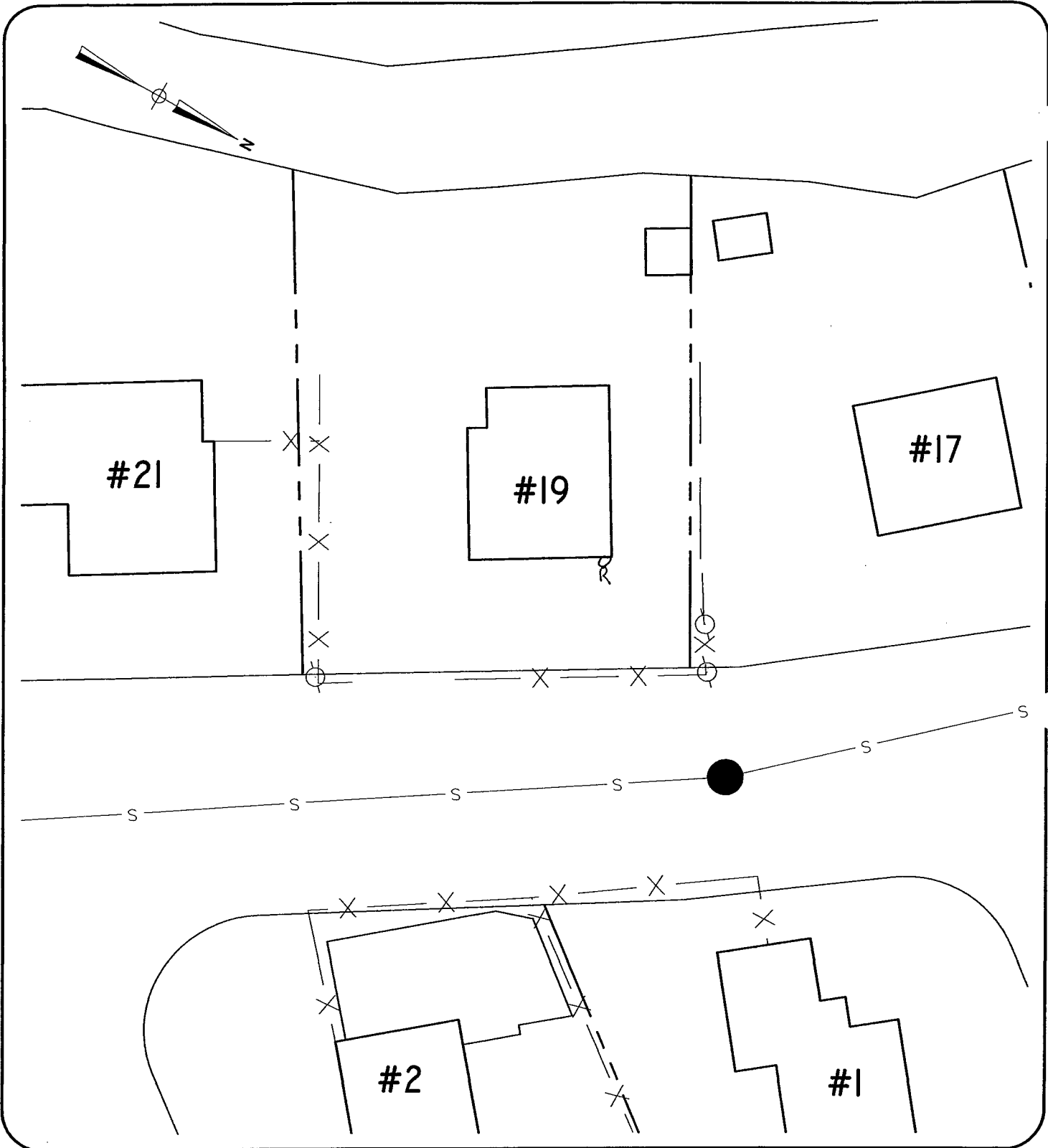
6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)
 Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 1
 Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain
 Comments: _____

7. Water Service Information:
 Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level
 Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: Denied access By owner

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- O ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-20-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #19
 BY#: RST/OPC

HOUSE SURVEY

Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 20 Westside Dr. Interviewer RST/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 12:28 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

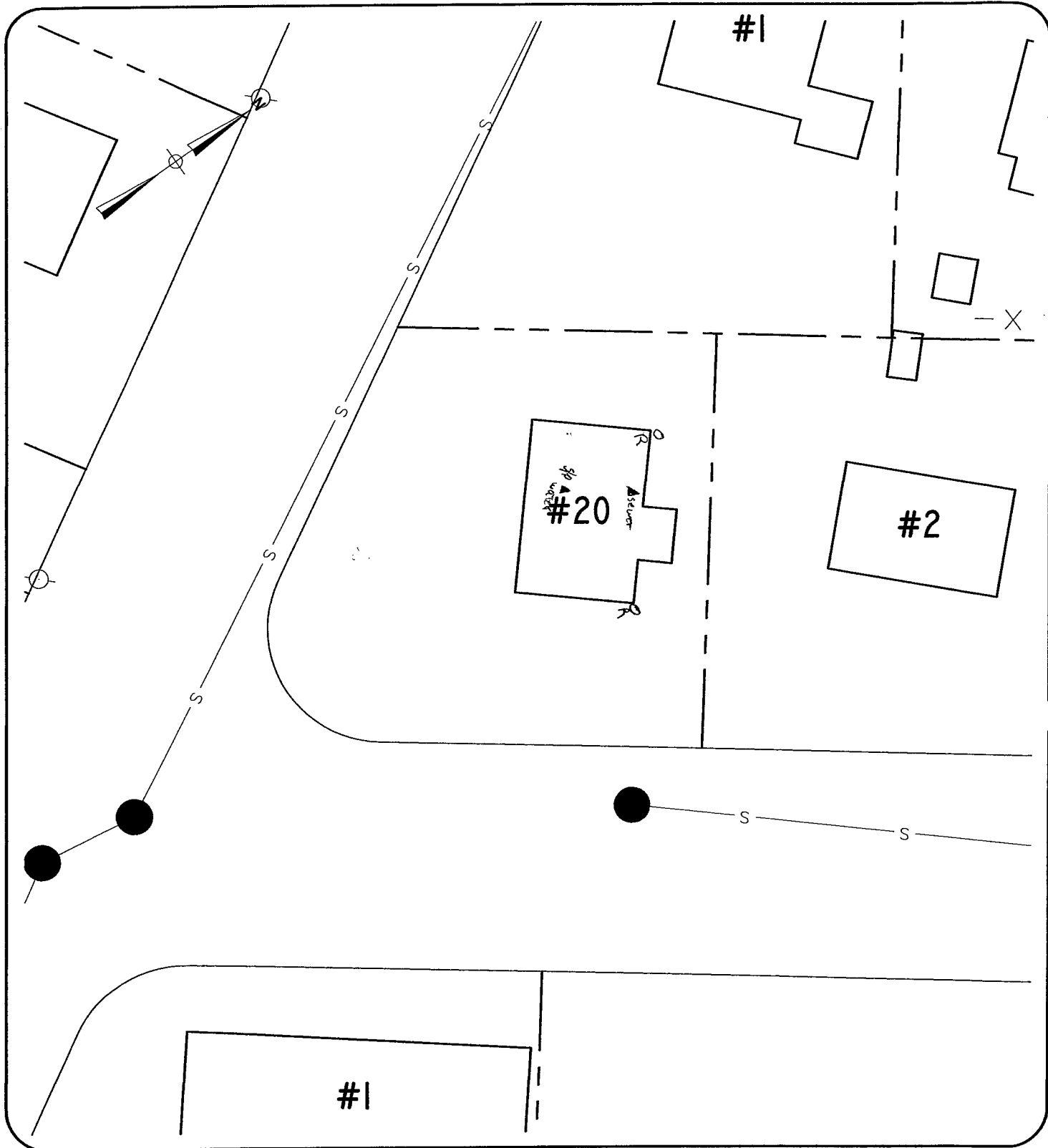
Cannot Locate Above Floor Level Distance from Sill 82" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: partially finish basement (with toilet)

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09

STREET: _____
WESTSIDE DRIVE

ADDRESS: #20

BY#: RST/ppc

SCALE: 1"=30'

HOUSE SURVEY

Engineering Services
eter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 21 westside dr Interviewer RSJ/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 12:14 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 17:57 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-8-09 Time: 18:20 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 1 RL Onto Surface 3

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

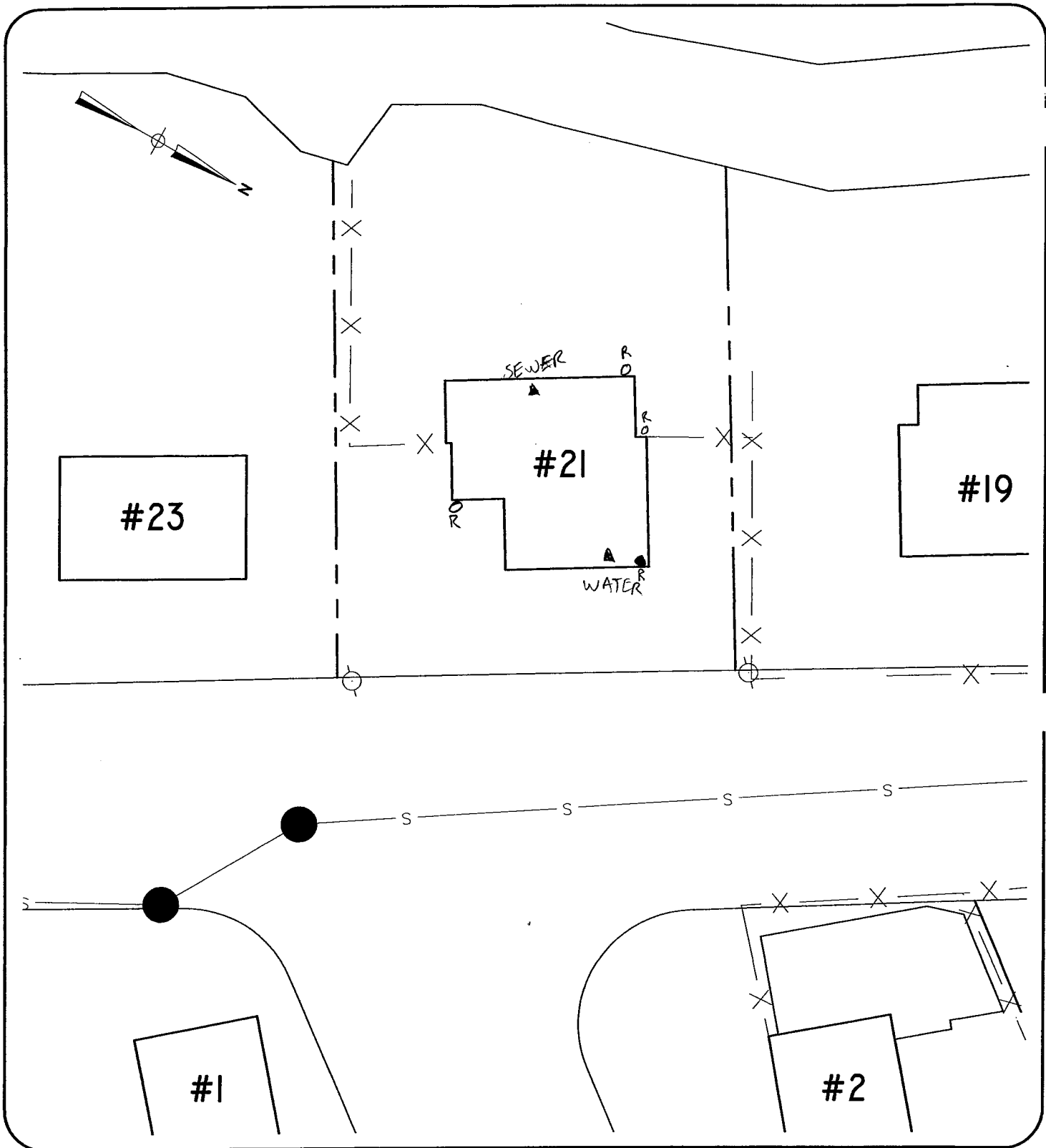
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #21
 BY#: RST/PPC

HOUSE SURVEY

T Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 23 Westside Dr Interviewer RST/ape

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 12:17 Unsuccessful, Left Flyer Not Admitted Other _____
 2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
 3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: Water in basement when river above banks. used sump pump to surface to combat problem

Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80.5"
 Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: portable pump to surface when needed by home owner / no sump pit.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Drain Filled with concrete.

Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

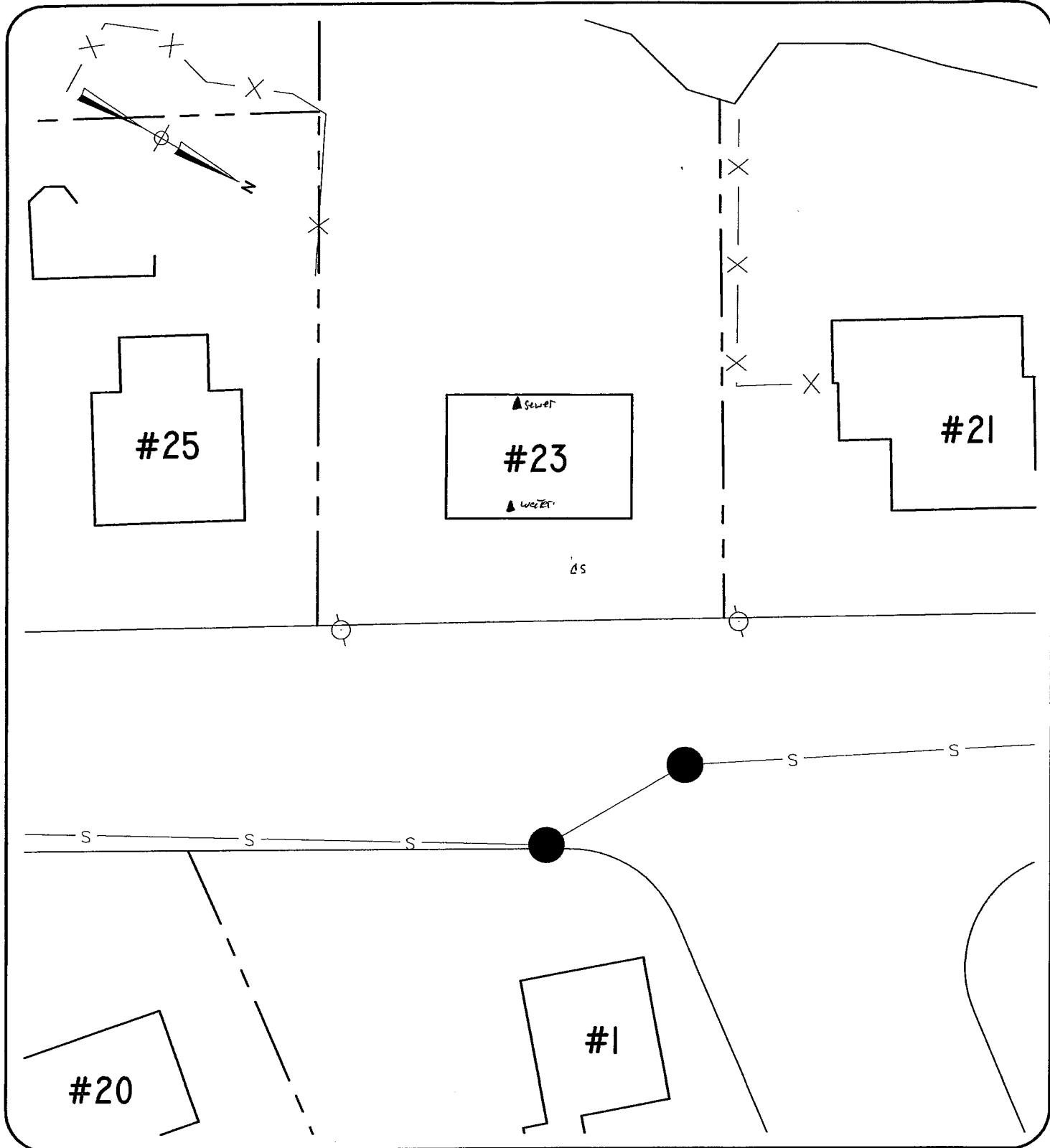
Cannot Locate Above Floor Level Distance from Sill 82" Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: curb stop located in walkway 5" above surface.

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09

STREET: WESTSIDE DRIVE

ADDRESS: #23

BY#: _____

HOUSE SURVEY

I/I Engineering Services
eter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 25 West side Dr. Interviewer RST/PPC
Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant
Initial Visit: Date 10-6-09 Time: 1337 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: used sump pump to discharge water out window to surface.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 78"

Above Floor Level - Distance From Invert to Sill 62" Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: owner states she discharges through window as needed.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

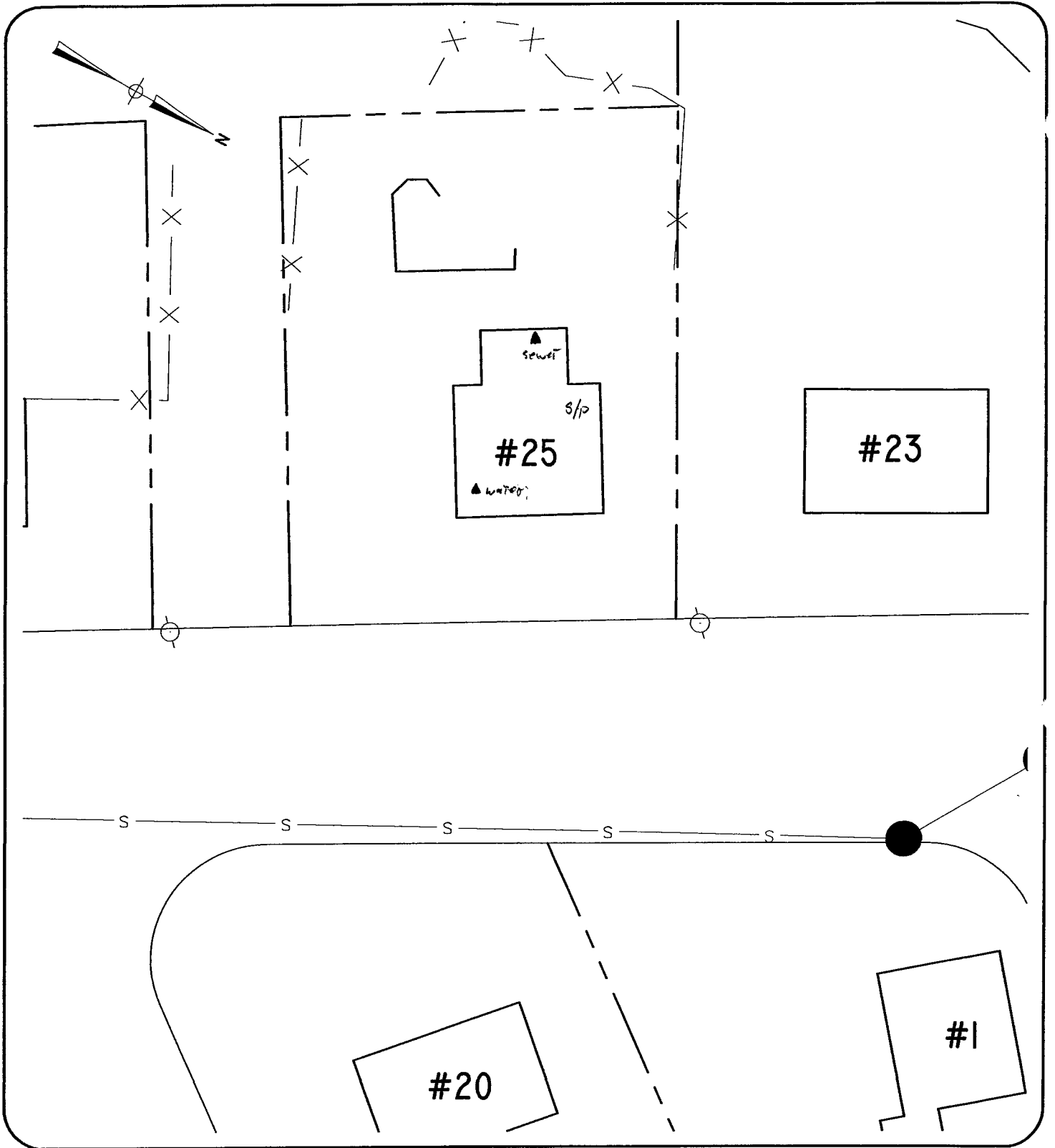
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill unknown. Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #25
 BY#: RSJ/ppc

HOUSE SURVEY

Engineering Services
eter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 27 Westside Dr. Interviewer Rsi/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1348 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level - Distance From Invert to Sill 78" Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other Copper

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: owner state he does not run sump pump but is plugged in.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 3

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

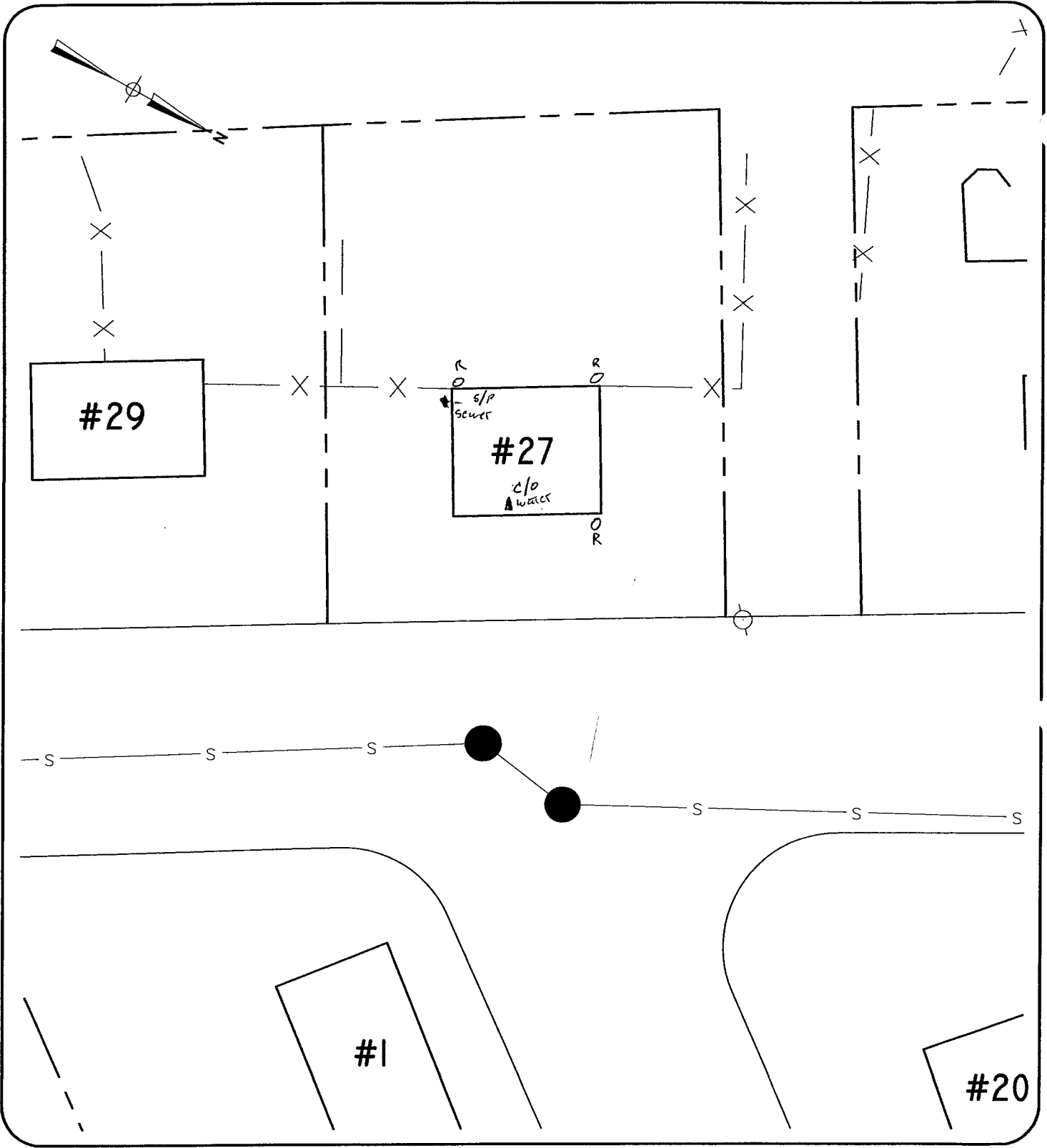
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | O ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-08
 STREET: WESTSIDE DRIVE
 ADDRESS: #27
 BY#: RST/PPC

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 29 west side dr Interviewer RST/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1404 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: pumped water to ground surface / Basement drain.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 84.5

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other copper

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

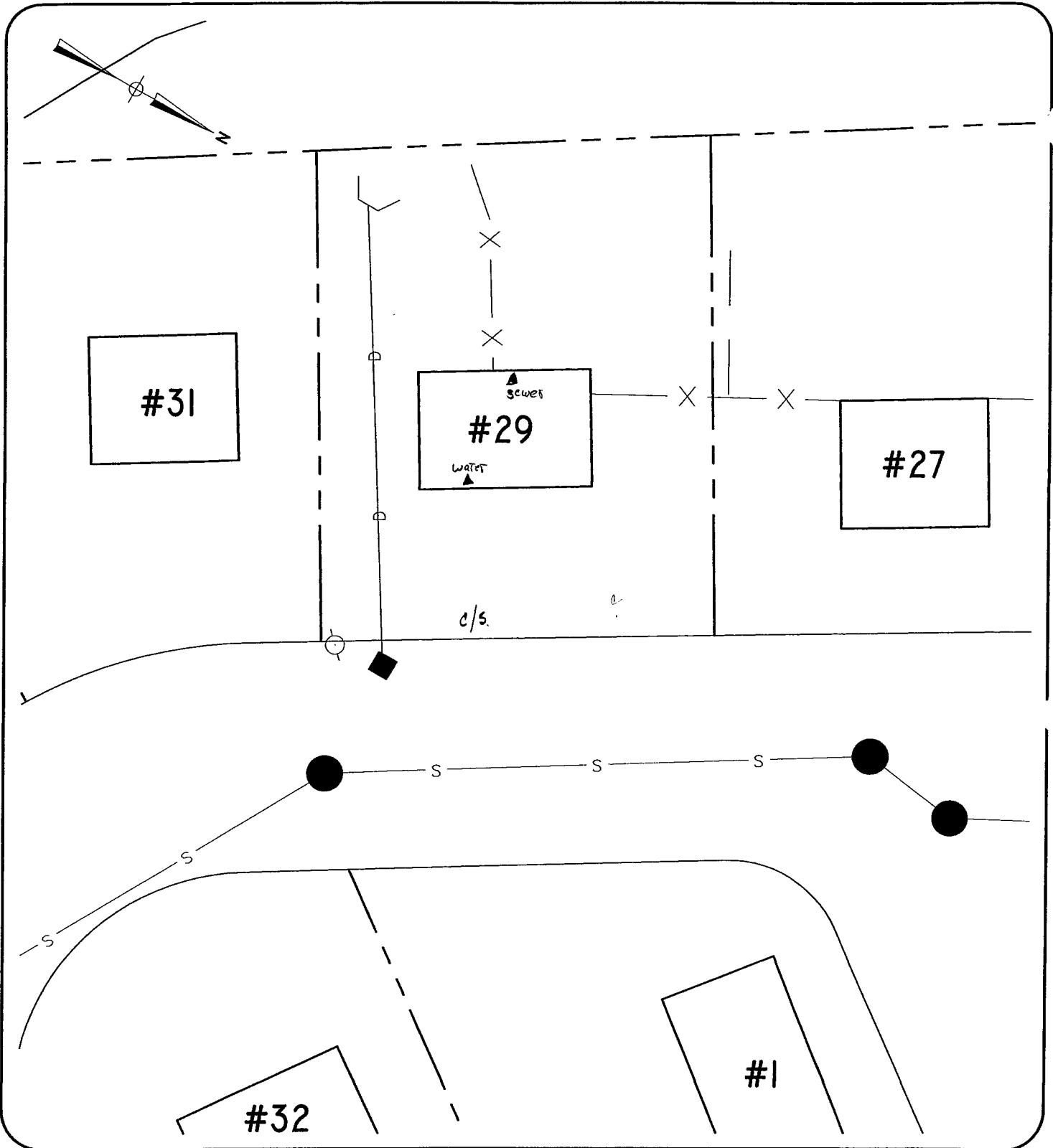
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #29
 BY#: RST/ppc

SCALE: 1"=30'

HOUSE SURVEY

UI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 31 Westside Dr Interviewer RST / ^{RM} / PPE / RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1412 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 12:30 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1039 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 83"

Above Floor Level – Distance From Invert to Sill 58" Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

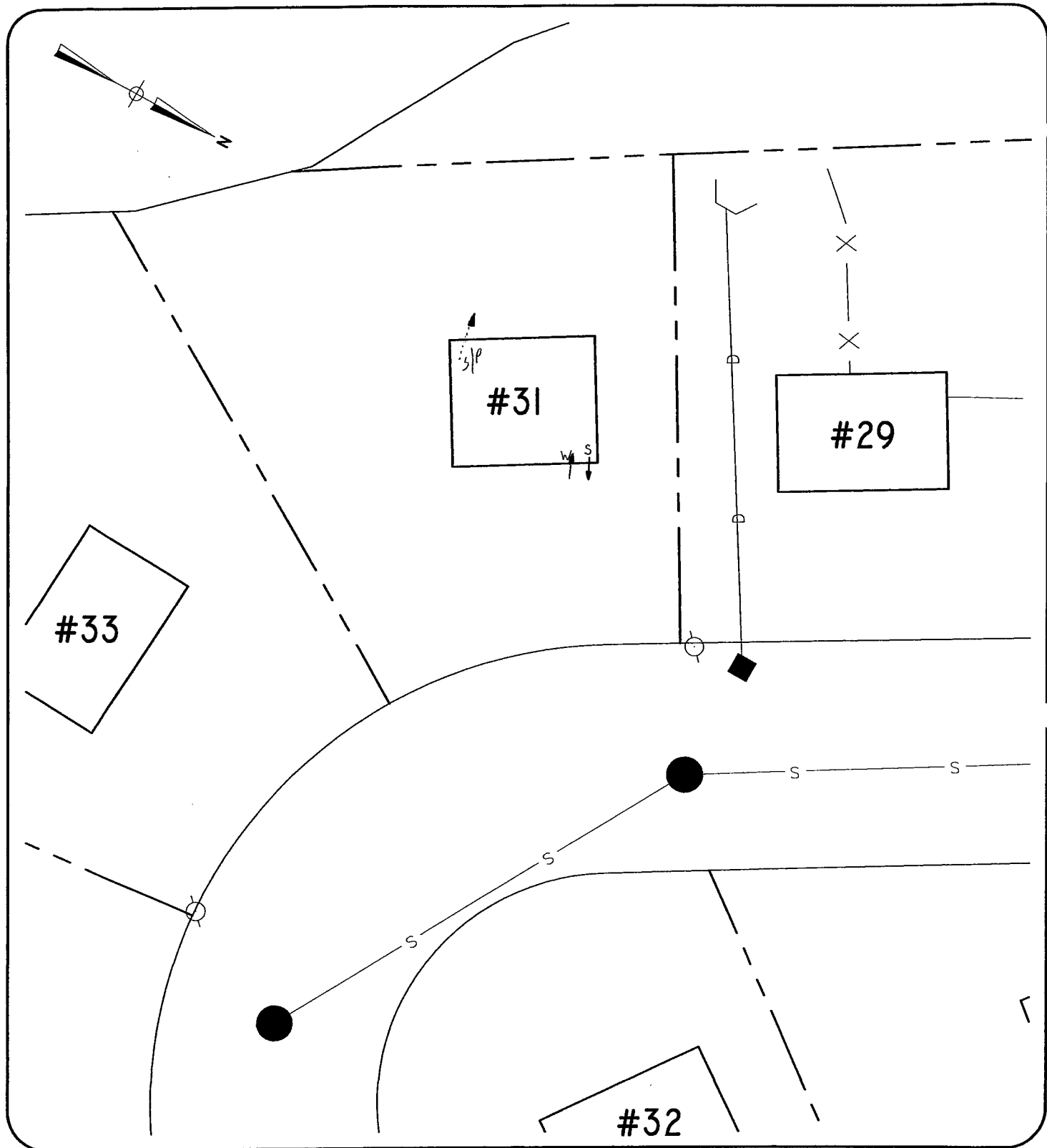
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #31
 BY#: RM

HOUSE SURVEY

AI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 32 Westside Dr Interviewer RST / JPL

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1422 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: sump pump

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 85.1"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: Sump discharges to back of house. (Surface)

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Cemented Drain

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

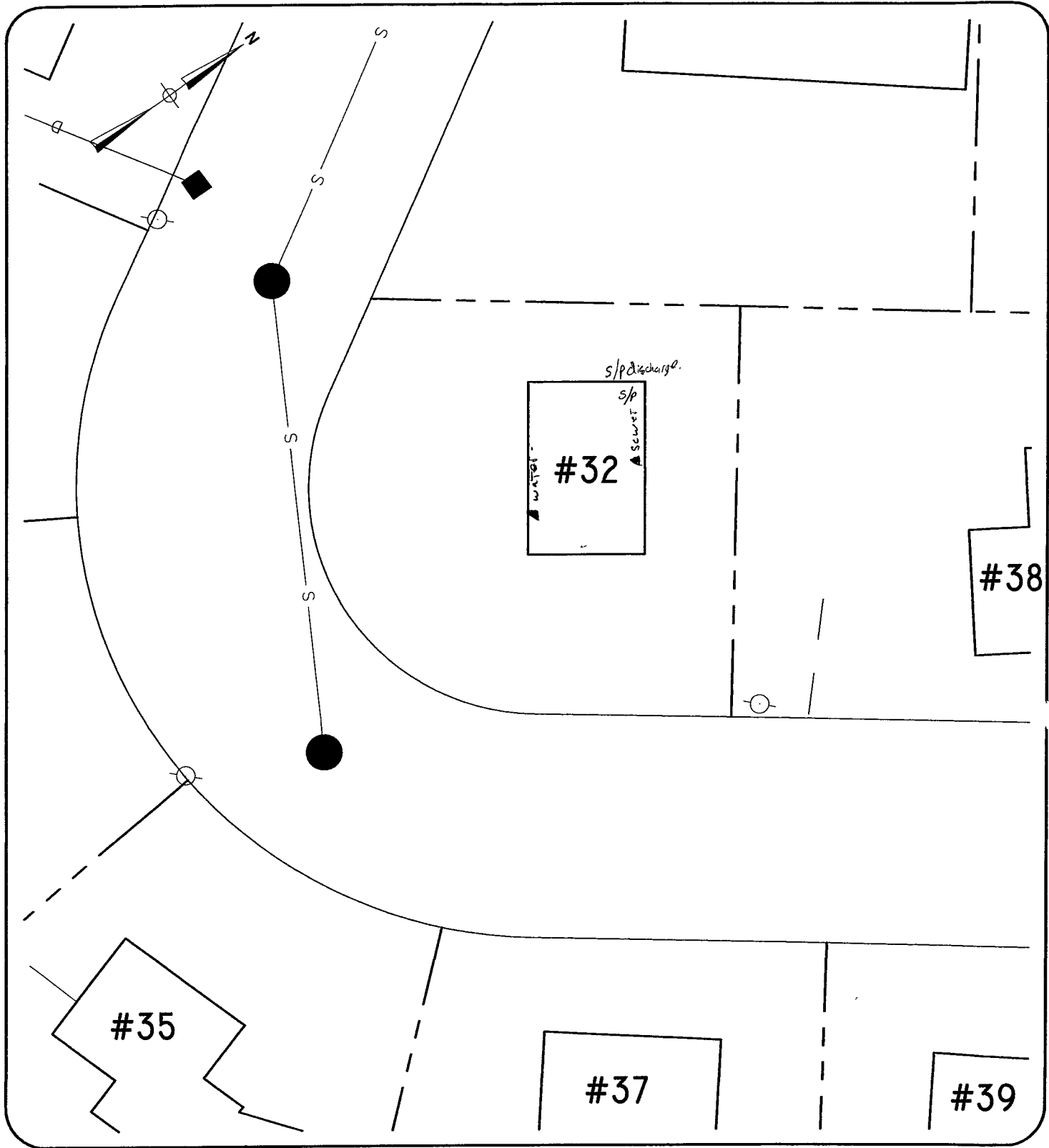
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-08
 STREET: _____
 WESTSIDE DRIVE
 ADDRESS: #32
 BY#: IST/RM

SCALE: 1"=30'

HOUSE SURVEY

AI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 33 Westside Dr Interviewer RST/jpe

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date <u>10-6-09</u>	Time: <u>1414</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2 nd Visit: Date _____	Time: _____	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3 rd Visit: Date _____	Time: _____	Unsuccessful <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: used sump to discharge to surface.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 84"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: portable sump discharge to surface

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: clean out is capped

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation Ø RL Into Ground Ø RL Onto Surface Ø

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

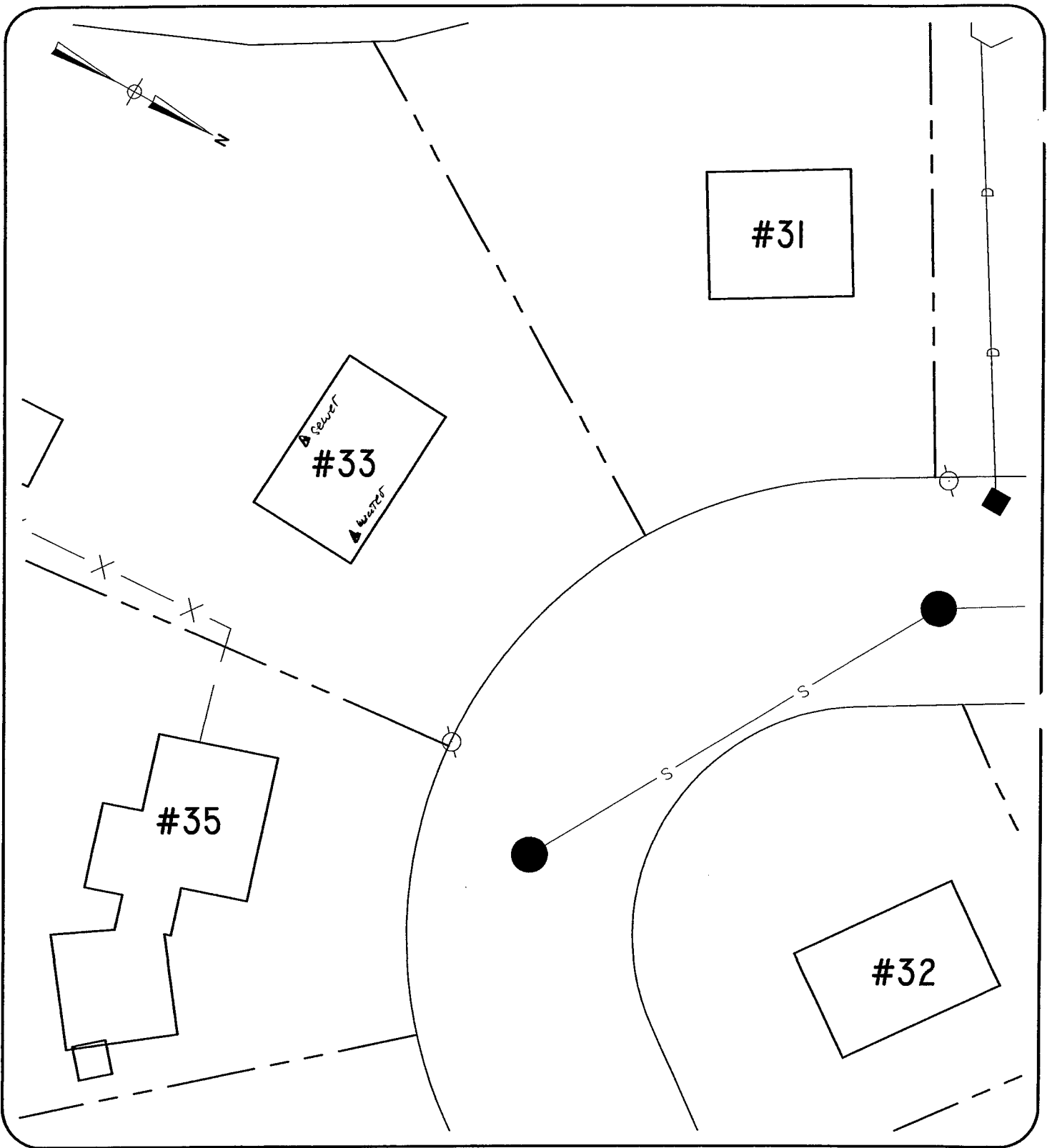
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-08
 STREET: WESTSIDE DRIVE
 ADDRESS: #33
 BY#: RSI/ppc

HOUSE SURVEY

VI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 35 Westside Dr Interviewer RSI/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1433 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Portable Sump

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81.5"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: Portable sump discharges to stairwell drain in back of house.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Clean out capped.

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

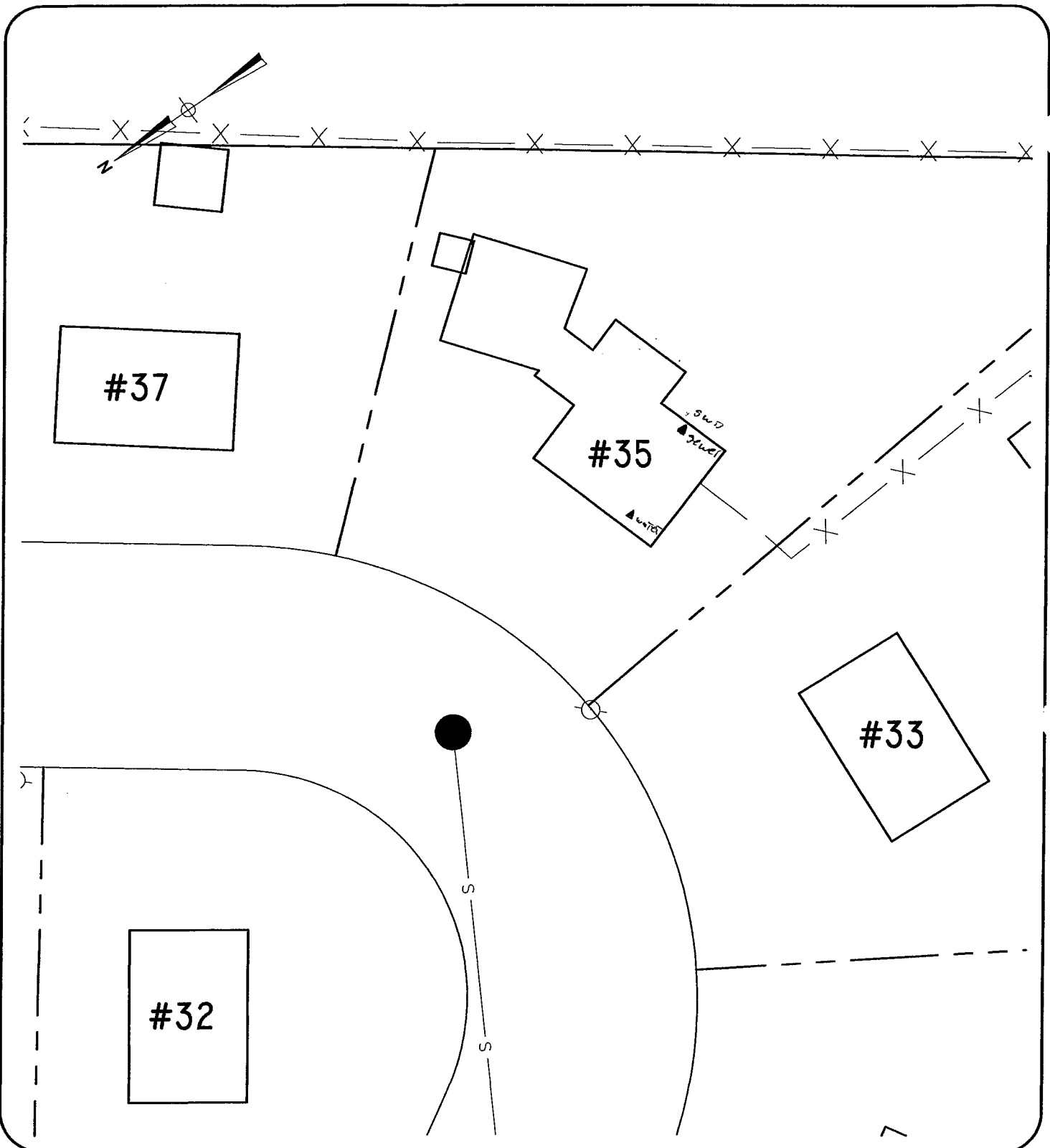
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09

STREET: WESTSIDE DRIVE

ADDRESS: #35

BY#: RGT/RM.

SCALE: 1"=30'

HOUSE SURVEY

VI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 38 Westside Dr. Interviewer RST/PPC

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1453 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: sump pump got rid of water.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: owner states it pumps to surface via a yard drain like system.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: clean out capped.

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

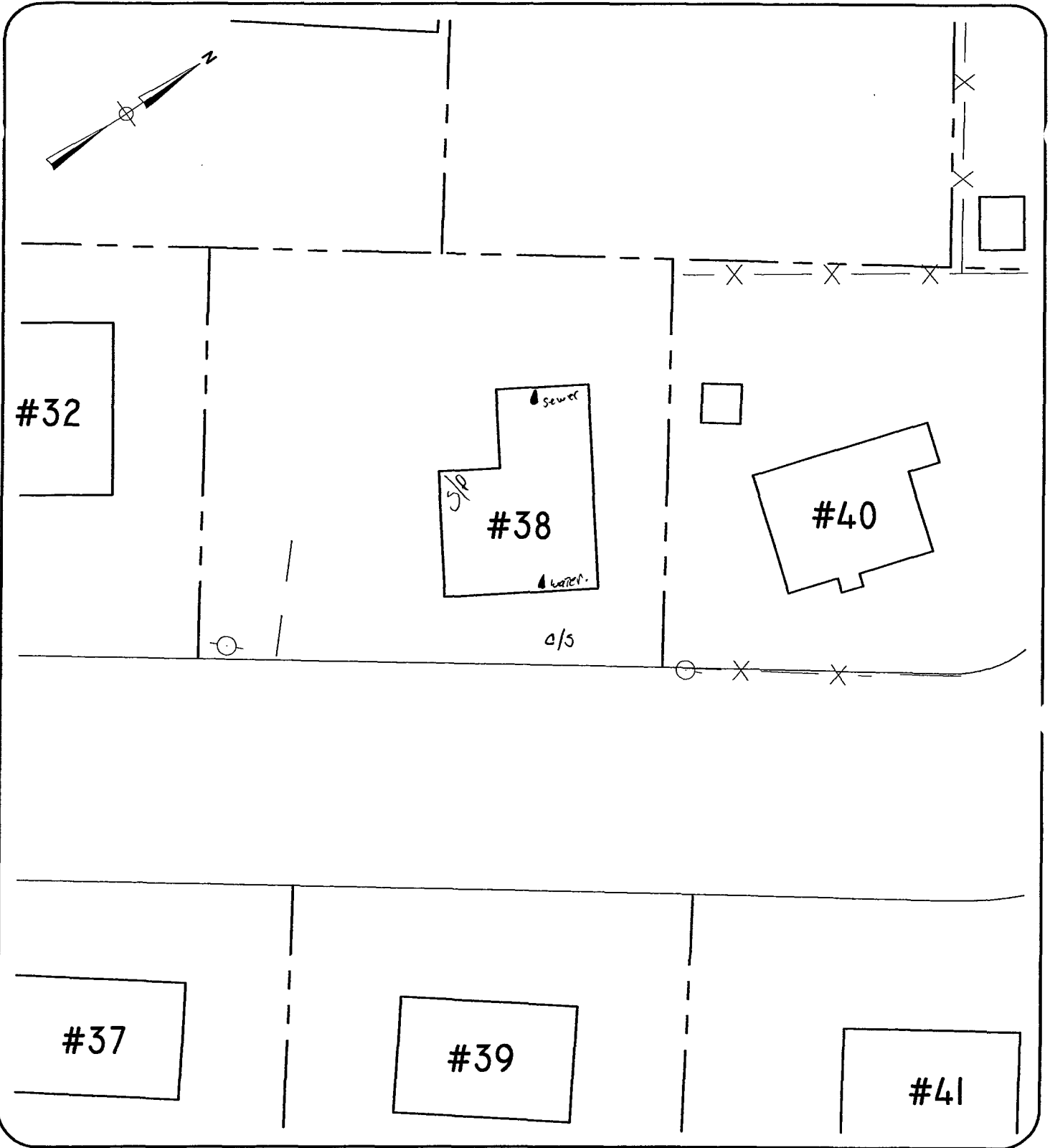
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-08
 STREET: WESTSIDE DRIVE
 ADDRESS: #38
 BY#: RJ/Rm

HOUSE SURVEY

T Engineering Services
Water, NH

Flow Assessment Services
Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 39 west side Dr Interviewer RST/ppc

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 1502 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 84.5

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

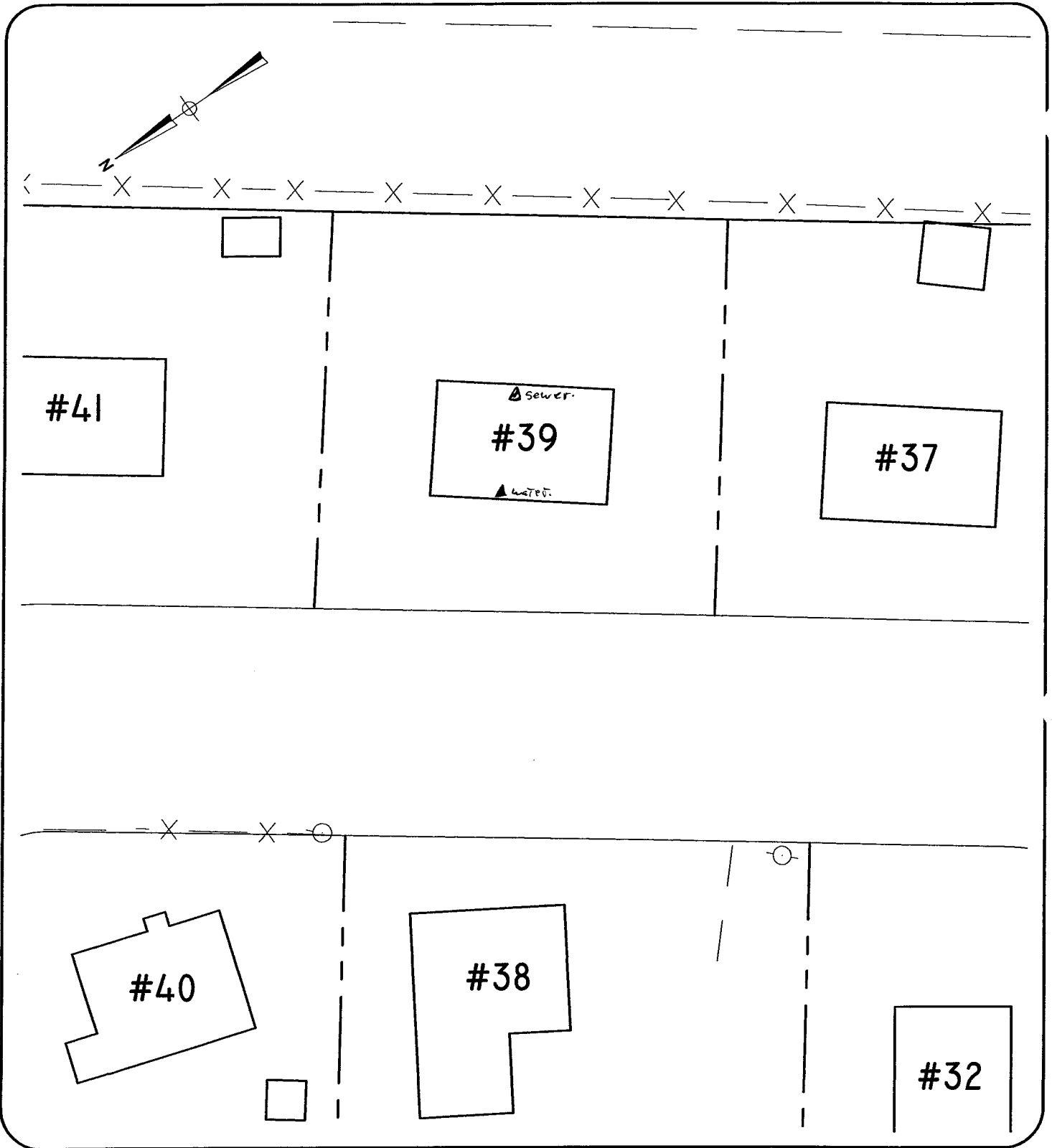
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | | OUTLET | |
|------------|--------------------------|--------|-------------------|
| d | - YARD OR DRIVEWAY DRAIN | ○ | ONTO SURFACE |
| x | - DOWNSPOUT | ● | INTO GROUND |
| r | - ROOF LEADER | ⊙ | ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #39
 BY#: RST/RM

SCALE: 1"=30'

HOUSE SURVEY

Engineering Services
ter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 40 Westside Dr Interviewer RST/ppc/RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 15:07 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 12:40 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 10:27 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: installed sump pump to take care of problem

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: capped clean out

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

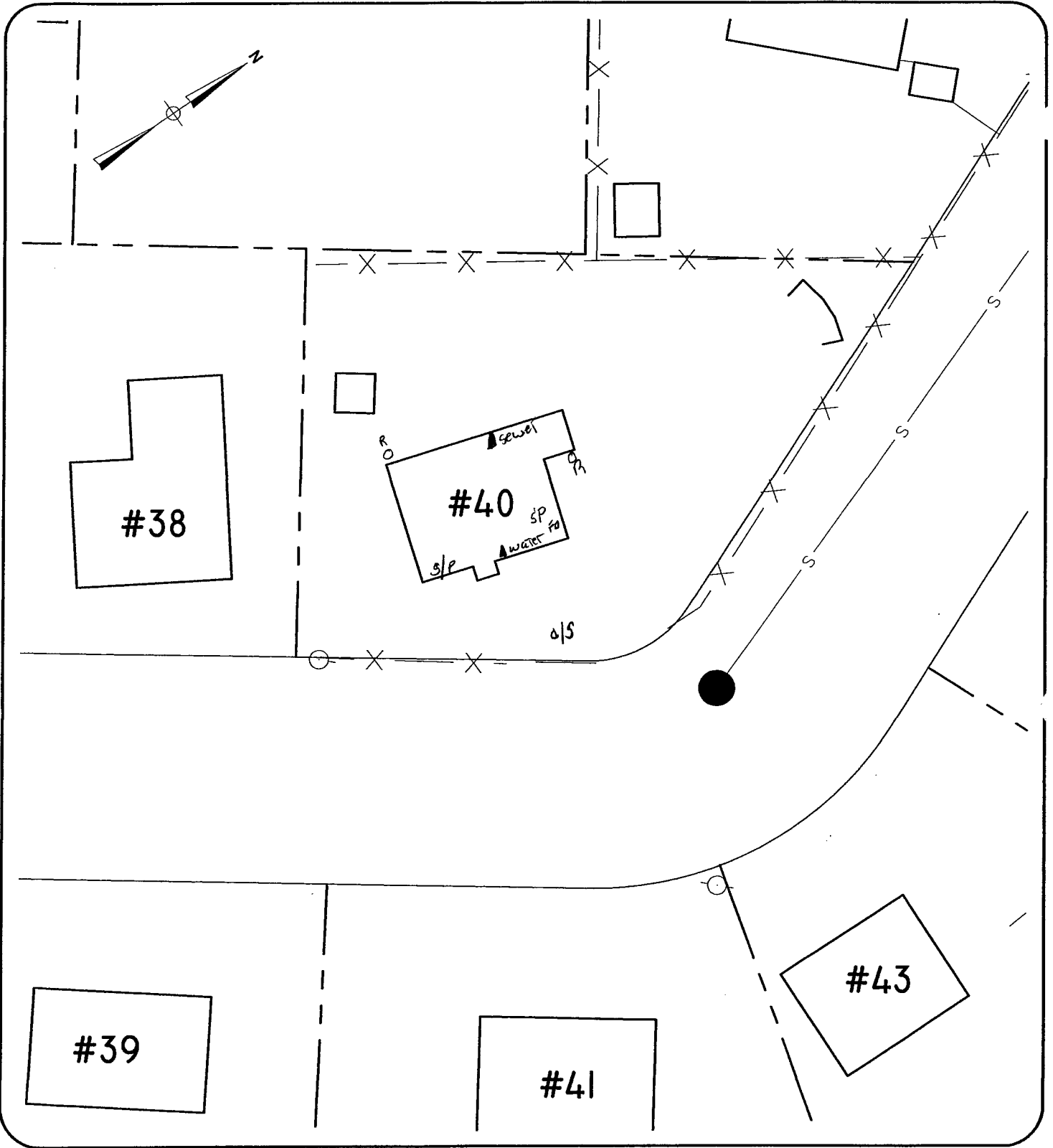
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-8-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #40
 BY#: RM

SCALE: 1"=30'

OWNER STATES SHE HAS NO TIME - RST
today

HOUSE SURVEY

UI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 41 West Side Dr Interviewer RST/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 15:12 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 12:30 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: THEY USE 4 PORTABLE SUMP PUMPS DISCHARGED OUT BACK YARD

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: PORTABLE PUMPS

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

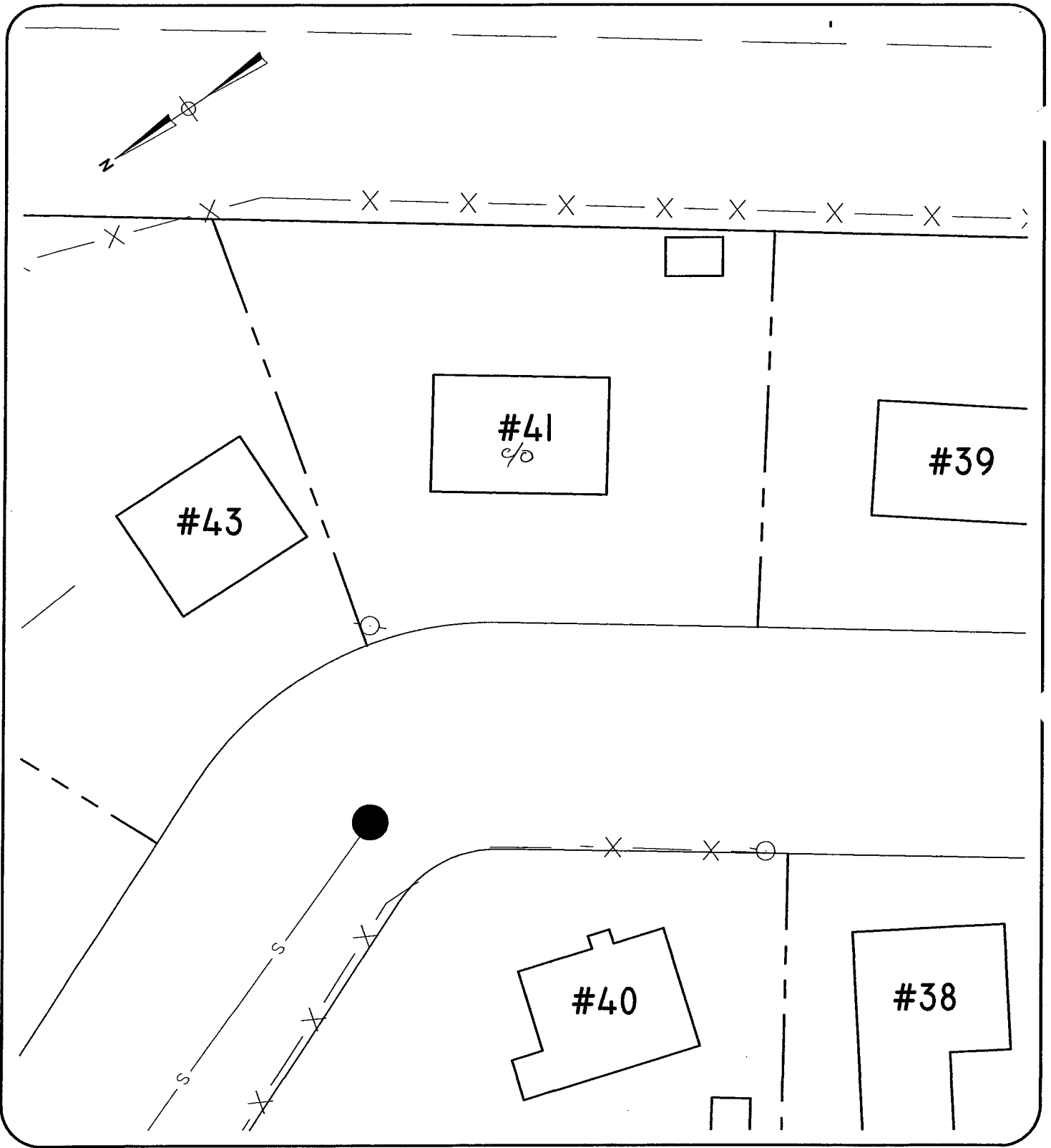
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: FINISHED BASEMENT

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-8-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #41
 BY#: PM

SCALE: 1"=30'

HOUSE SURVEY

**I/I Engineering Services
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Gerald Roberson.

Lot # _____ Tax Map # _____ Sub System _____ Street # 43 westside Dr. Interviewer RM-RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 15:15 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

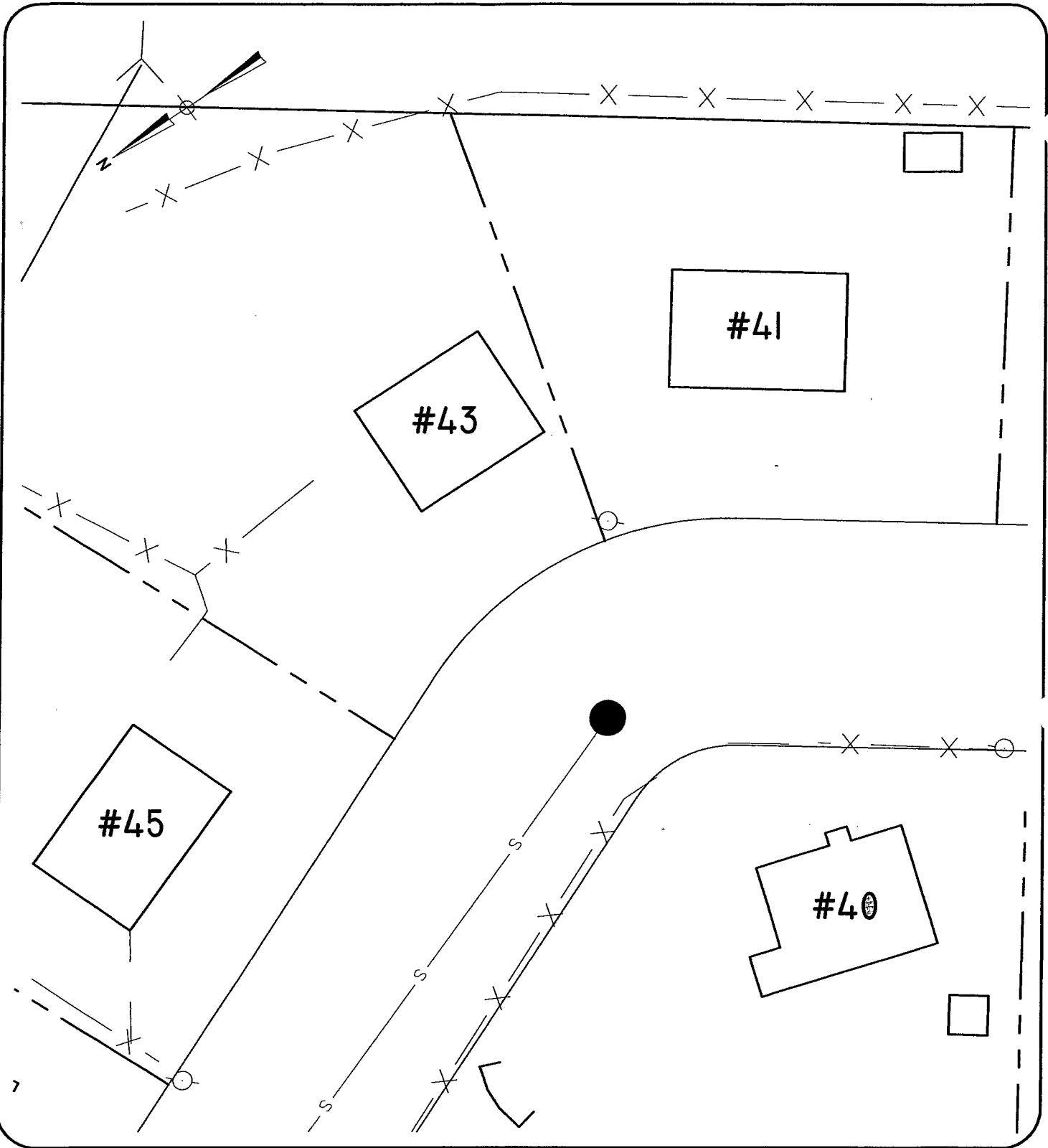
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: DENIED ACCESS BY HOMEOWNER

NOTE – SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

<u>DRAIN TYPE</u>	<u>OUTLET</u>
d - YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x - DOWNSPOUT	● INTO GROUND
r - ROOF LEADER	⊙ ENTERS FOUNDATION

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #43
 BY#: _____

HOUSE SURVEY

W/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 45 WESTSIDE DR. Interviewer RM-RT/RGT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 15:22 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 12:45 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1025 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

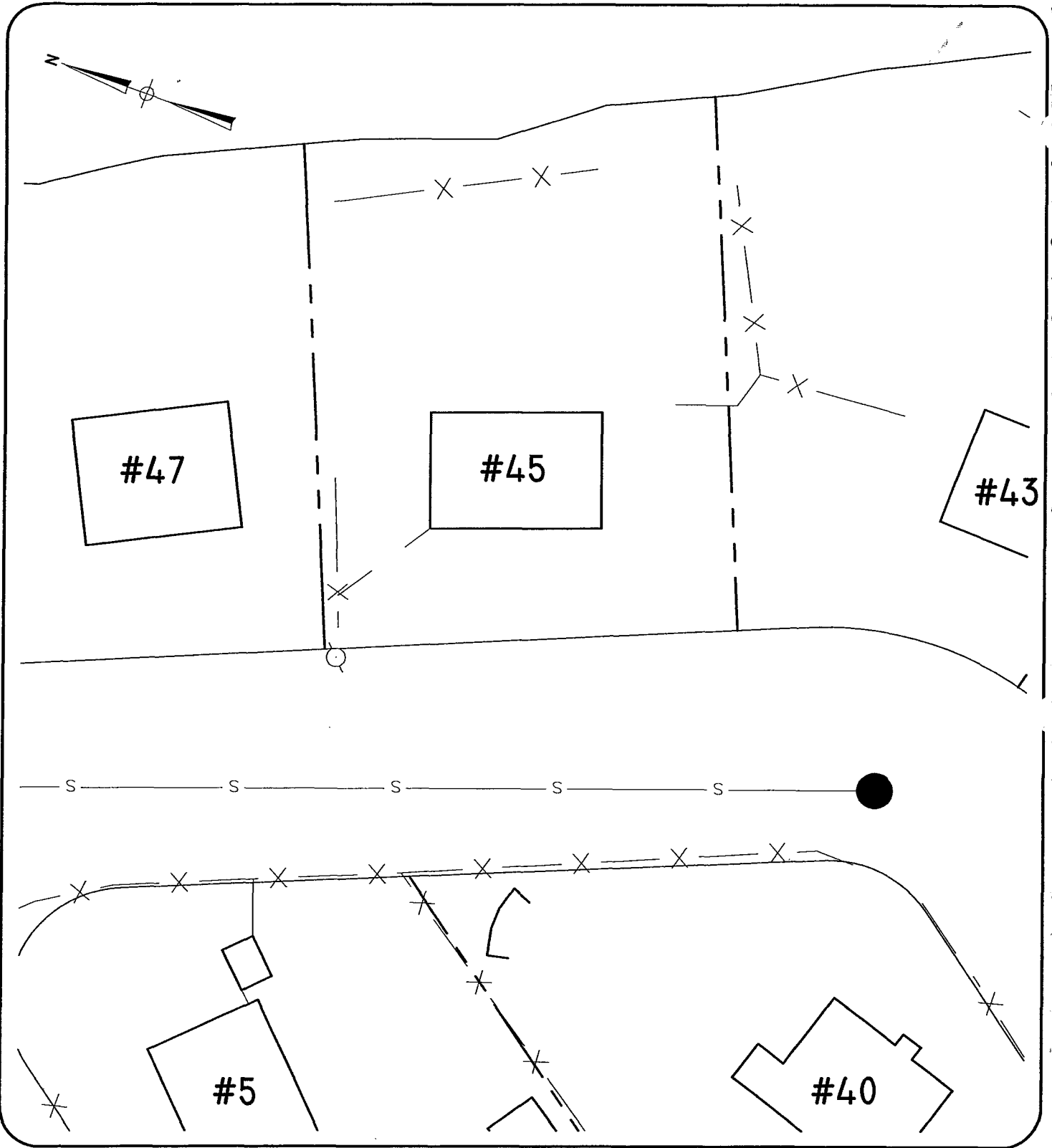
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #45
 BY#: RM-RT

HOUSE SURVEY

T Engineering Services

Bedford, NH

Flow Assessment Services

Bedford, NH

Plot # _____ Tax Map # _____ Sub System _____ Street # 47 WESTSIDE DR Interviewer RM-RT-RST/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

1st Visit: Date <u>10-6-09</u> Time: <u>15:20</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2nd Visit: Date <u>10-8-09</u> Time: <u>12:47</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3rd Visit: Date <u>10-12-09</u> Time: <u>10:23</u>	Unsuccessful	Not Admitted <input type="checkbox"/>	Other _____
<u>10-13-09</u>	<u>17:30</u>		

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 84"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

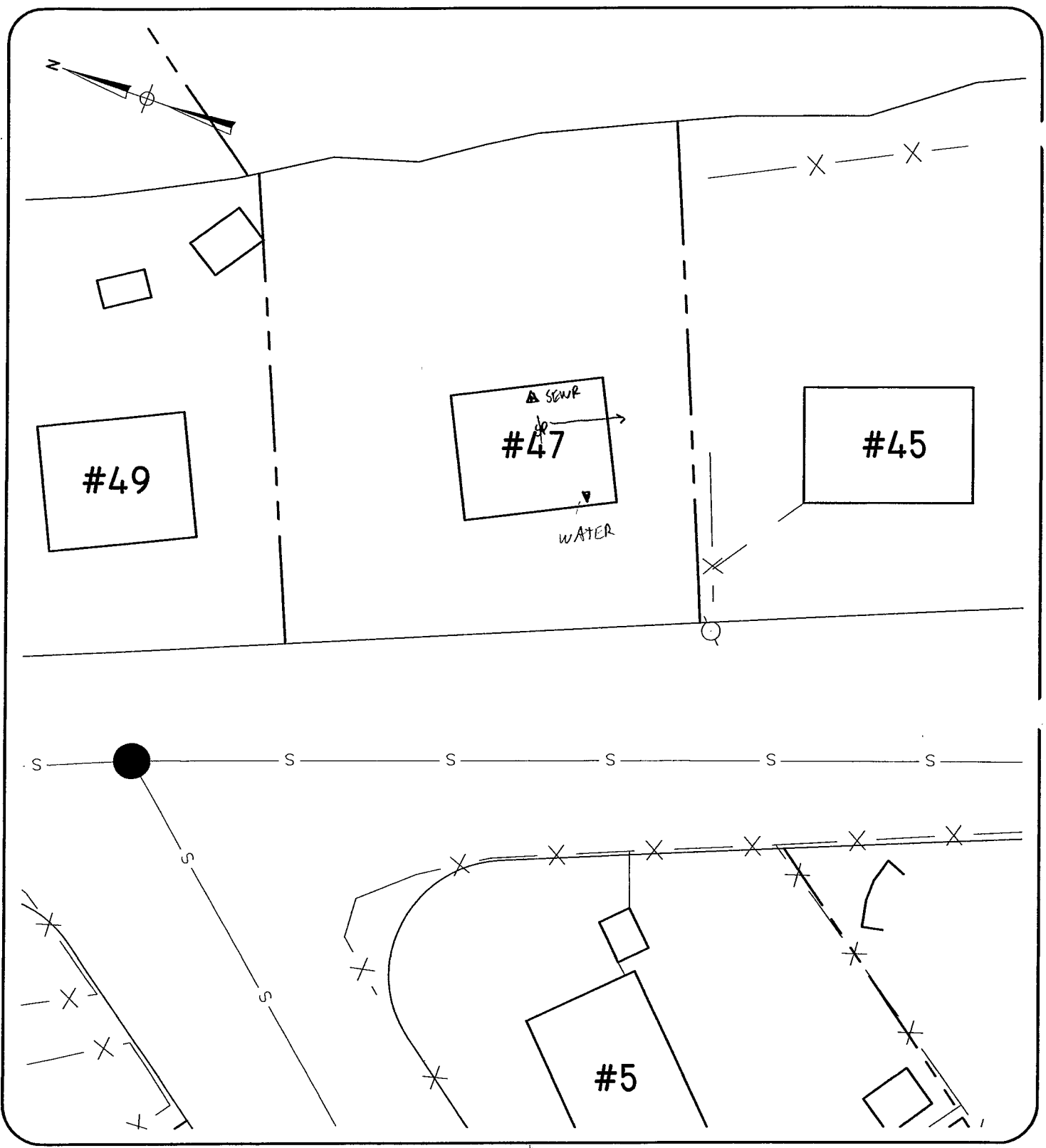
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | <u>DRAIN TYPE</u> | <u>OUTLET</u> |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #47
 BY#: RM-RT

SCALE: 1"=30'

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 49 WESTSIDE DR Interviewer RM-RJ
Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant
Initial Visit: Date 10-6-09 Time: 15:23 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 83"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

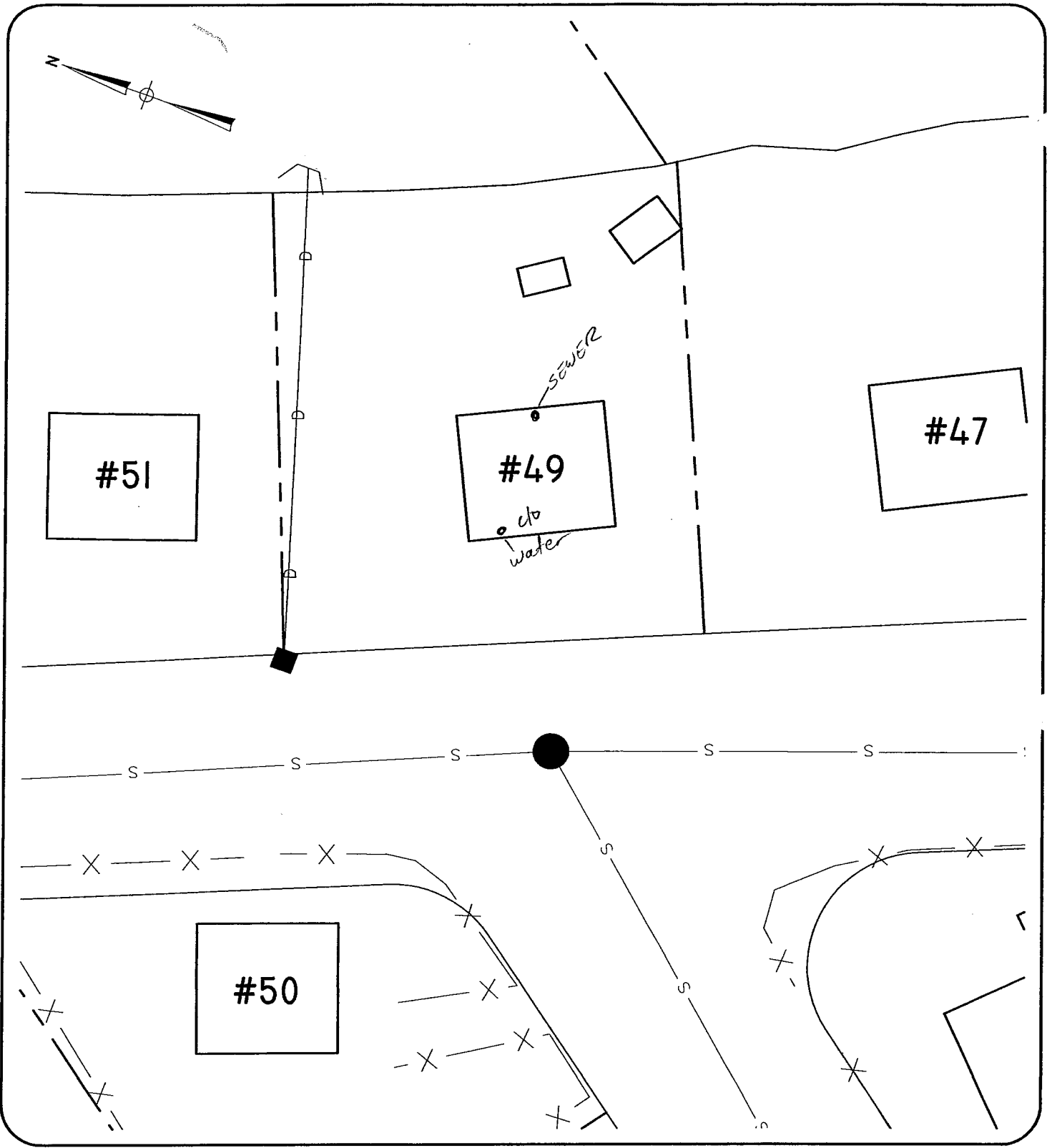
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK.

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | <u>DRAIN TYPE</u> | | <u>OUTLET</u> | |
|-------------------|--------------------------|---------------|-------------------|
| d | - YARD OR DRIVEWAY DRAIN | ○ | ONTO SURFACE |
| x | - DOWNSPOUT | ● | INTO GROUND |
| r | - ROOF LEADER | ⊙ | ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #49
 BY#: RM-RT

HOUSE SURVEY

J Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 50 WESTSIDE DR Interviewer RM-RT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 15:35 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 83'

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

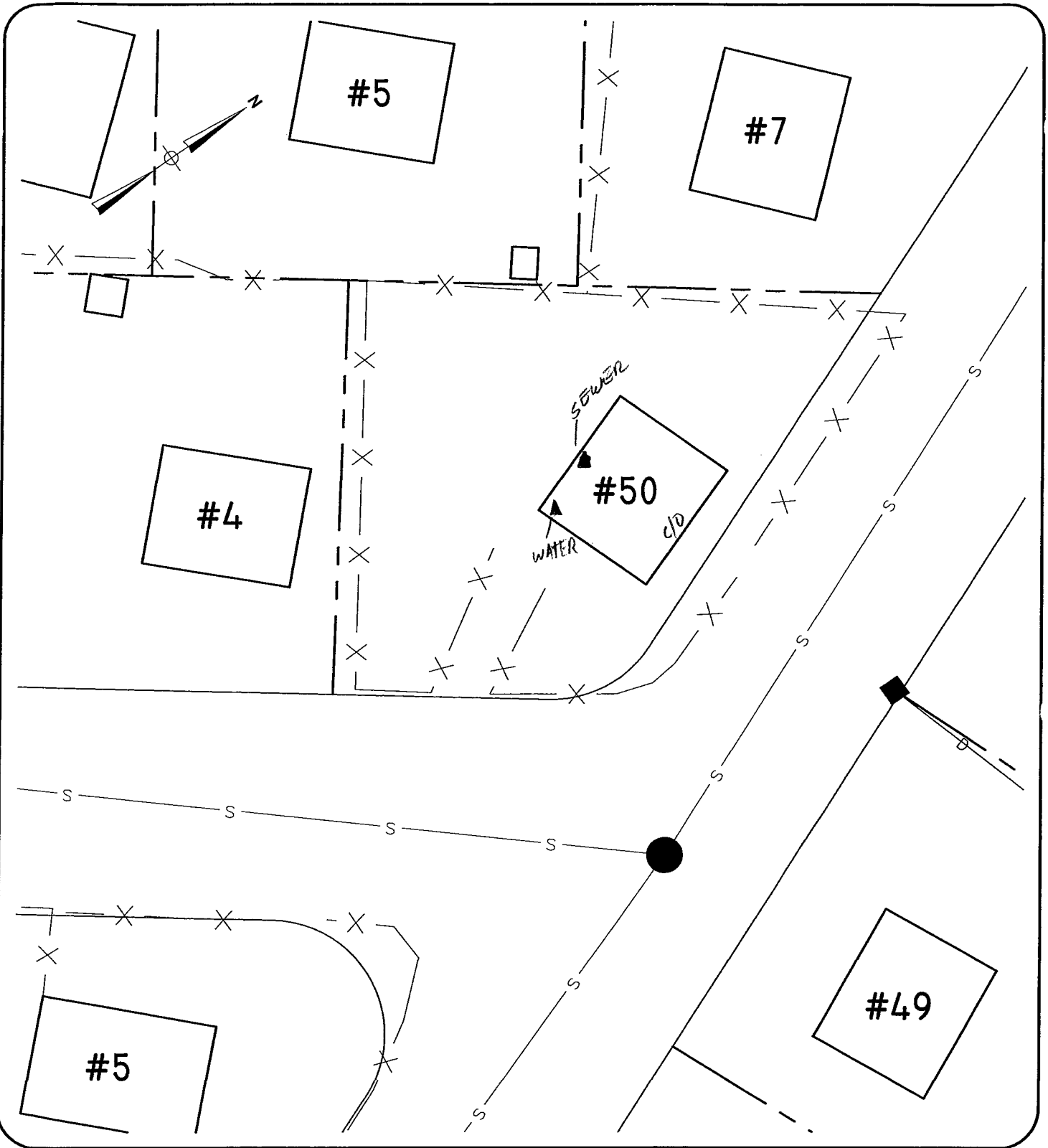
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #50
 BY#: RM RT

SCALE: 1"=30'

HOUSE SURVEY

**I/I Engineering Services
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 51 WESTSIDE DR Interviewer RM-RT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 15:50 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

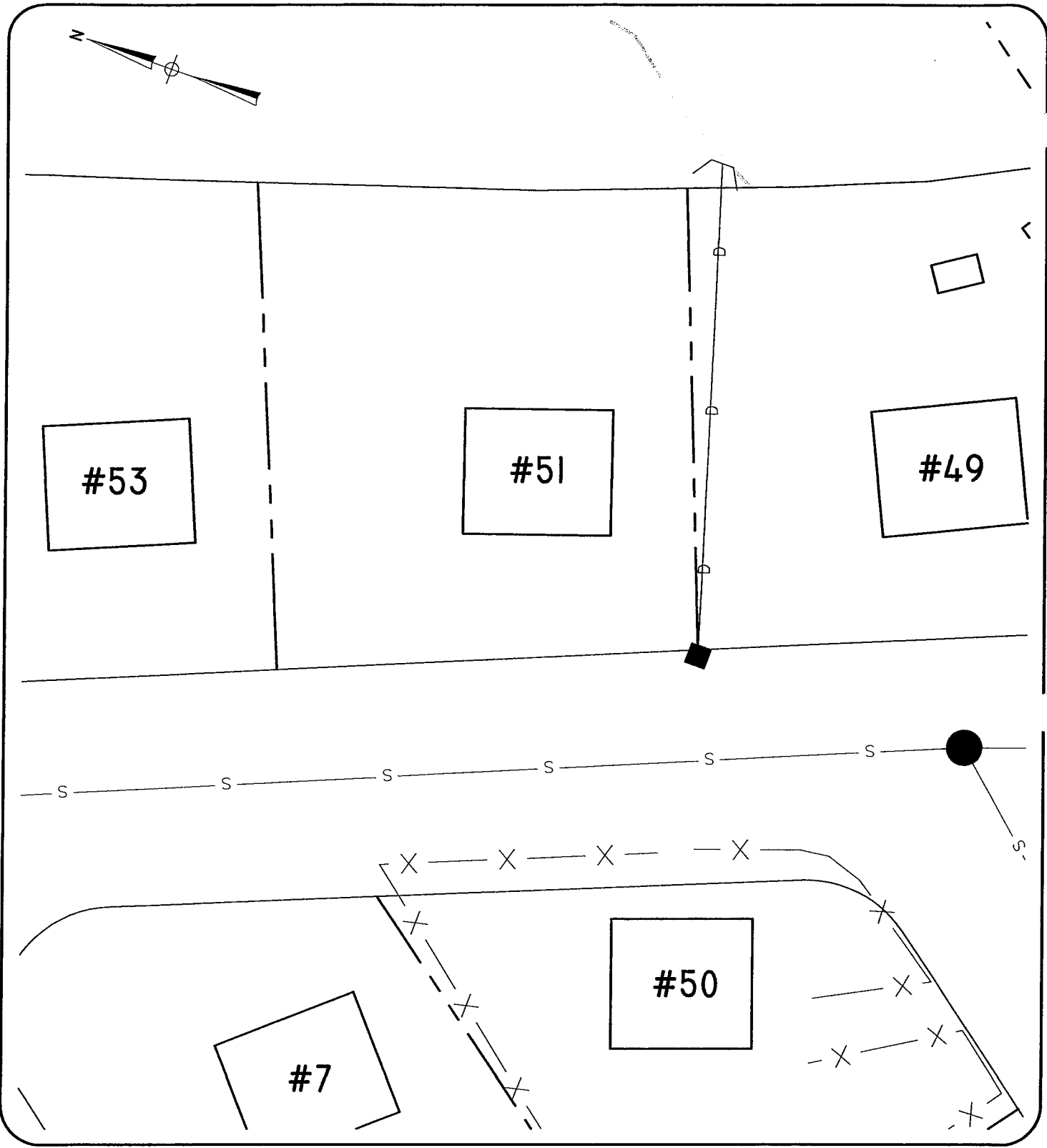
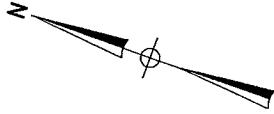
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK



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- SCHEMATIC INFORMATION CHECKLIST**
- WATER SERVICE _____
 - SEWER SERVICE _____
 - CURB STOP _____
 - WATER METER _____
 - SUMP PUMP _____
 - DRAIN LINE _____
 - CLEAN OUTS _____
 - UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #51
 BY#: RM

HOUSE SURVEY

UI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 53 WESTSIDE DR Interviewer RM-RT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 15:52 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 12:50 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: SHOP VAC IS USED TO REMOVE WATER

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 78"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

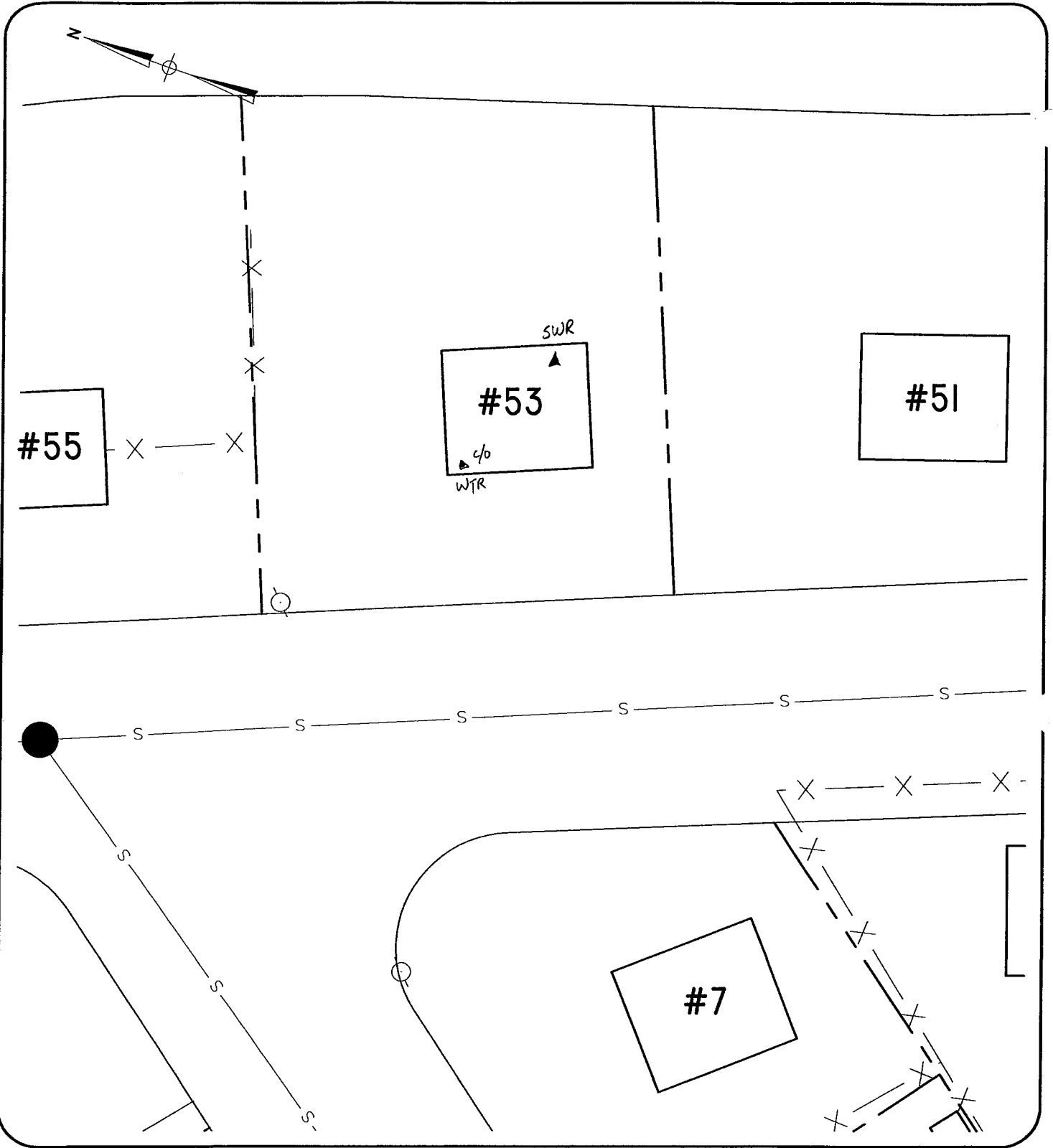
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #53
 BY#: RM-RJ

HOUSE SURVEY

J Engineering Services
Porter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 55 WESTSIDE DR Interviewer RM-RT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 15:54 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 12:57 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 10:21 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation ~~0~~ RL Into Ground ~~0~~ RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

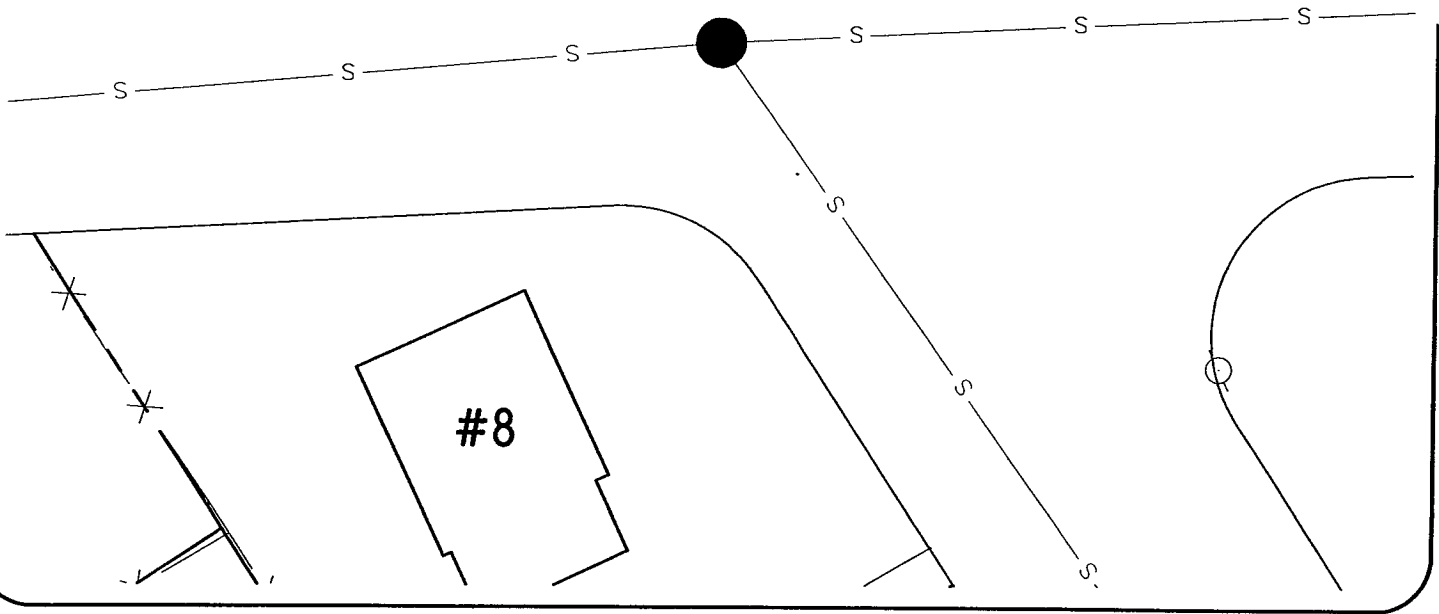
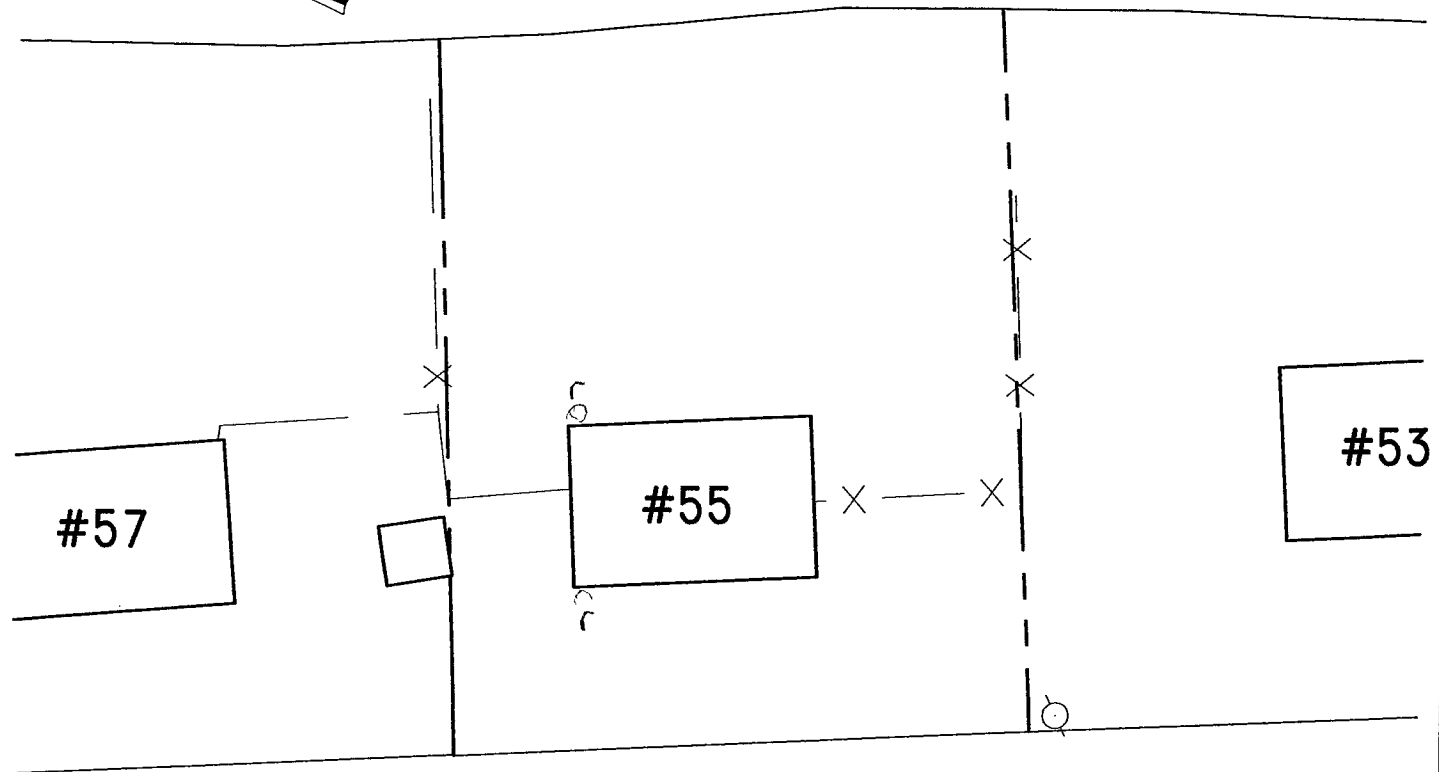
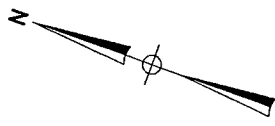
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #55
 BY#: RM-RJ

HOUSE SURVEY

Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 57 WESTSIDE DR Interviewer RM-RT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 16:09 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

3. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

4. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

6. Water Service Information:

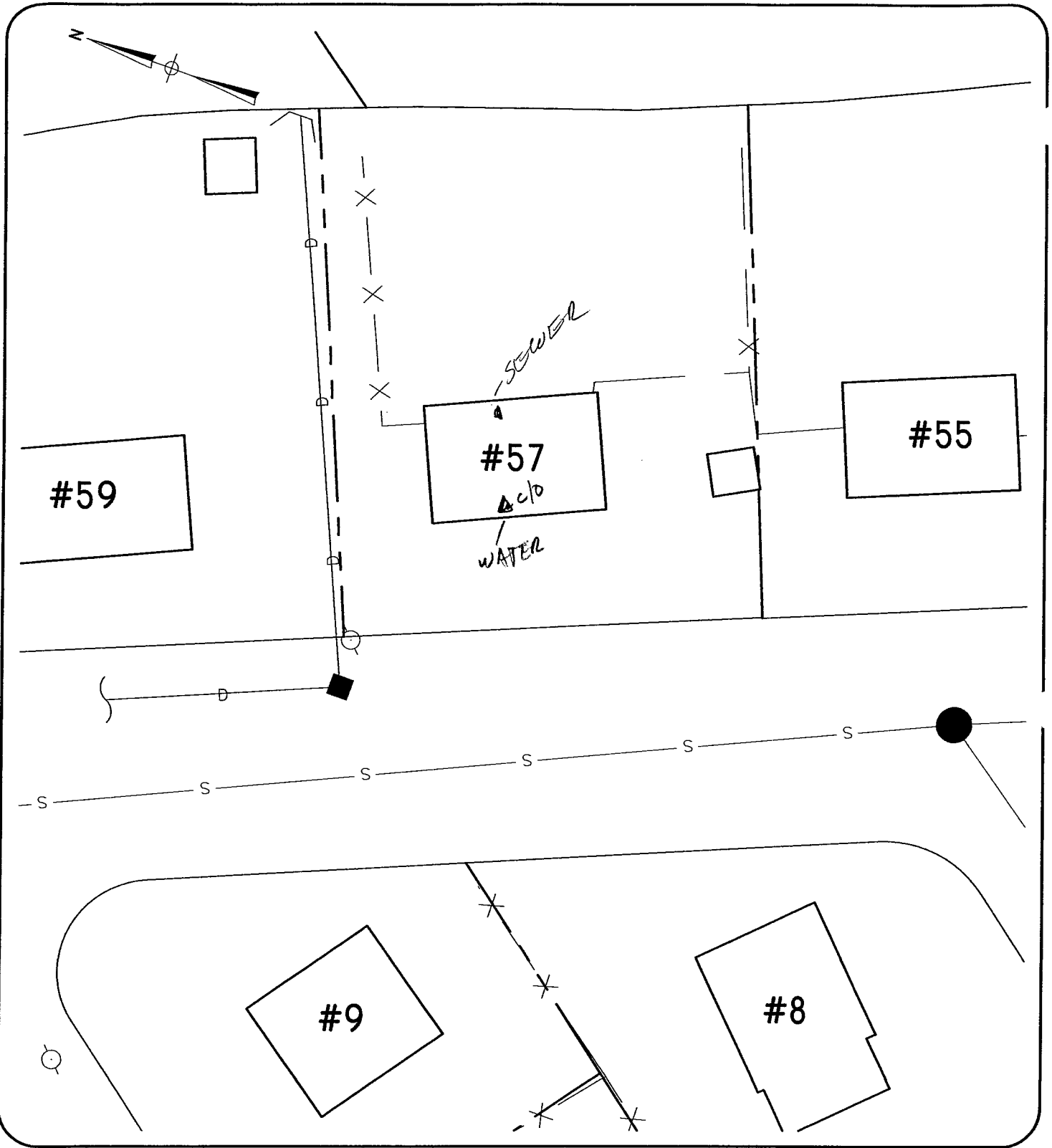
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #57
 BY#: RM-PT

HOUSE SURVEY

I/I Engineering Services
Manchester, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 59 WESTSIDE DR Interviewer RM-RJ
Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant
Initial Visit: Date 10-6-09 Time: 16:17 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 83"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 2 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

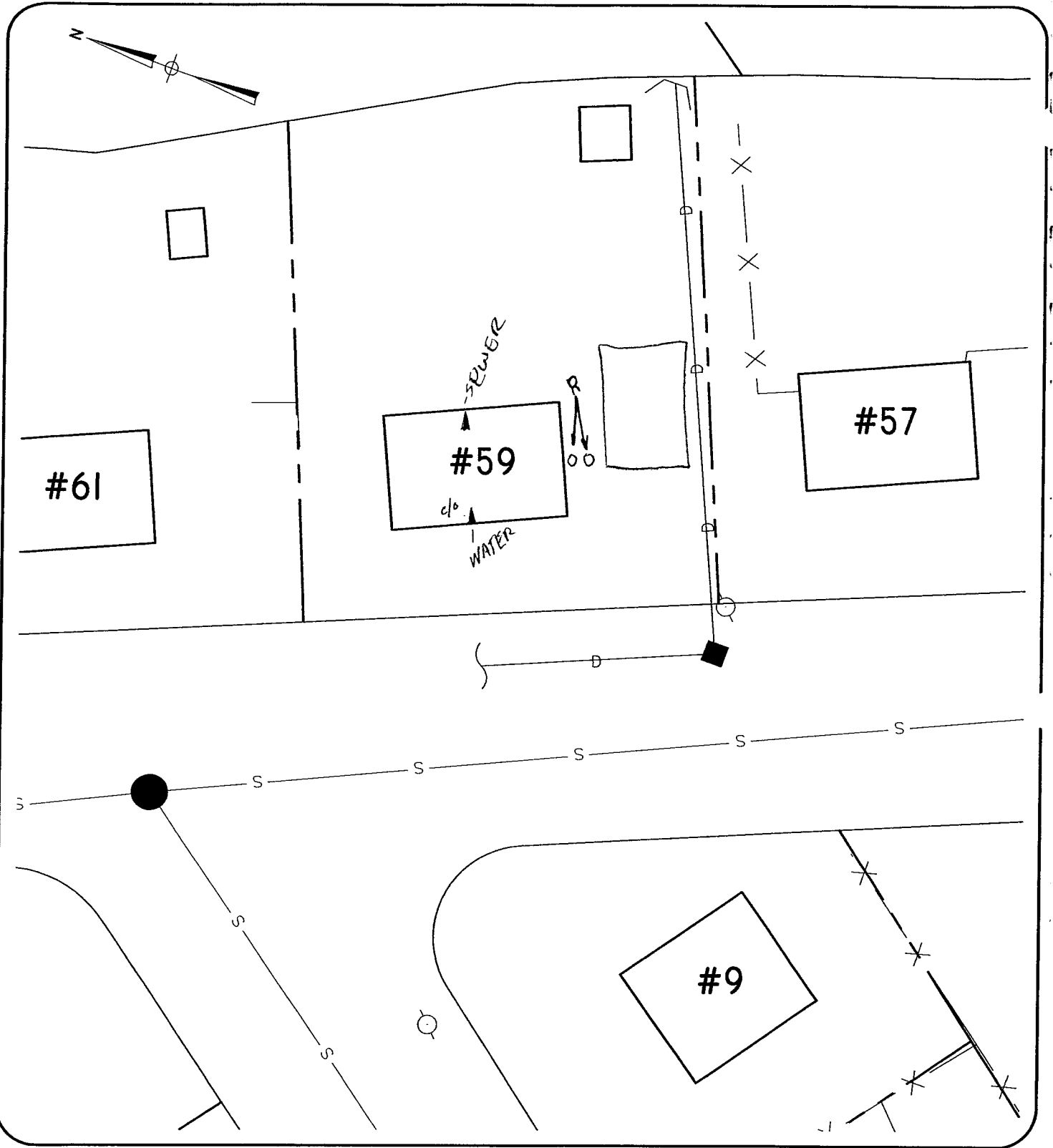
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #59
 BY#: RM-RT

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 61 WESTSIDE DR Interviewer RM-RT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 16:20 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 12:55 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 10:13 Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 86"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Capped clean out

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

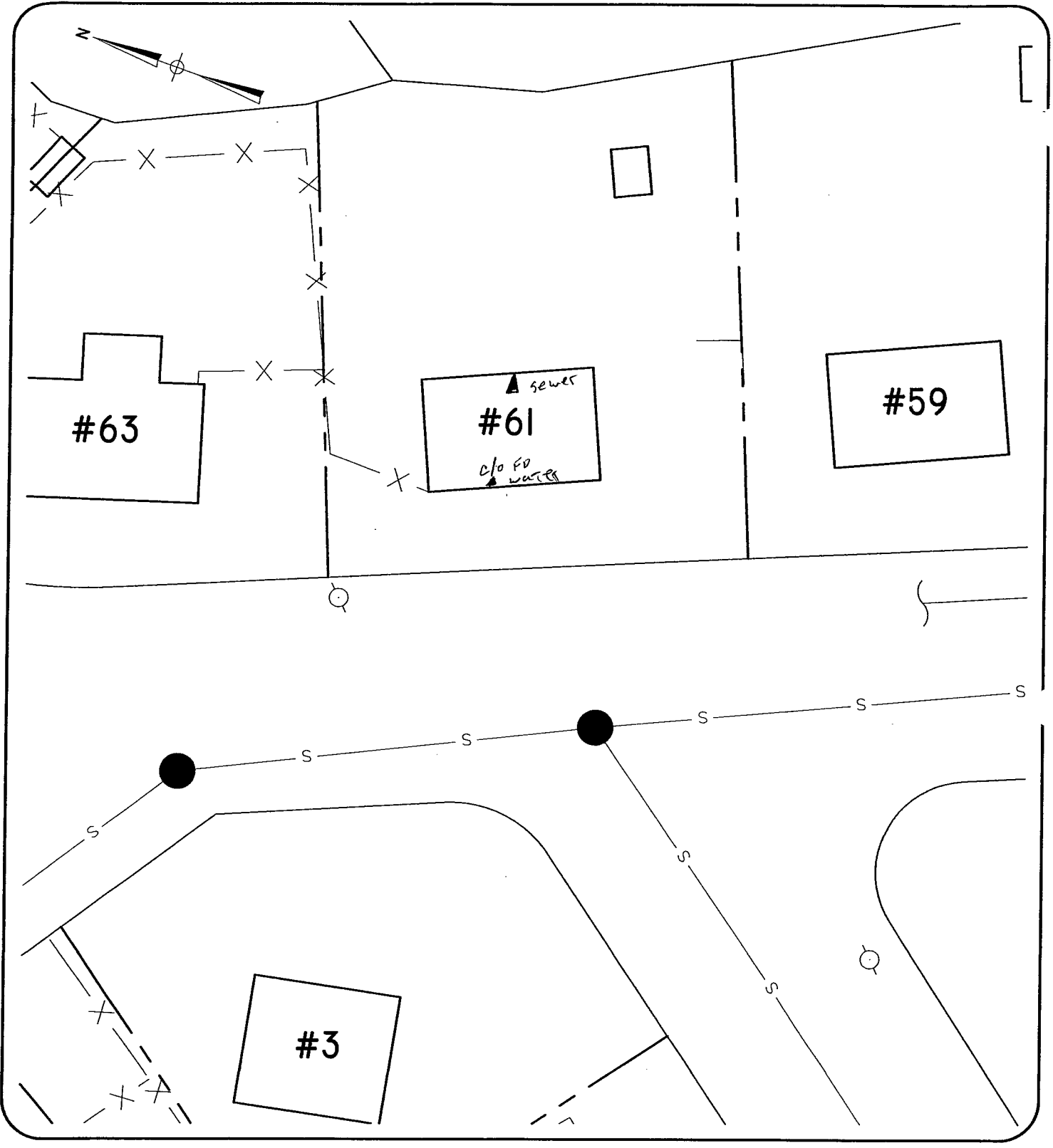
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #61
 BY#: RM-RT

HOUSE SURVEY

W Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 63 WESTSIDE DR Interviewer RM-RT

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-6-09 Time: 16:27 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 12:57 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date 10-12-09 Time: 1000 Unsuccessful Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 3

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

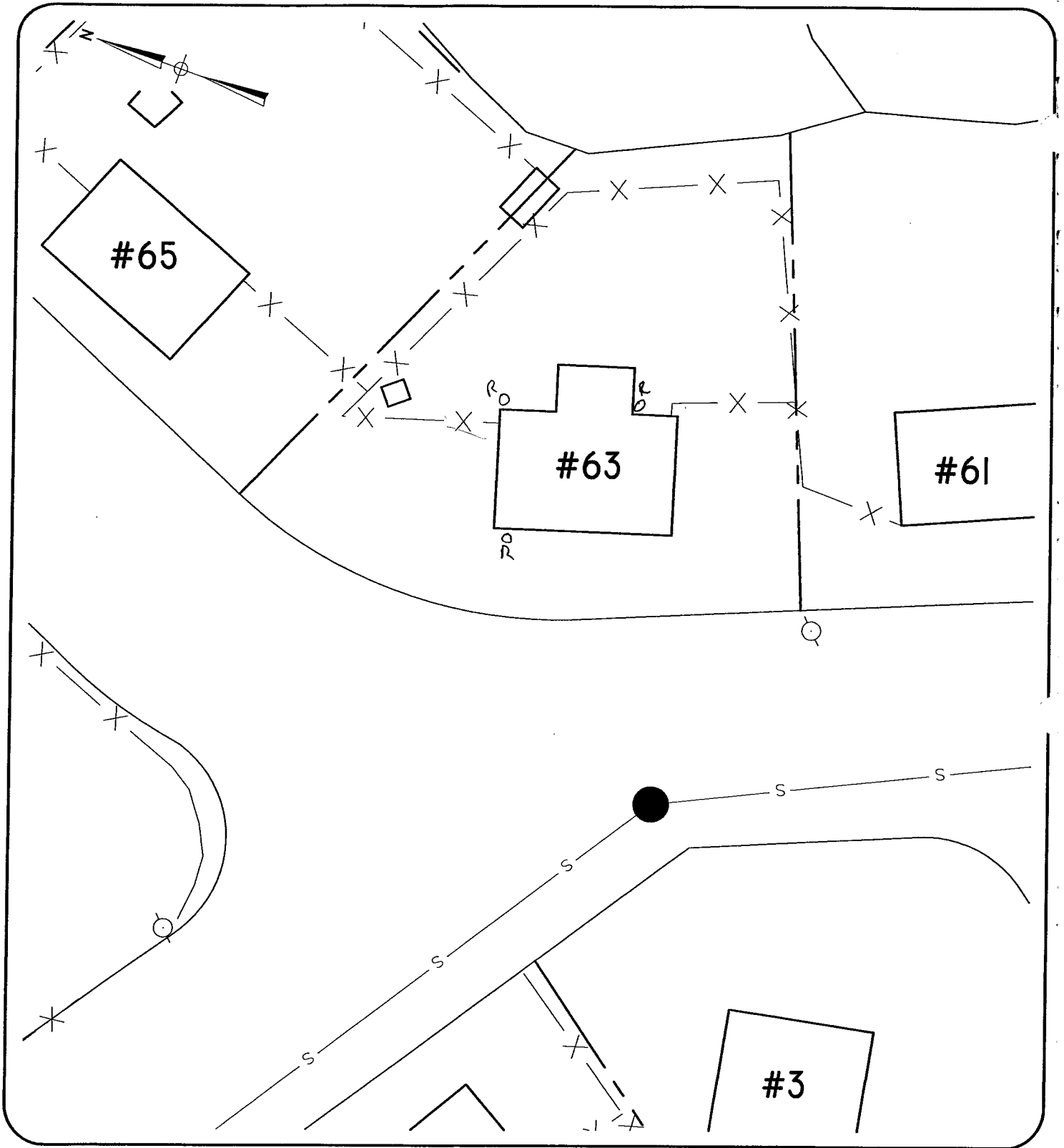
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: House appears to be vacant. no recent activity around or inside Residence

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-6-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #63
 BY#: RM-RT

HOUSE SURVEY

**J Engineering Services
Foster, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 65 WESTSIDE DR Interviewer RM-RT-RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date <u>10-6-09</u> Time: <u>16:30</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2 nd Visit: Date <u>10-8-09</u> Time: <u>12:59</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3 rd Visit: Date <u>10-12-09</u> Time: <u>10:09</u>	Unsuccessful	Not Admitted <input type="checkbox"/>	Other _____
<u>10-13-09</u> <u>17:15</u>		<u>NOT ADMITTED</u> <input checked="" type="checkbox"/>	

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

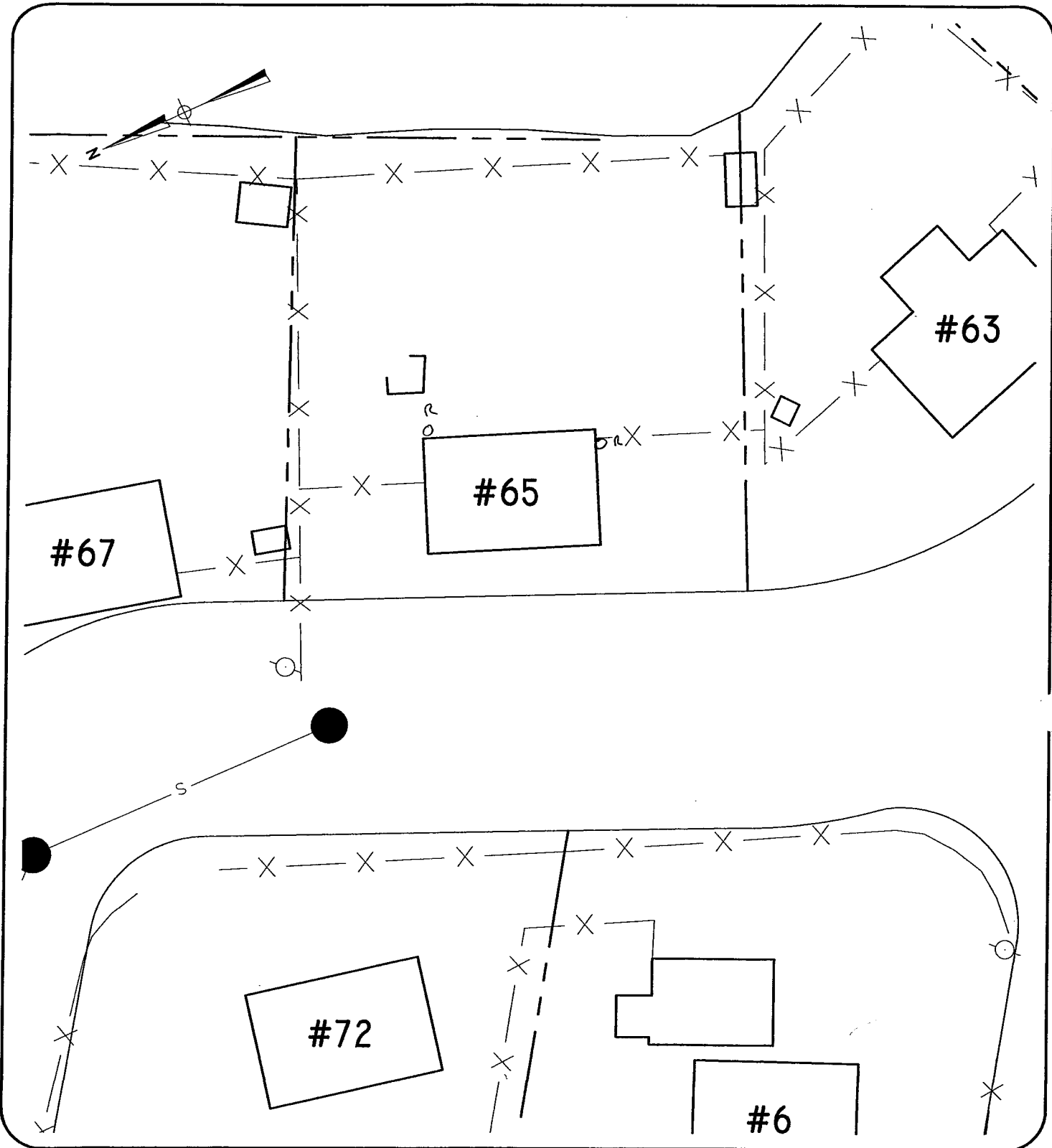
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: Denied Access by home owner

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-6-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #65
 BY#: RM-RT

HOUSE SURVEY

Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 67 West Side Dr. Interviewer RST/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1320 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 13:03 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

3. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

4. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

6. Water Service Information:

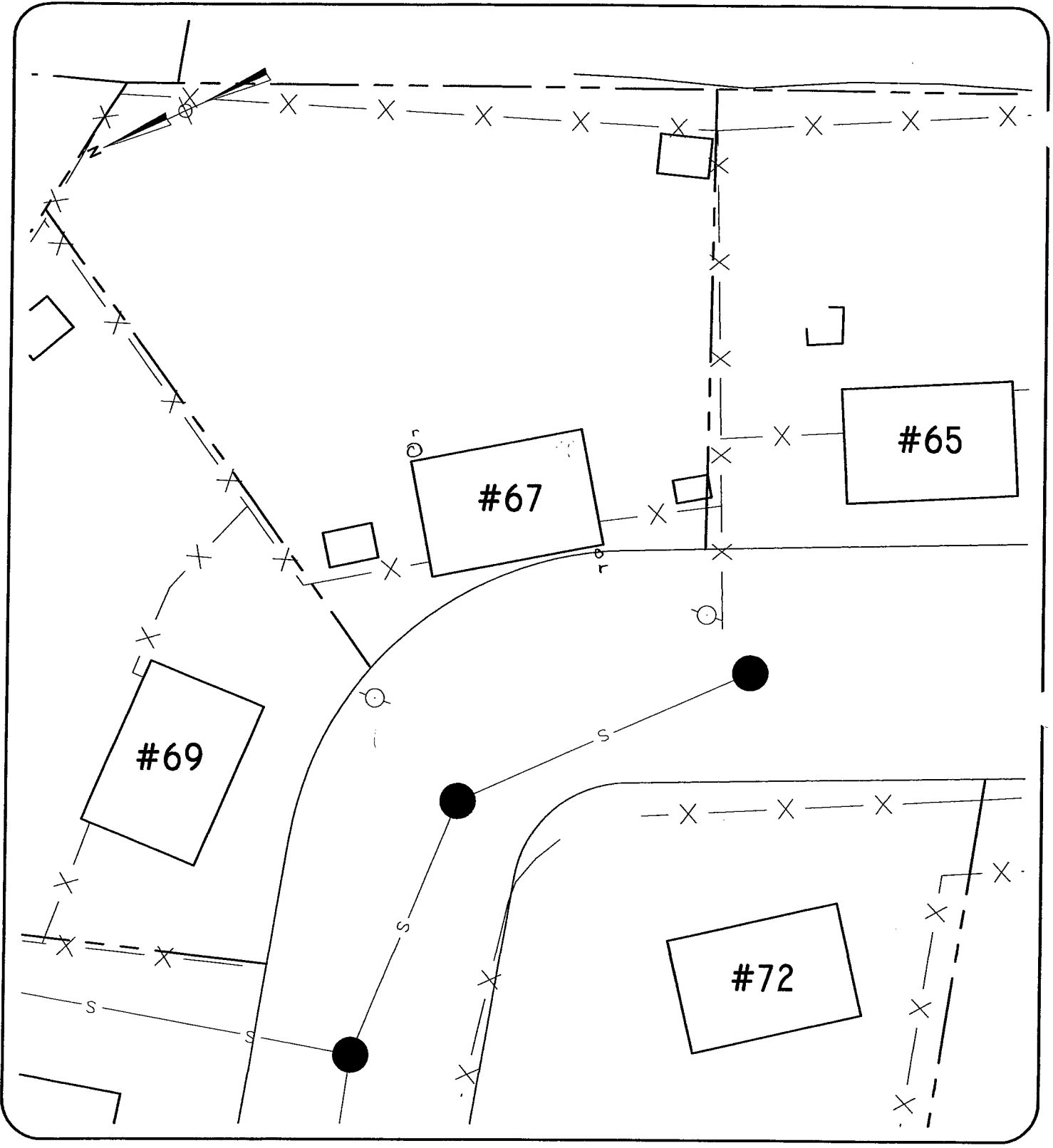
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: Denial Access by occupant.

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

WATER SERVICE	_____	<input type="checkbox"/>
SEWER SERVICE	_____	<input type="checkbox"/>
CURB STOP	_____	<input type="checkbox"/>
WATER METER	_____	<input type="checkbox"/>
SUMP PUMP	_____	<input type="checkbox"/>
DRAIN LINE	_____	<input type="checkbox"/>
CLEAN OUTS	_____	<input type="checkbox"/>
UG UNDERGROUND ELEC.	_____	<input type="checkbox"/>

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE	OUTLET
d - YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x - DOWNSPOUT	● INTO GROUND
r - ROOF LEADER	⊙ ENTERS FOUNDATION

DATE: 10-7-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #67
 BY#: RM

HOUSE SURVEY

VI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 69 Westside Dr. Interviewer RST/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 13:25 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 13:15 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pumps take care of problem.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: FINNISHED BASEMENT

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

3. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: 3 PUMPS

4. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

6. Water Service Information:

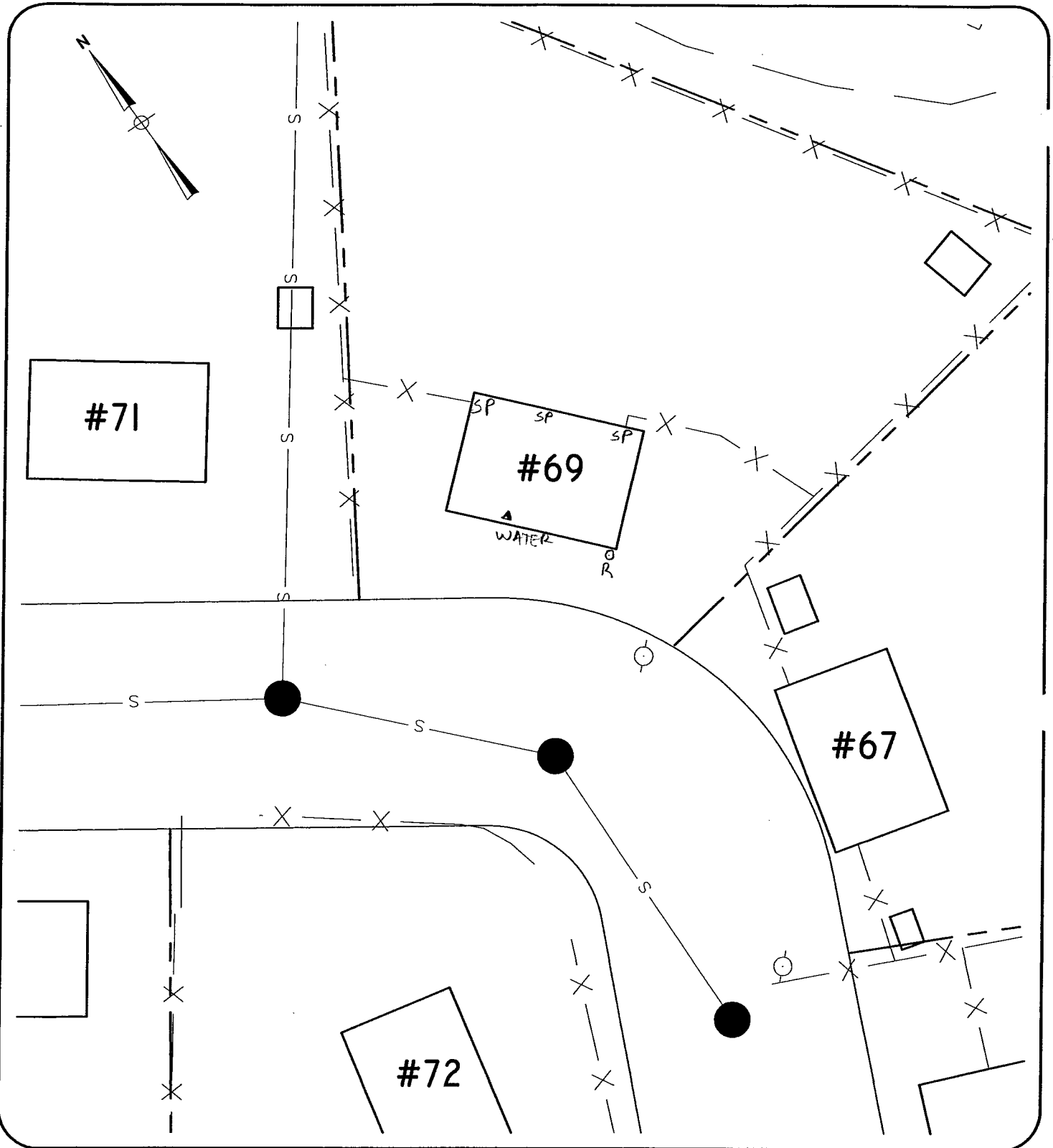
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | <u>DRAIN TYPE</u> | | <u>OUTLET</u> | |
|-------------------|--------------------------|---------------|-------------------|
| d | - YARD OR DRIVEWAY DRAIN | ○ | ONTO SURFACE |
| x | - DOWNSPOUT | ● | INTO GROUND |
| r | - ROOF LEADER | ⊙ | ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #69
 BY#: RST

SCALE: 1"=30'

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 71 Westside DE Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1329 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump for majority then shop vac into toilet.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: owner states that both sumps used to be tied into sewer.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Clean out is capped.

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

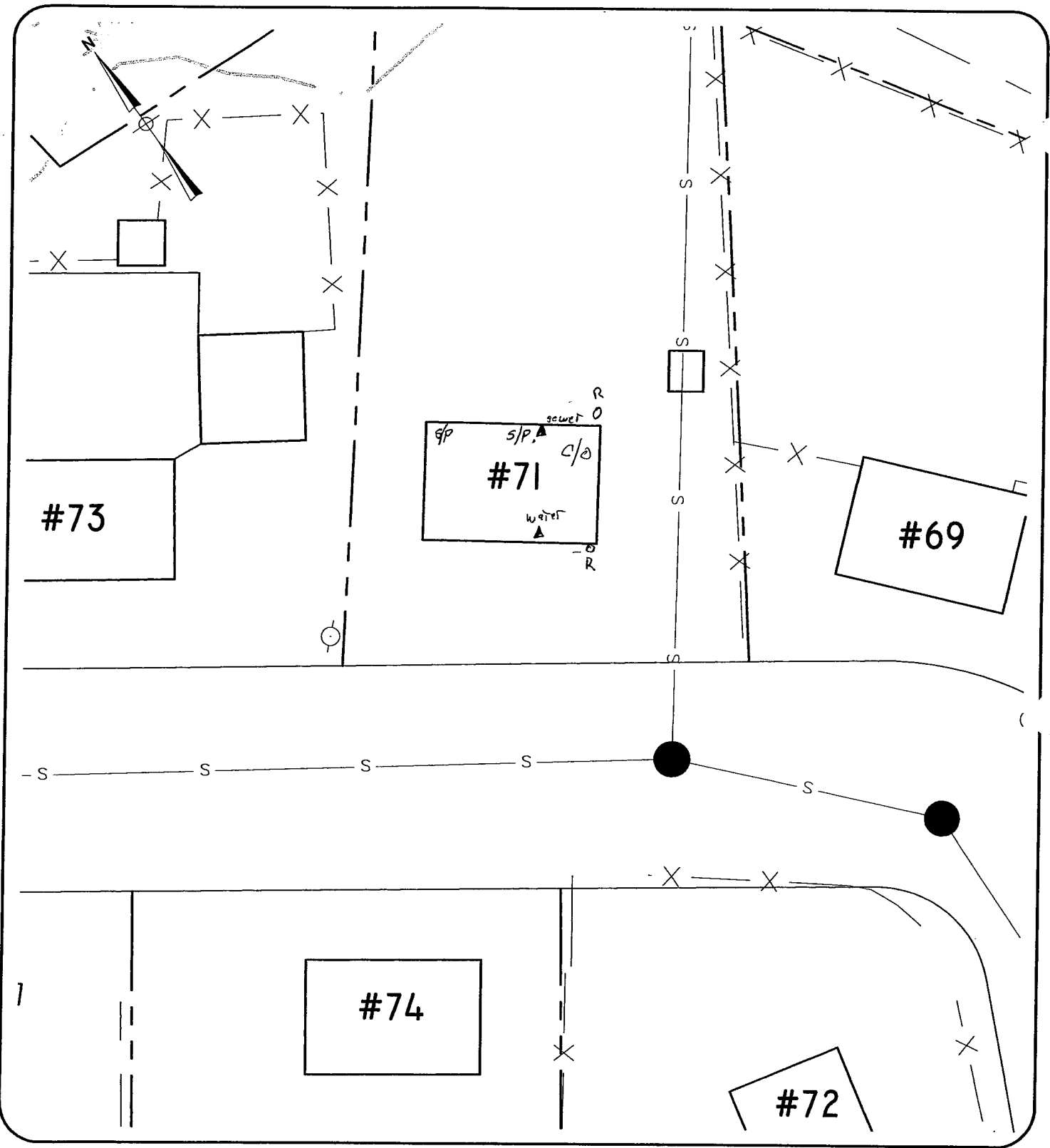
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #71
 BY#: RSJ

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 72 Westside Dr. Interviewer RST/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 13:21 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-9-09 Time: 13:03 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: USES SHOP VAC TO REMOVE WATER

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 82"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other PUMPS DONT WORK

Comments: SUMP PUMPS ARE NOT HOOKED UP TO ANY THING / OLD PUMPS

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

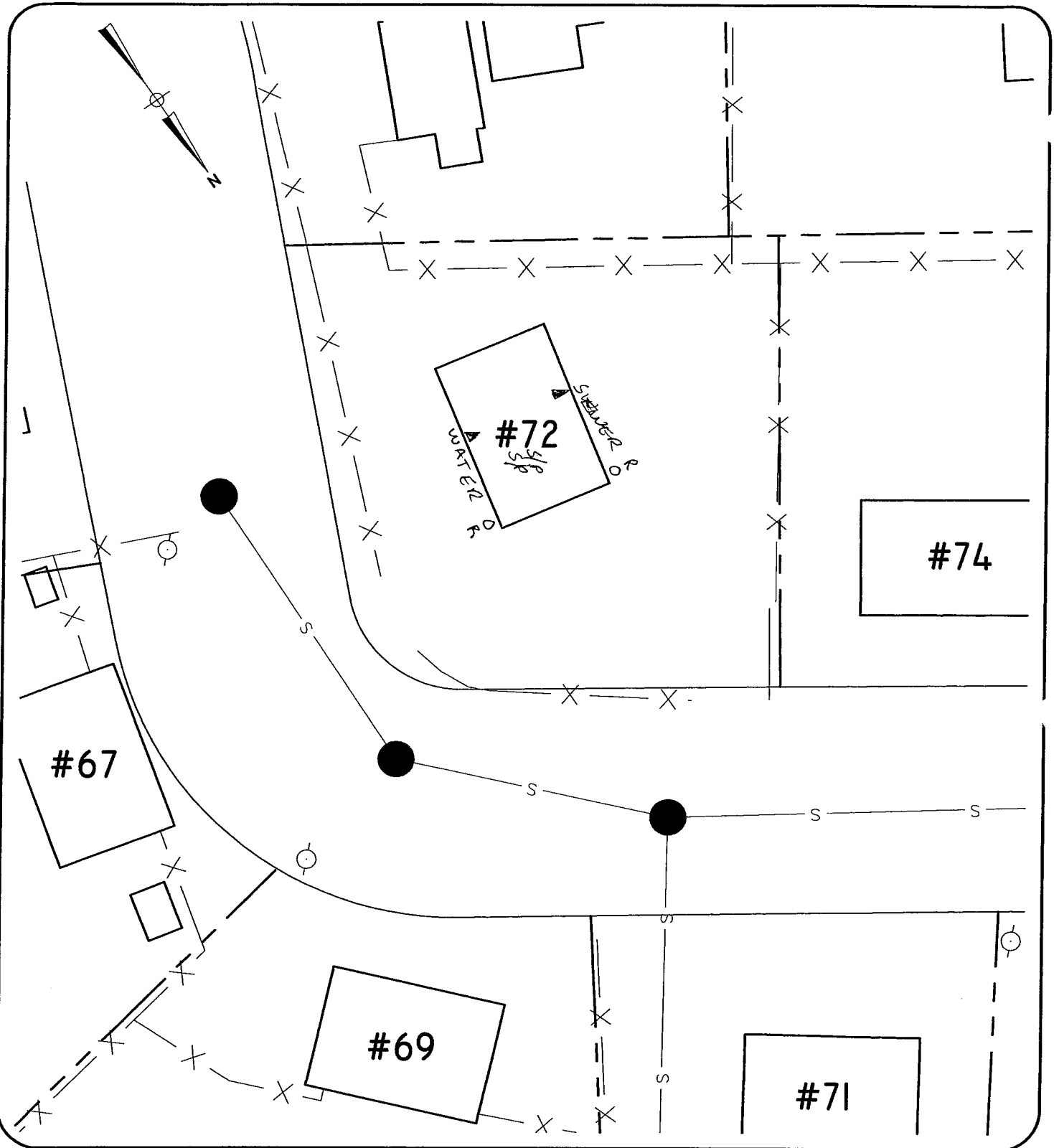
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #72
 BY#: RSI/RM

HOUSE SURVEY

I Engineering Services
Foster, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 73 westside Dr. Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1338 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump was put in.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: Finished Basement with toilet

Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 81"

Above Floor Level - Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

3. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

4. Are the following present in the basement to collect water from the floor? (Indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Clean out is capped.

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

6. Water Service Information:

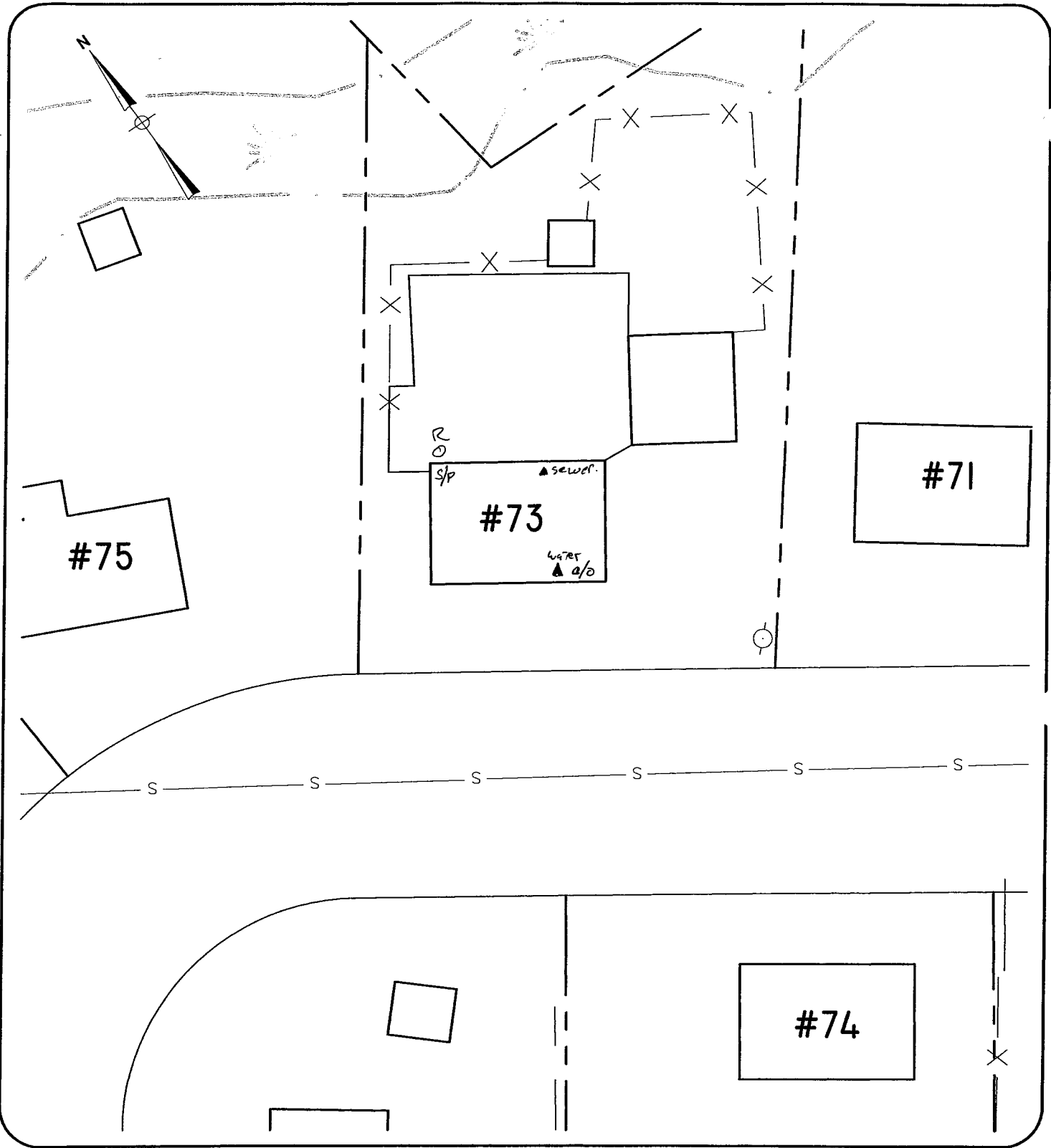
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-7-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #73
 BY#: RJ

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 74 Westside Dr Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1347 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: portable sump to surface.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 83"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: portable sump (no sump pit)

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 2

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

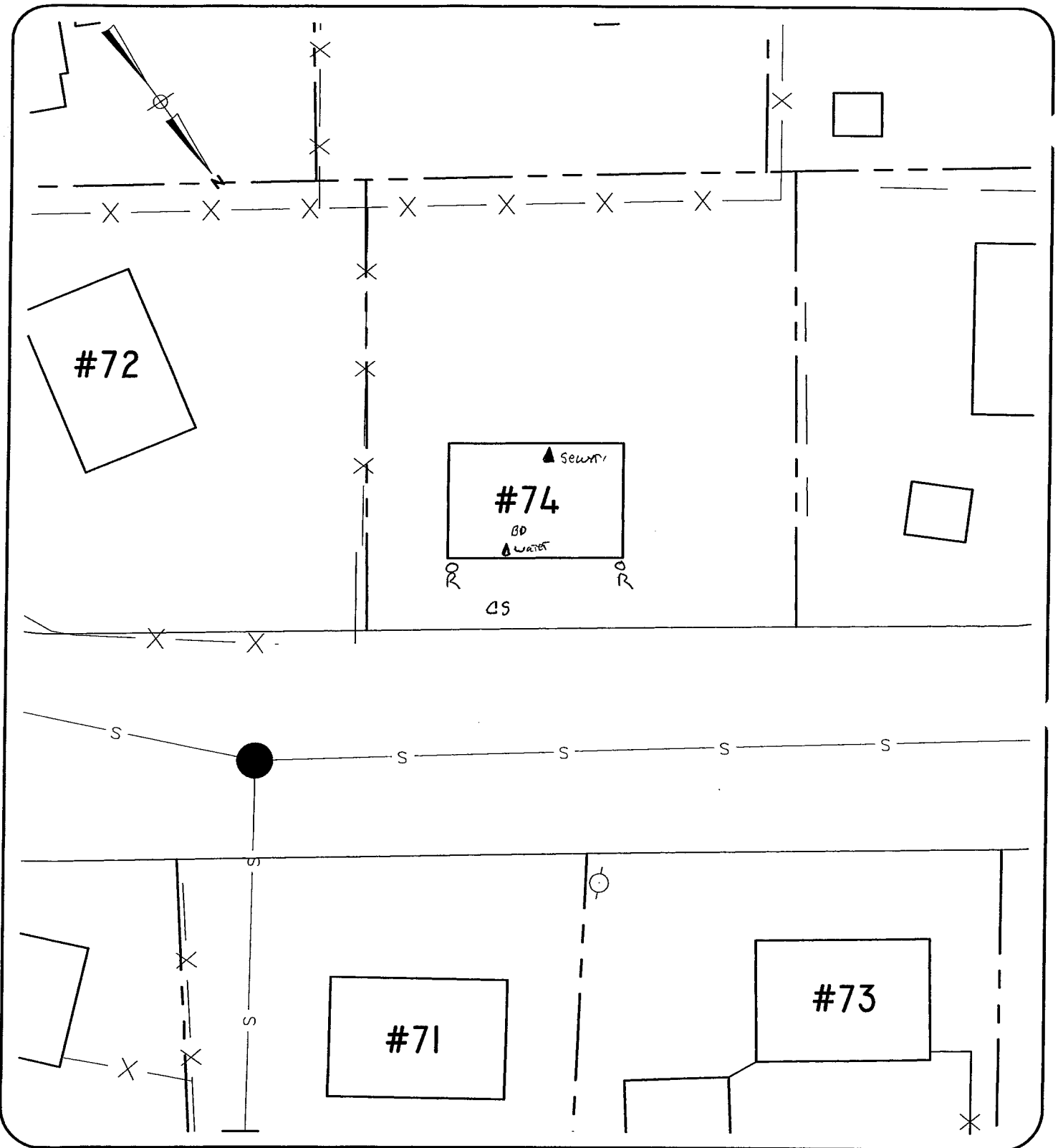
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #74
 BY#: BSI

HOUSE SURVEY

I/I Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 75 Westside Dr Interviewer RSI

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1356 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: PARTIALLY FINISHED

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 86"

Above Floor Level – Distance From Invert to Sill Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: RESIDENT SAID SHE THOUGHT THERE WAS A SUMP PUMP. WE COULD NOT FIND ONE. ALL PIPES ON STACK ARE ACCOUNTED FOR.

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

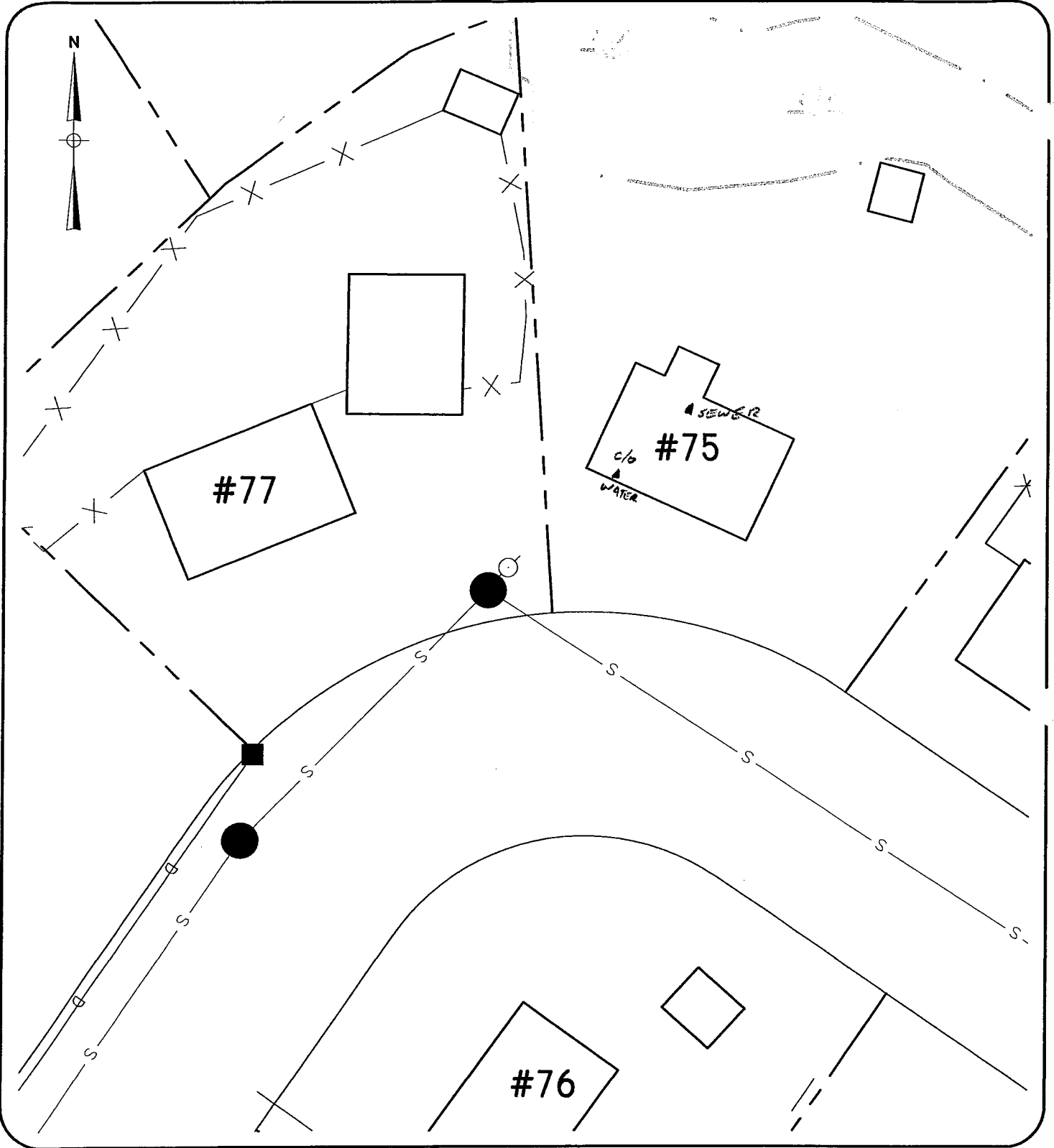
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #75
 BY#: RST

SCALE: 1"=30'

HOUSE SURVEY

**I/I Engineering Services
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 76 Westside Dr Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1359 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill _____

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: home on a slab sewer clean out in front of fld. beside front door

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

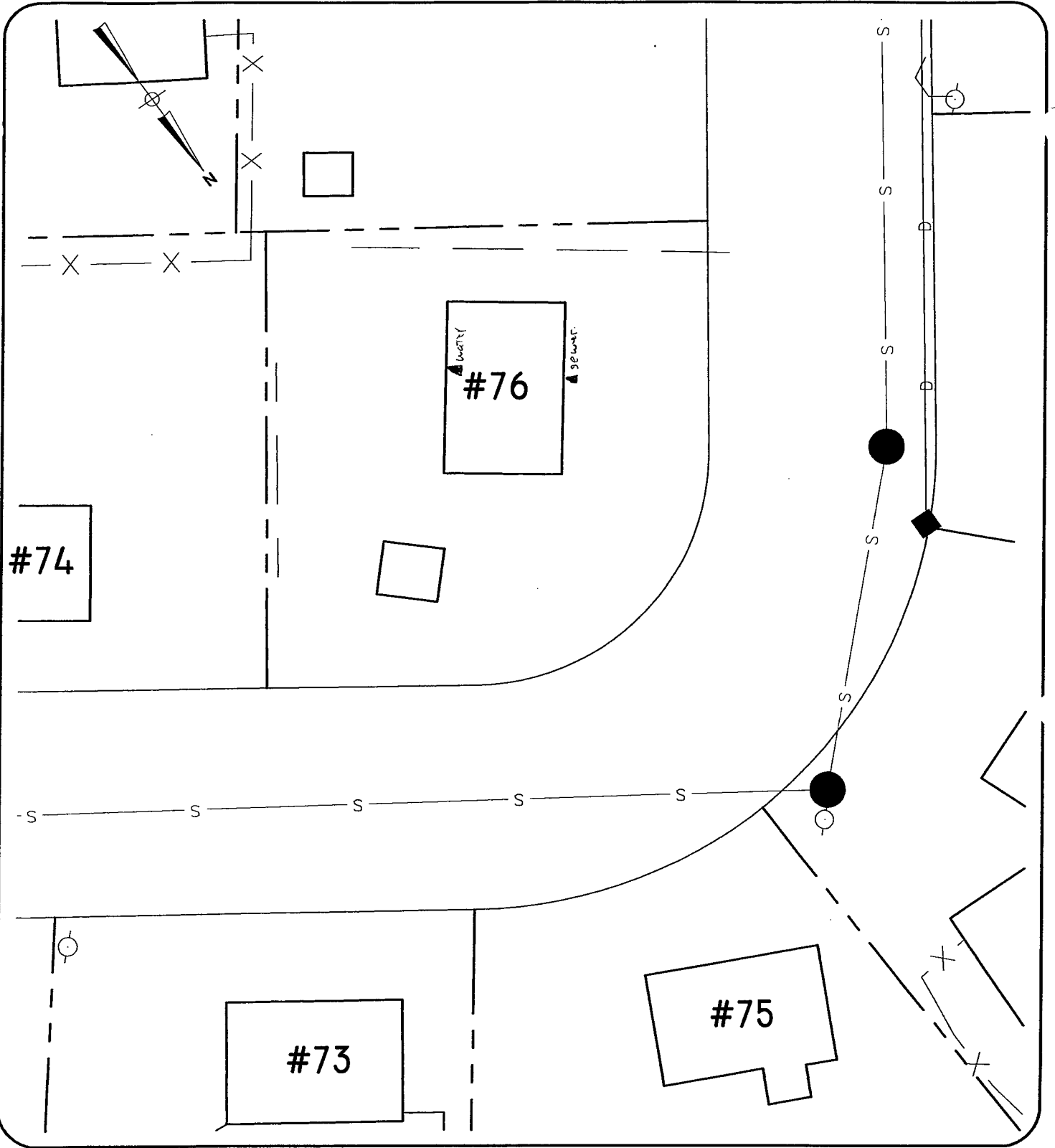
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #76
 BY#: RST

SCALE: 1"=30'

HOUSE SURVEY

I/I Engineering Services
Manchester, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 77 Westside Dr Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1407 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 83"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Clean out capped

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

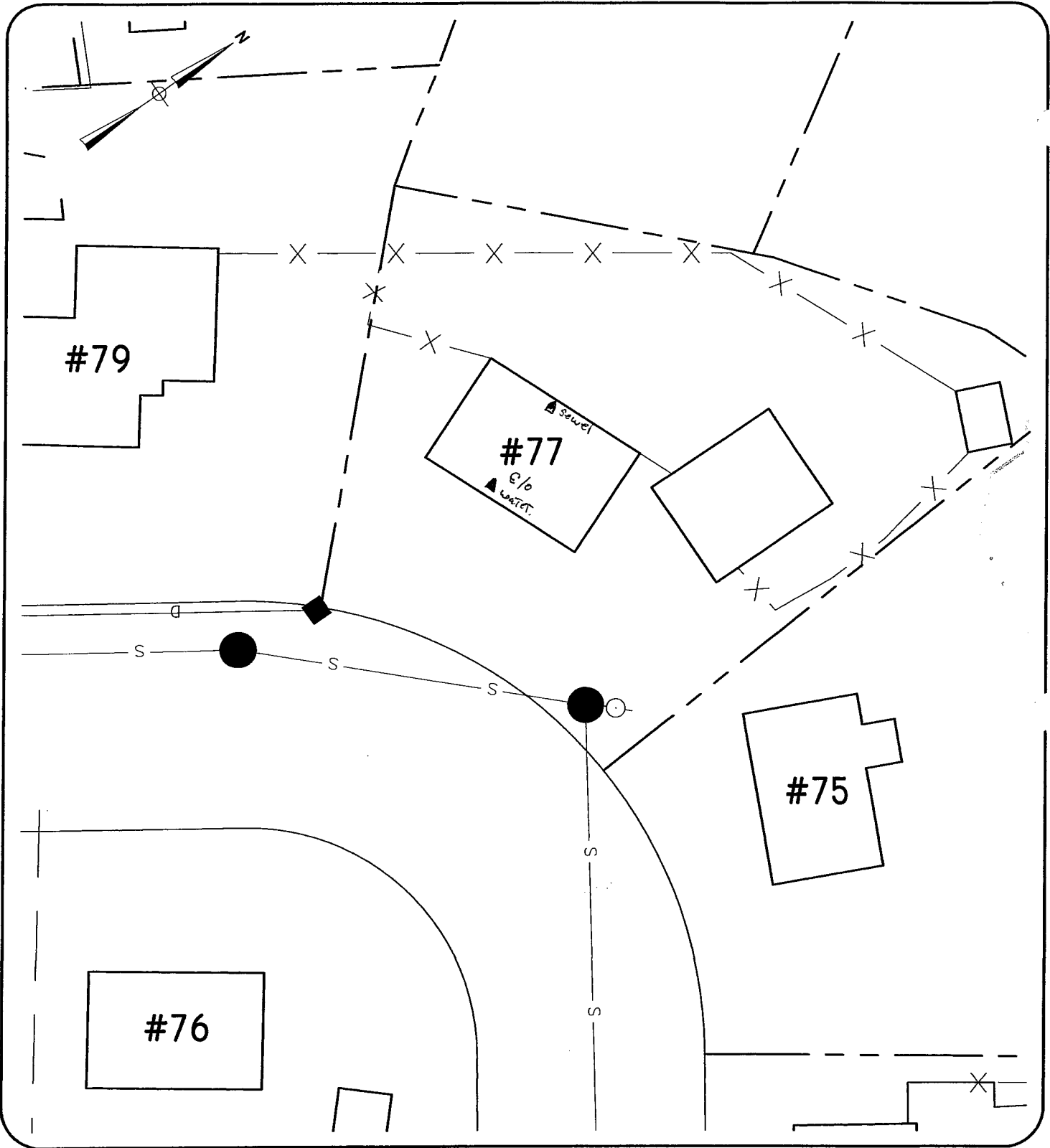
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

WATER SERVICE	_____	<input checked="" type="checkbox"/>
SEWER SERVICE	_____	<input checked="" type="checkbox"/>
CURB STOP	_____	<input type="checkbox"/>
WATER METER	_____	<input checked="" type="checkbox"/>
SUMP PUMP	_____	<input type="checkbox"/>
DRAIN LINE	_____	<input type="checkbox"/>
CLEAN OUTS	_____	<input type="checkbox"/>
UG UNDERGROUND ELEC.	_____	<input type="checkbox"/>

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE	OUTLET
d - YARD OR DRIVEWAY DRAIN	○ ONTO SURFACE
x - DOWNSPOUT	● INTO GROUND
r - ROOF LEADER	⊙ ENTERS FOUNDATION

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #77
 BY#: RT

HOUSE SURVEY

**I/I Engineering Services
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 79 Westside Dr. Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1413 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: Sump pump.

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (Indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Clean out capped.

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

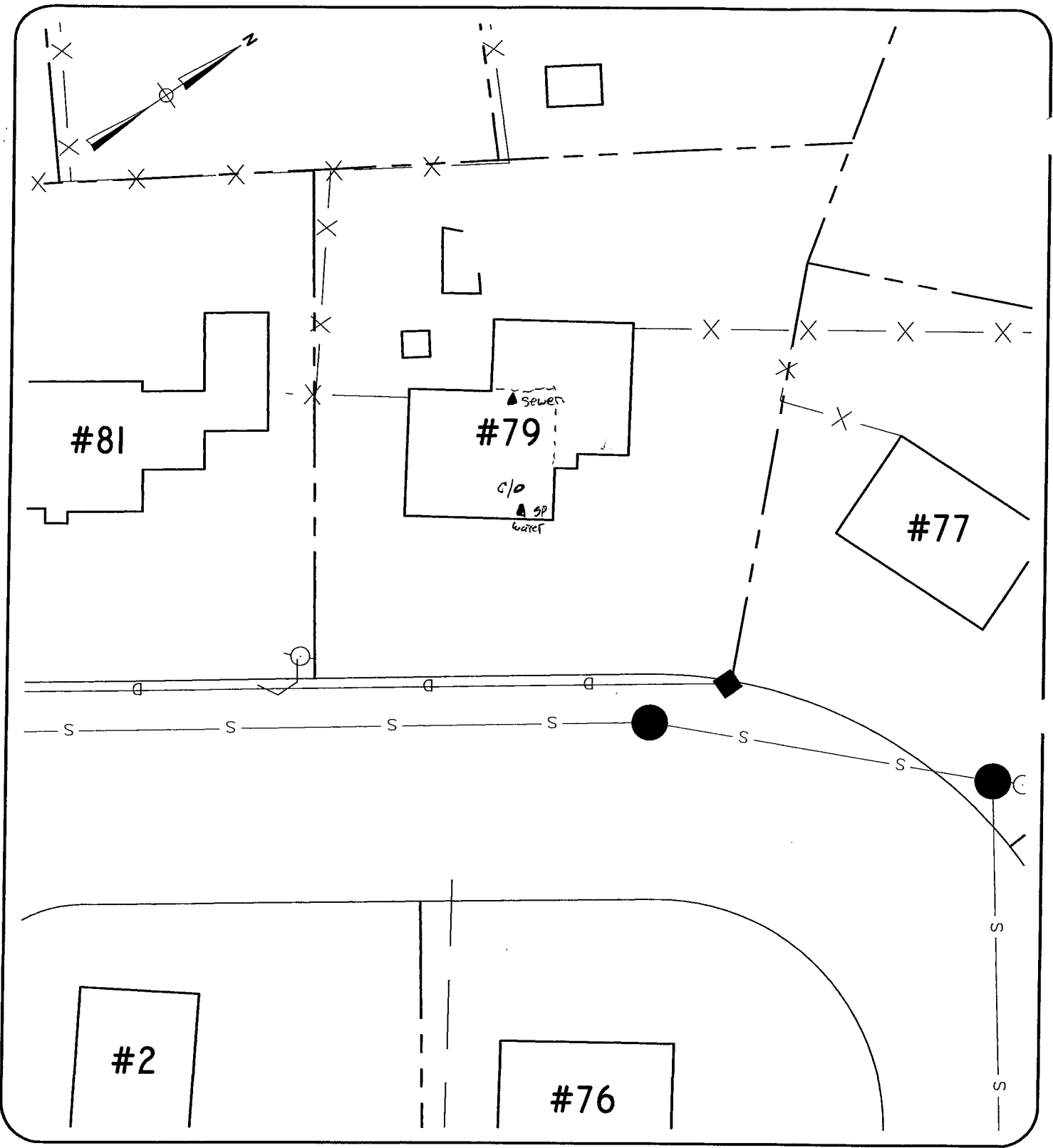
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #79
 BY#: RST

HOUSE SURVEY

**I/I Engineering Services
Exeter, NH**

**Flow Assessment Services
Bedford, NH**

Lot # _____ Tax Map # _____ Sub System _____ Street # 81 Westside Dr Interviewer RST/Rm

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1423 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 1647 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: NOT WITH NEW SUMP PUMP

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 80"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

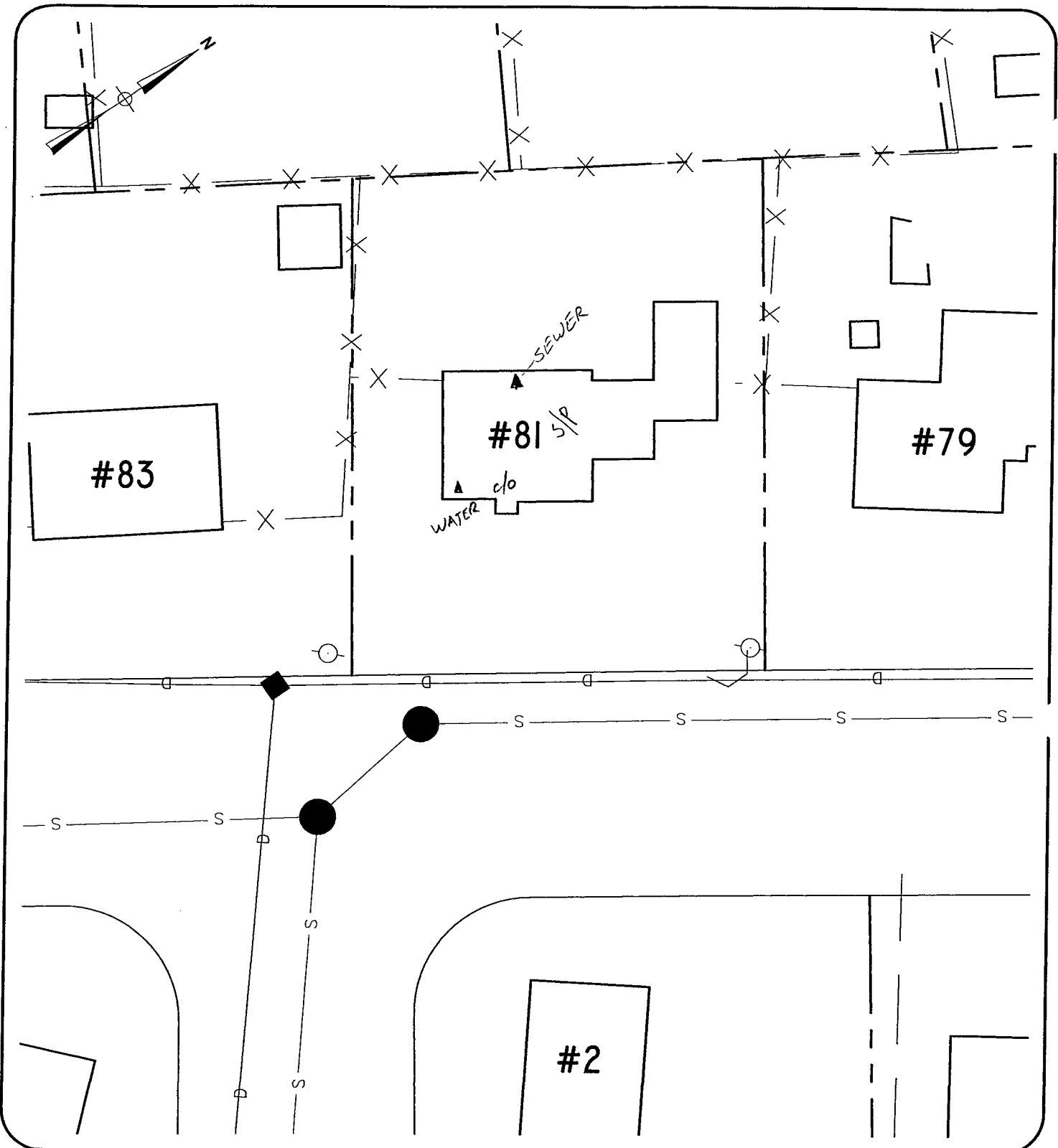
7. Water Service Information:

Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK



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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE _____
- SEWER SERVICE _____
- CURB STOP _____
- WATER METER _____
- SUMP PUMP _____
- DRAIN LINE _____
- CLEAN OUTS _____
- UG UNDERGROUND ELEC. _____

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | | OUTLET | |
|------------|--------------------------|--------|-------------------|
| d | - YARD OR DRIVEWAY DRAIN | ○ | ONTO SURFACE |
| x | - DOWNSPOUT | ● | INTO GROUND |
| r | - ROOF LEADER | ⊙ | ENTERS FOUNDATION |

DATE: 10-07-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #81
 BY#: RST/RM

HOUSE SURVEY

VI Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 82 Westside Dr Interviewer RST

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 1520 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date _____ Time: _____ Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 79"

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: Clean out capped.

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 0

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

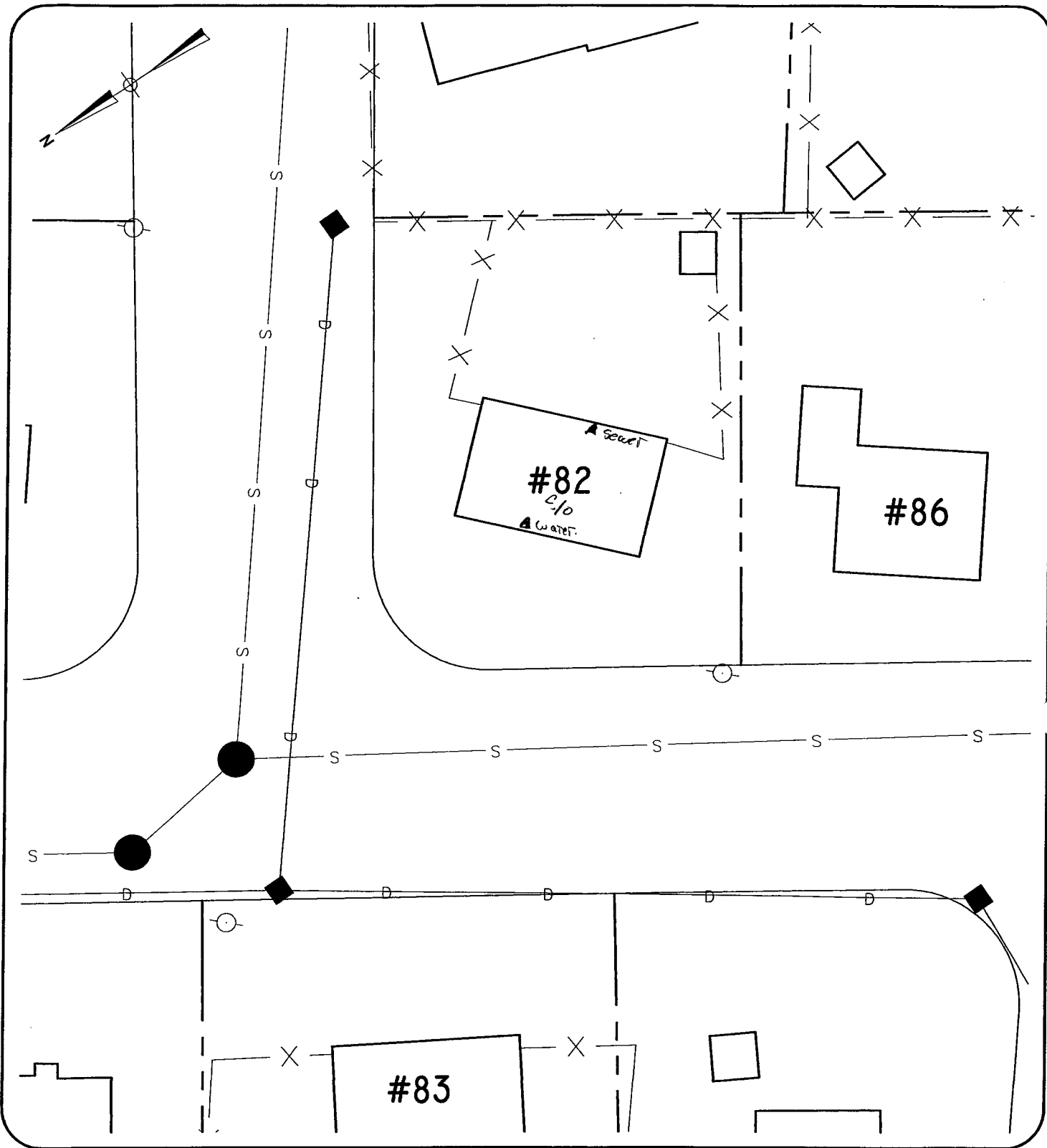
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: _____
WESTSIDE DRIVE
 ADDRESS: #82
 BY#: RSr

HOUSE SURVEY

I/I Engineering Services
Exeter, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 83 Westside Dr Interviewer RST/RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date 10-7-09 Time: 14:26 Unsuccessful, Left Flyer Not Admitted Other _____
2nd Visit: Date 10-8-09 Time: 16:47 Unsuccessful, Left Flyer Not Admitted Other _____
3rd Visit: Date _____ Time: _____ Unsuccessful _____ Not Admitted Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other

Comments: PREVIOUS OWNERS HAD FLOOD

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 88.2

Above Floor Level - Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: S/P NEVER RUNS

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

5. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 1 RL Onto Surface 1

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

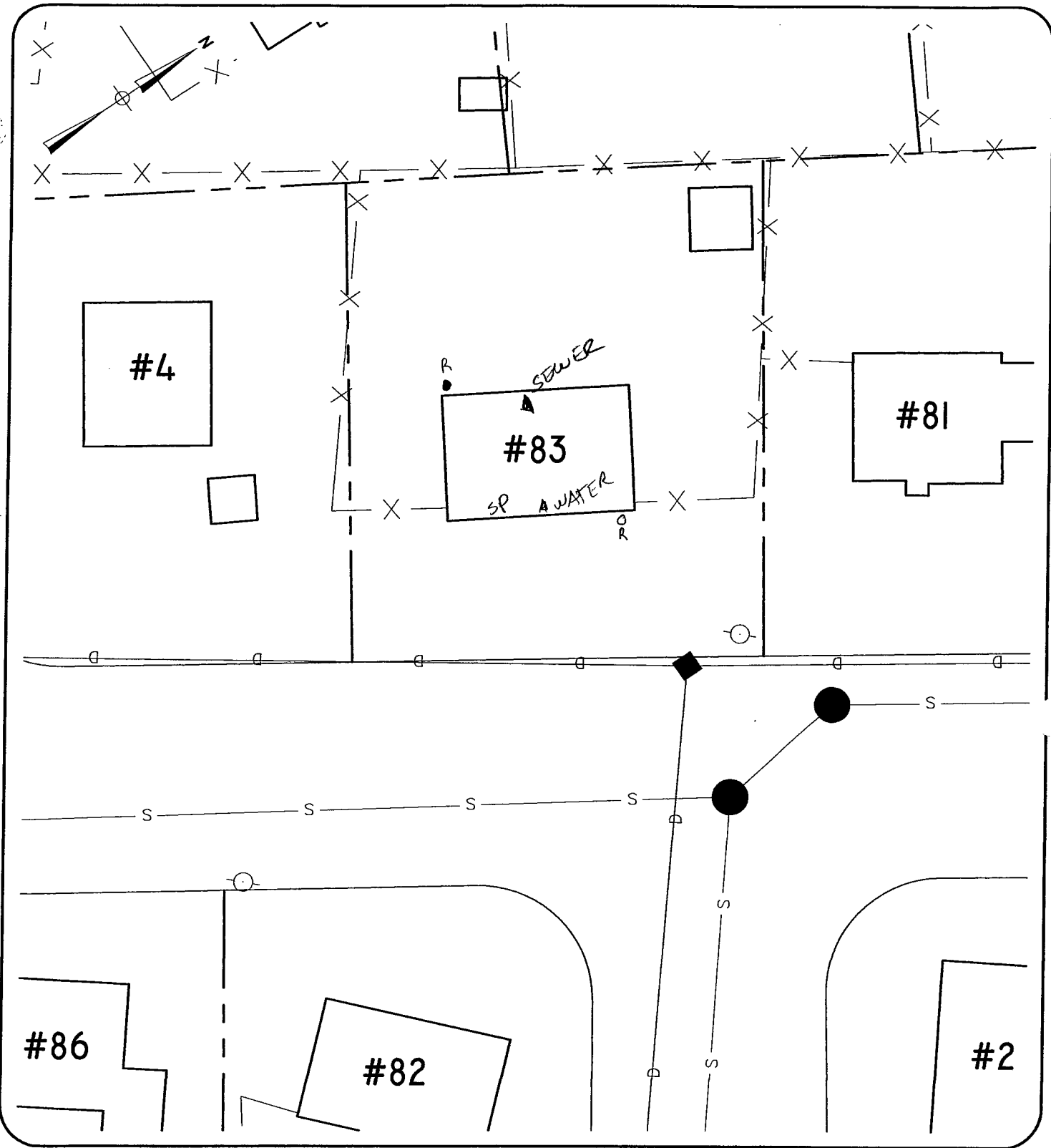
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE - SEE SKETCH ON BACK

H:\SDSKPROJ\...-542LDD\dwg\EXETER_GIS.dwg, HSE2HSE, 5/21/2009 11:29:52 AM, rta



SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

- | DRAIN TYPE | OUTLET |
|----------------------------|---------------------|
| d - YARD OR DRIVEWAY DRAIN | ○ ONTO SURFACE |
| x - DOWNSPOUT | ● INTO GROUND |
| r - ROOF LEADER | ⊙ ENTERS FOUNDATION |

DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #83
 BY#: RSJ/RM

HOUSE SURVEY

Engineering Services
Bedford, NH

Flow Assessment Services
Bedford, NH

Lot # _____ Tax Map # _____ Sub System _____ Street # 86 Westside Dr Interviewer RST / RM

Multi Unit Res Single Unit Res Commercial # of Units _____ House Vacant

Initial Visit: Date	<u>10-7-09</u>	Time: <u>15:28</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
2 nd Visit: Date	<u>10-8-09</u>	Time: <u>17:50</u>	Unsuccessful, Left Flyer <input type="checkbox"/>	Not Admitted <input type="checkbox"/>	Other _____
3 rd Visit: Date	_____	Time: _____	Unsuccessful _____	Not Admitted <input type="checkbox"/>	Other _____

1. Have any of the following problems occurred?

Flooded Basement Sewage in Basement Clogged Pipe Not Known Other _____

Comments: _____

2. Is there a basement? Full Basement Crawl Space Slab Floor Dirt Floor Comments: _____

3. Sewer Invert Information? Cannot Locate Distance From Basement Floor to Sill 83"

Above Floor Level – Distance From Invert to Sill _____ Unknown Distance From Floor Below Floor Level

Pipe Material: Cast Iron PVC Clay Other _____

Comments: _____

4. Is there a Sump Pump? Yes No

If yes, where does the pump discharge? Sanitary Sewer Separate Pipe Out Surface Cannot Locate

Unknown Other _____

Comments: _____

5. Are the following present in the basement to collect water from the floor? (indicate if connected to sewer)

Open Clean Out Basement Drain Open Pipe Sump Pit Recommend Dye Test

Comments: _____

6. Any of the following present outside the building (Put quantity observed in spaces marked and indicate if connected to sewer)

Roof Leader (RL) Into Foundation 0 RL Into Ground 0 RL Onto Surface 3

Flat Roof Drain System Yard Drain Window Well Drain Stair Well Drain Driveway Drain

Comments: _____

7. Water Service Information:

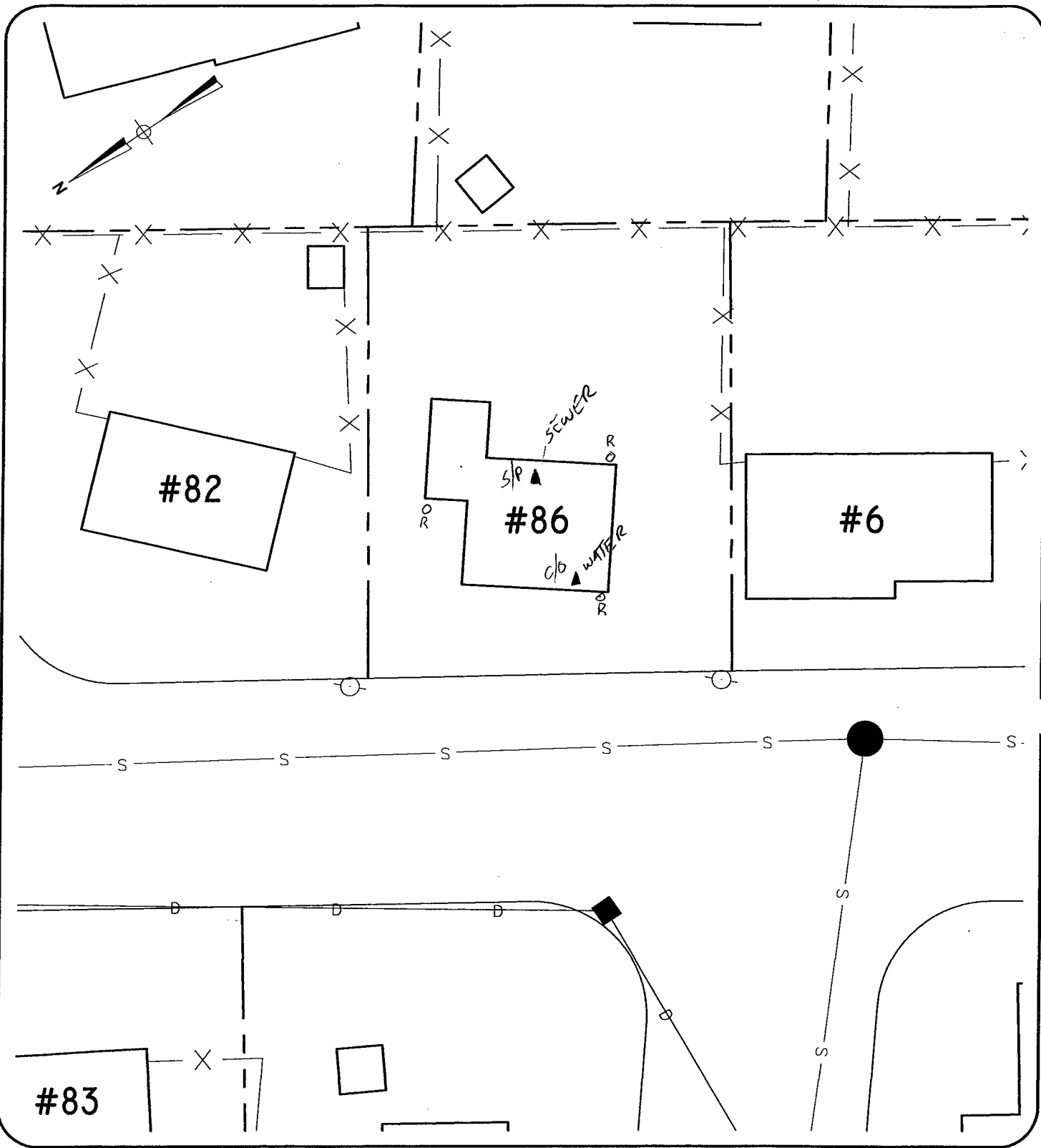
Cannot Locate Above Floor Level Distance from Sill _____ Below Floor Level

Pipe Material: Copper Plastic Iron Lead Other _____ Comments: _____

General Comments: _____

NOTE – SEE SKETCH ON BACK

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SCHEMATIC INFORMATION CHECKLIST

- WATER SERVICE
- SEWER SERVICE
- CURB STOP
- WATER METER
- SUMP PUMP
- DRAIN LINE
- CLEAN OUTS
- UG UNDERGROUND ELEC.

**House-to-House Survey
I&I Engineering Services
Exeter, NH**

DRAIN TYPE

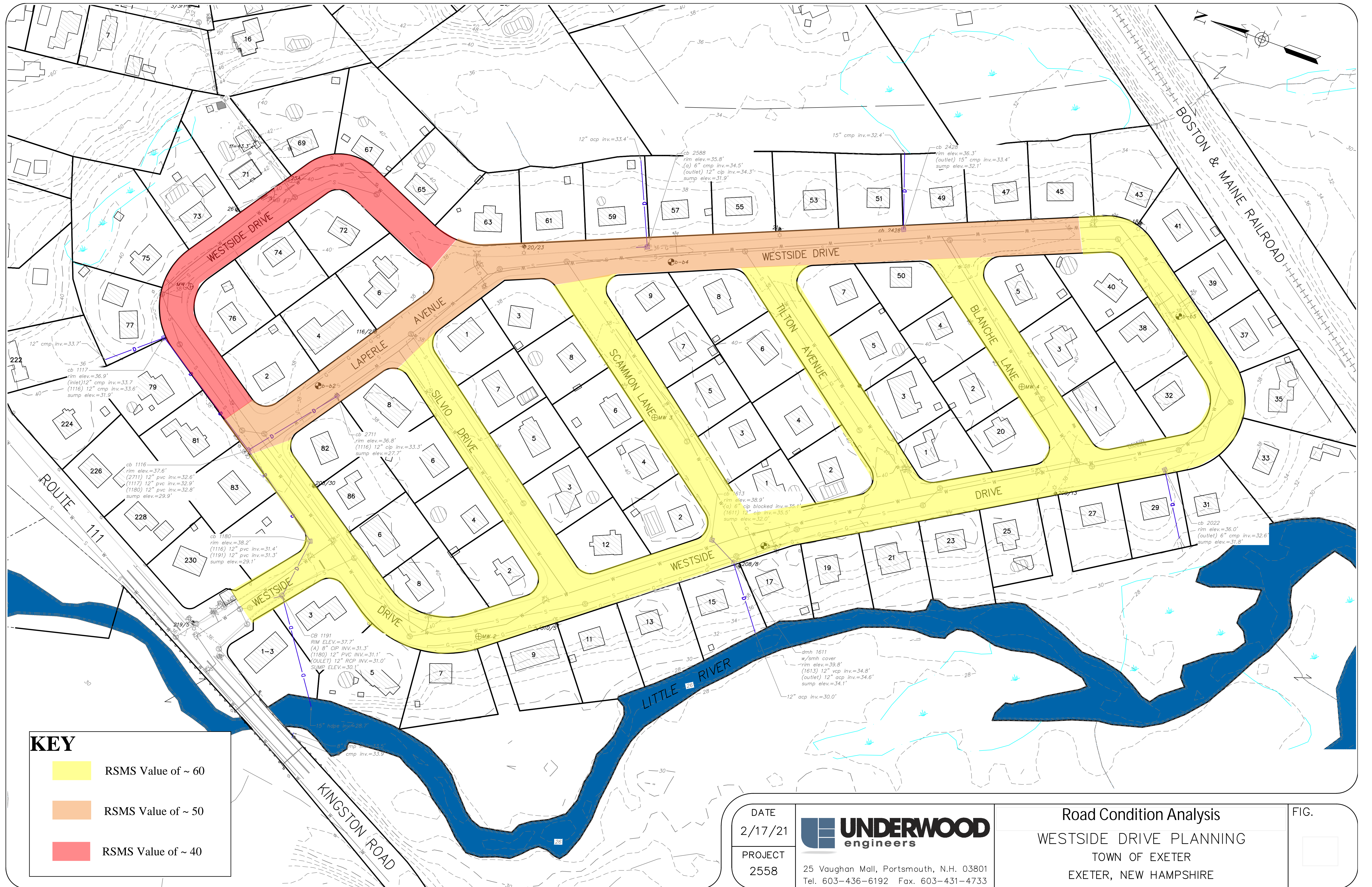
- d - YARD OR DRIVEWAY DRAIN
- x - DOWNSPOUT
- r - ROOF LEADER

OUTLET

- ONTO SURFACE
- INTO GROUND
- ⊙ ENTERS FOUNDATION


DATE: 10-7-09
 STREET: WESTSIDE DRIVE
 ADDRESS: #86
 BY#: RST/RM

Appendix H
Road Condition Analysis



KEY

	RSMS Value of ~ 60
	RSMS Value of ~ 50
	RSMS Value of ~ 40

DATE 2/17/21	 UNDERWOOD engineers
PROJECT 2558	
25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733	

Road Condition Analysis
 WESTSIDE DRIVE PLANNING
 TOWN OF EXETER
 EXETER, NEW HAMPSHIRE

FIG.

RSMS Inventory and Condition Assessment Asphalt Surface Road Sections

Inspected by: EBW/cgm

Date: 3.12.21 RIN: _____

Road Name: Westside Drive + Cross streets Road Section: _____

Seq. No.: _____ Maintenance Div.: _____

From _____ To _____ Jurisdiction: _____

No. Lanes _____ Width: 150 ft

Shoulder Width: _____ ft Class: V

Shoulder: Natural Gravel Traffic: (1) 2 3 4 5

Gravel Backing: Yes No Importance: (1) 2 3 4 5

Shoulder Description: Mostly sidewalk and curbs

Mile Post: _____ End Post: _____

Comments: Road conditions were fairly consistent through the area. Transverse cracking seemed consistently spaced, longitudinal cracking evident. Not much alligator cracking or potholes/patches

Condition & Deduct Value

			←	Extent		→
			None	Low	Medium	High
			No Defects	<10%	10-30%	>30%
Alligator Cracking	Severity	Low	0	2	5	8
		Medium		<u>(5)</u>	8	11
		High		8	11	14
Long/Trans Cracking	Severity	Low	0	2	5	8
		Medium		5	8	11
		High		8	11	<u>(14)</u>
Edge Cracking	Severity	Low	<u>(0)</u>	2	5	8
		Medium		5	8	11
		High		8	11	14
Patch/Pothole.....		No Defects	0	<u>(2)</u>	5	14
Roughness		Good	0	<u>(8)</u>	15	
		None		0-1 inch	>1 inch	
Rutting.....		Good	<u>(0)</u>	8	14	
Drainage		Good	0	<u>(8)</u>	14	
		Fair		Poor		

Westside Drive and Cross Streets Photos



Westside Drive and Cross Streets Photos



Westside Drive and Cross Streets Photos



RSMS Inventory and Condition Assessment Asphalt Surface Road Sections

Inspected by: EBN/CGM

Date: _____
 Road Name: Loop (Westside)
 Seq. No.: _____
 From _____ To _____
 No. Lanes _____ Width: ~50 ft
 Shoulder Width: _____ ft
 Shoulder: Natural Gravel
 Gravel Backing: Yes No
 Shoulder Description: Sidewalk +
curbing
 Mile Post: _____ End Post: _____

RIN: _____
 Road Section: _____
 Maintenance Div.: _____
 Jurisdiction: _____
 Class: V
 Traffic: ① 2 3 4 5
 Importance: ① 2 3 4 5

Comments: Area includes the northern Loop of Westside Pr.
Alligator Cracking is more prevalent as well as pot holes.
Ponding throughout, appears to be groundwater coming up. Rust
stains on pavement in NE corner.

Condition & Deduct Value

		Extent			
		←			→
		None	Low	Medium	High
		No Defects	<10%	10-30%	>30%
Alligator Cracking	Severity Low	0	2	5	8
	Medium		5	8	11
	High		8	11	①4
Long/Trans Cracking	Severity Low	0	2	5	8
	Medium		5	8	11
	High		8	11	①4
Edge Cracking	Severity Low	①0	2	5	8
	Medium		5	8	11
	High		8	11	14
Patch/Pothole.....		0	2	①5	14
Roughness		Good	Fair	Poor	
		0	8	①5	
Rutting.....		None	0-1 inch	>1 inch	
		0	①8	14	
Drainage		Good	Fair	Poor	
		0	8	①4	

Westside Drive Northern Loop Photos



Westside Drive Northern Loop Photos



Westside Drive Northern Loop Photos



Westside Drive Northern Loop Photos



RSMS Inventory and Condition Assessment Asphalt Surface Road Sections

Inspected by: EBN/egm

Date: _____ RIN: _____
 Road Name: WS Tilton E to Laporte Road Section: _____
 Seq. No.: _____ Maintenance Div.: _____
 From _____ To _____ Jurisdiction: _____
 No. Lanes _____ Width: ~ 50 ft
 Shoulder Width: _____ ft Class: V
 Shoulder: Natural Gravel Traffic: (1) 2 3 4 5
 Gravel Backing: Yes No Importance: (1) 2 3 4 5
 Shoulder Description: side walk and curbing
 Mile Post: _____ End Post: _____

Comments: Section begins near Tilton on the East side of WS and continues on through Laporte. Area has more patching rutting, and potholes. Ponding on Laporte. Area near intersection of Laporte and North WS appears better.

Condition & Deduct Value

			←	Extent	→	
			None	Low	Medium	High
			No Defects	<10%	10-30%	>30%
Alligator Cracking	Severity	Low	0	2	5	8
		Medium		5	8	11
		High		8	11	14
Long/Trans Cracking	Severity	Low	0	2	5	8
		Medium		5	8	11
		High		8	11	14
Edge Cracking	Severity	Low	0	2	5	8
		Medium		5	8	11
		High		8	11	14
Patch/Pothole.....			0	2	5	14
Roughness		Good	0	8	15	
		Fair				
Rutting.....		None	0	8	14	
		0-1 inch				
Drainage		Good	0	8	14	
		Fair				
		Poor			14	

Laperle Section Photos



Laperle Section Photos




Laperle Section Photos



Appendix I
Drainage Structures

Storm Drain Outfall Inspection Form

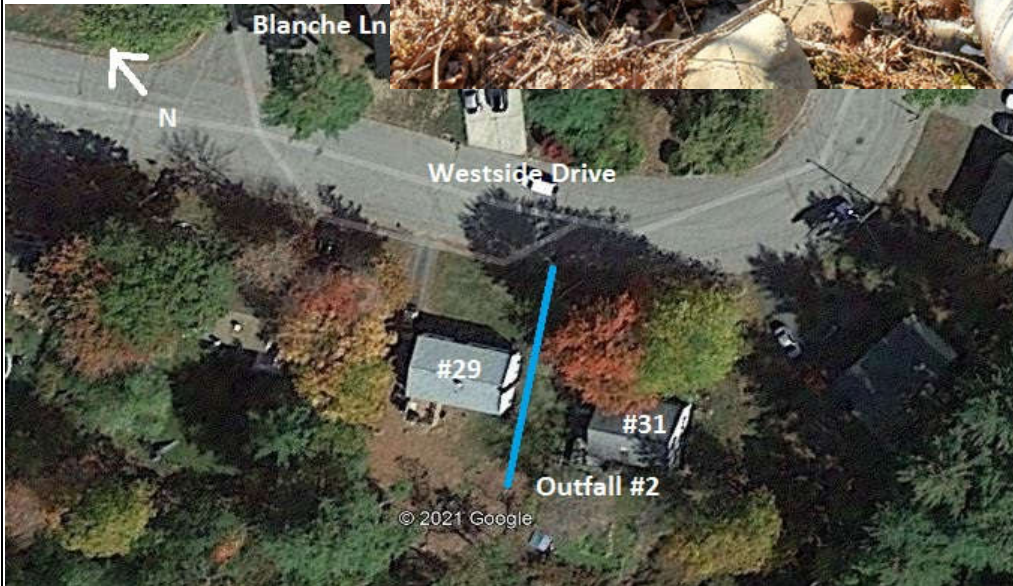
Date Inspected	1/22/2021
2588 Westside Drive Conceptual Improvements, Exeter NH	
Outfall ID	#1
Location	Discharges to the Little River between 15 and 17 Westside Drive
Size	12"
Material	ACP
Condition	No Visible Damage to pipe, no visible blockage, water was flowing out.
Notes	Approximately 40" of the pipe is exposed and hangs over the river bank unsupported. Outfall appears that it would be damaged easily.
	

Storm Drain Outfall Inspection Form

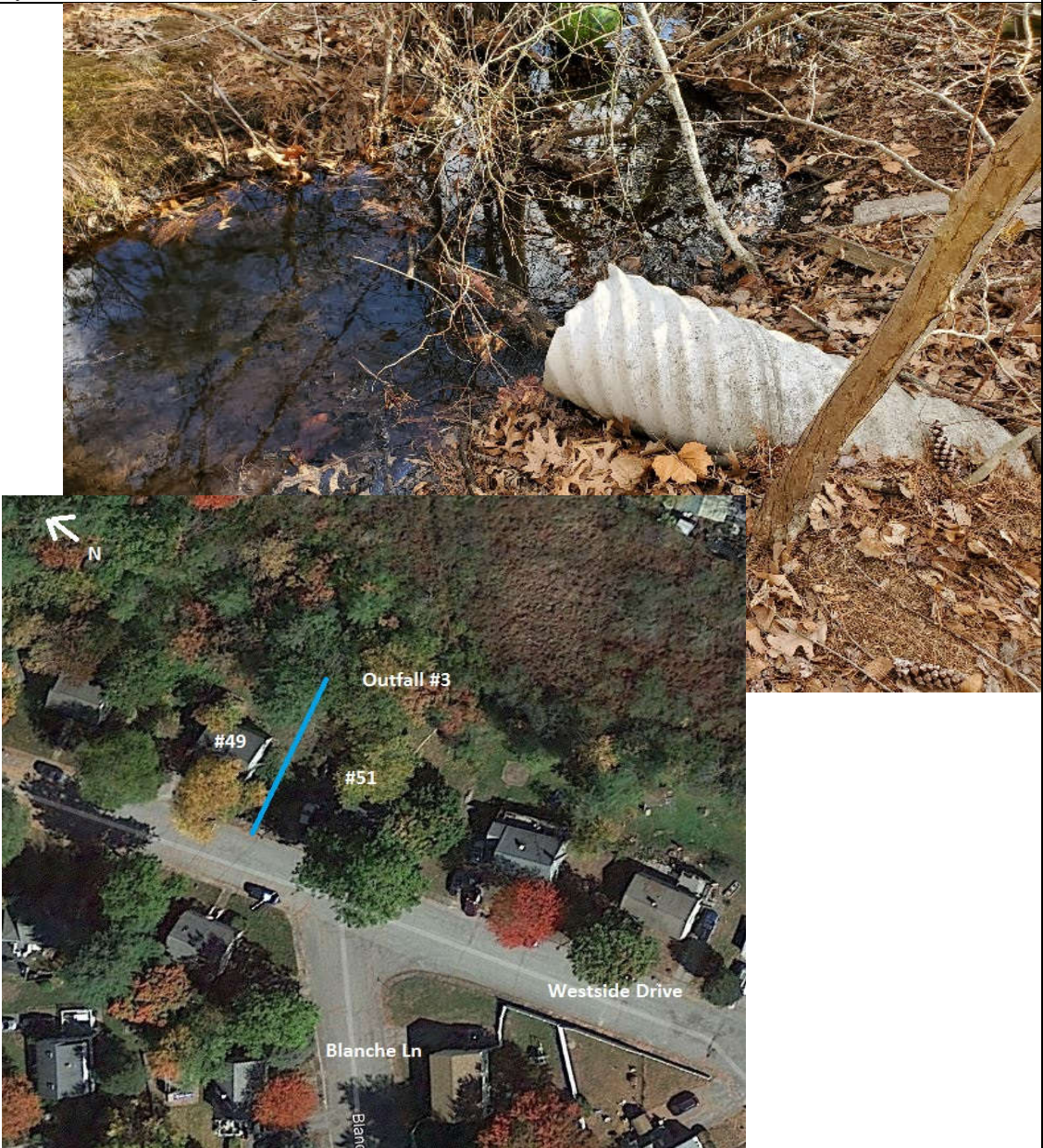
Date Inspected	1/22/2021
2588 Westside Drive Conceptual Improvements, Exeter NH	
Outfall ID	#2
Location	Discharges to the Swale behind 29 Westside Drive
Size	6"
Material	CMP
Condition	No Visible Damage to pipe, no visible blockage

Notes



Approximately 13" of the pipe is exposed and discharges to a swale in the backyard and eventually into the Little River



Storm Drain Outfall Inspection Form

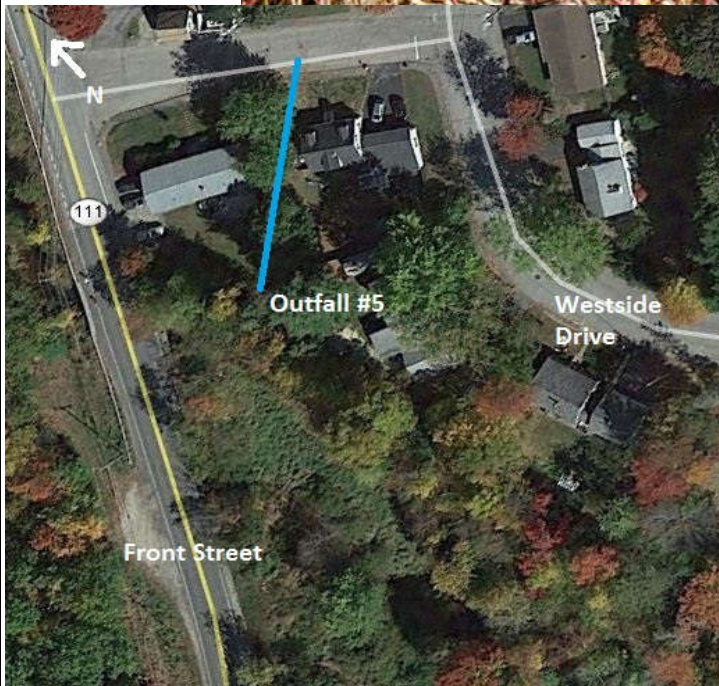
Date Inspected	1/22/2021
2588 Westside Drive Conceptual Improvements, Exeter NH	
Outfall ID	#3
Location	Discharges behind 49 and 51 Westside Drive
Size	15"
Material	CMP
Condition	No blockage visible, Top of outfall has been flattened
Notes	Discharges to small stream behind properties. Water is trickling out of pipe. CB on Westside Drive was mostly covered in leaves and pine needles.
	

Storm Drain Outfall Inspection Form

Date Inspected	1/22/2021
2588 Westside Drive Conceptual Improvements, Exeter NH	
Outfall ID	#4
Location	Discharges behind 59 and 57 Westside Drive
Size	12"
Material	ACP
Condition	No blockage visible, Outfall partially submerged
Notes	Discharges to small stream behind properties. Outfall is approximately 50% submerged within the wetland.
	
	

Storm Drain Outfall Inspection Form

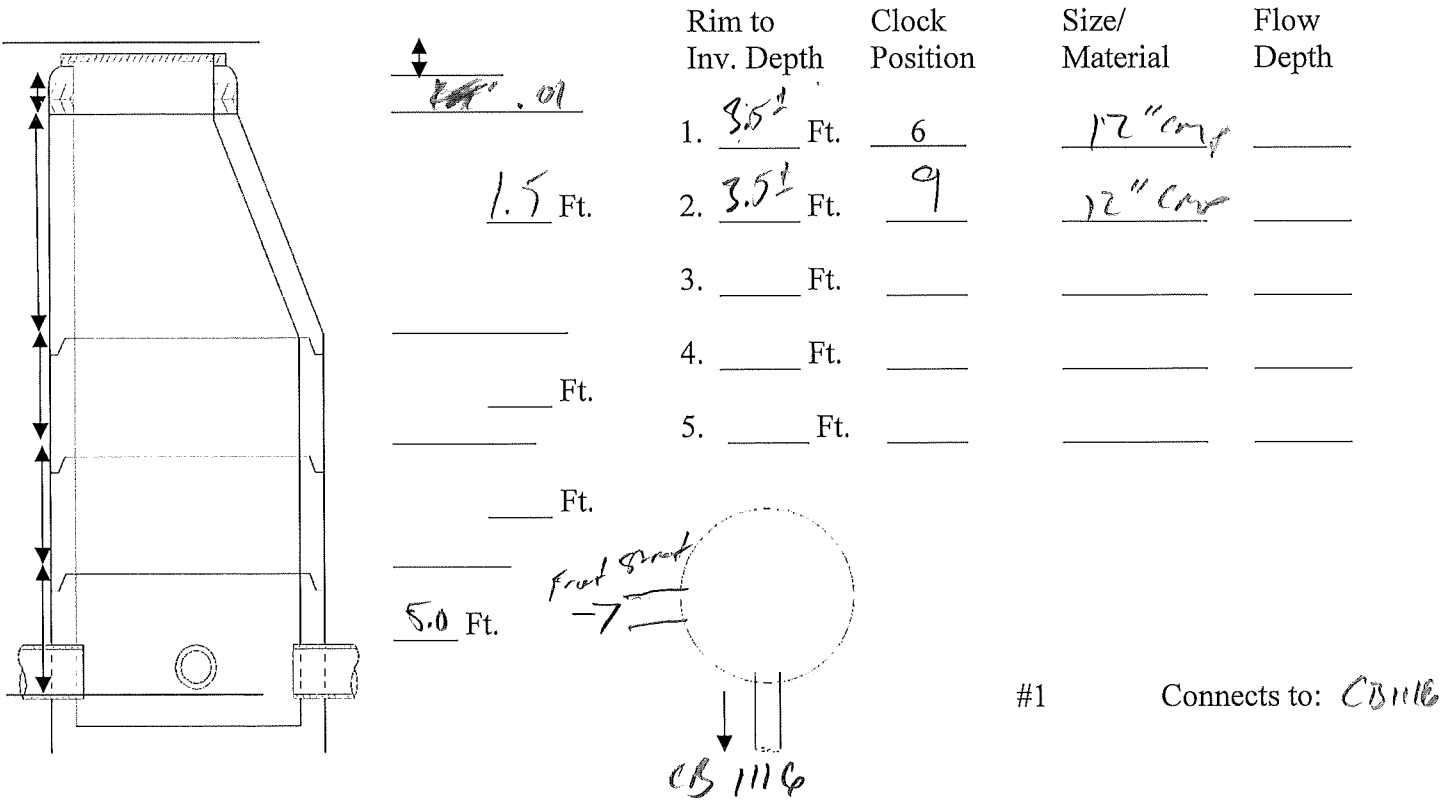
Date Inspected	1/22/2021
2588 Westside Drive Conceptual Improvements, Exeter NH	
Outfall ID	#5
Location	Discharges behind 1 Westside Drive and into the Little River
Size	15"
Material	HDPE
Condition	No blockage or damage visible
Notes	Discharges to the Little River, constant flow coming out of outfall during investigation.



DRAIN STRUCTURE INSPECTION REPORT

Location: Westside North ID No. CB1117
 Dia. 4 Ft. Material: Brick / Precast By: EBW Date: 8/12/21
 Clear Opening: _____ In. Corbel: .01' In. Frame 9 In. Potential: _____ S.F.

Notes: 1 1/2 Precast Top, Brick Base, Lower 2' not visible, Standing water in CB. SEE Survey for actual Inverts



Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

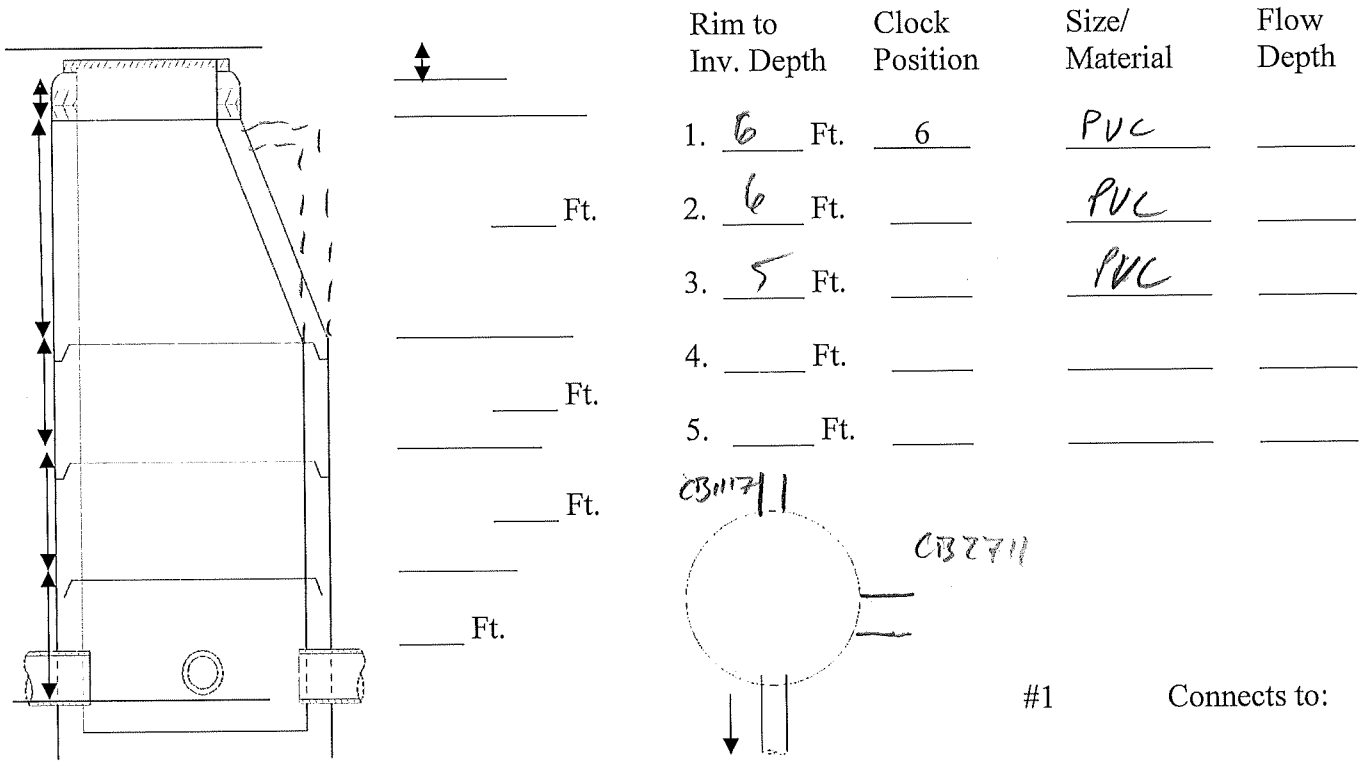
Observations	Material	Condition Rating	Notes
Frame/Cover:	<u>AL</u>	<u>2</u>	<u>Square Grate, 1.8' x 2'</u>
Corbel:	<u>AL</u>	<u>4</u>	
Cone/Slab Top		<u>2</u>	
Walls		<u>2</u>	<u>Brick</u>
Invert/Shelf			

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

DRAIN STRUCTURE INSPECTION REPORT

Location: West side + Laperle ID No. CB1116
 Dia. 4 Ft. Material: Precast By: EBN Date: 3/12/21
 Clear Opening: 24 In. ^{Riser} Corbel: 6 In. Frame 9 In. Potential: _____ S.F.
 Notes: Flat Top CB .7' Thick Sediment 7.5' (Top), 8' to Sample
based on flow, Water @ 5.5' from Rim



#1 Connects to:

Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

Observations	Material	Condition Rating	Notes
Frame/Cover:	<u>GS</u>	<u>3</u>	<u>Rusted</u>
Corbel:	<u>Precast</u>	<u>None</u>	
Cone/Slab Top	<u>Precast</u>	<u>2/3</u>	
Walls	<u>Precast</u>	<u>2/1</u>	
Invert/Shelf	<u>Precast</u>		

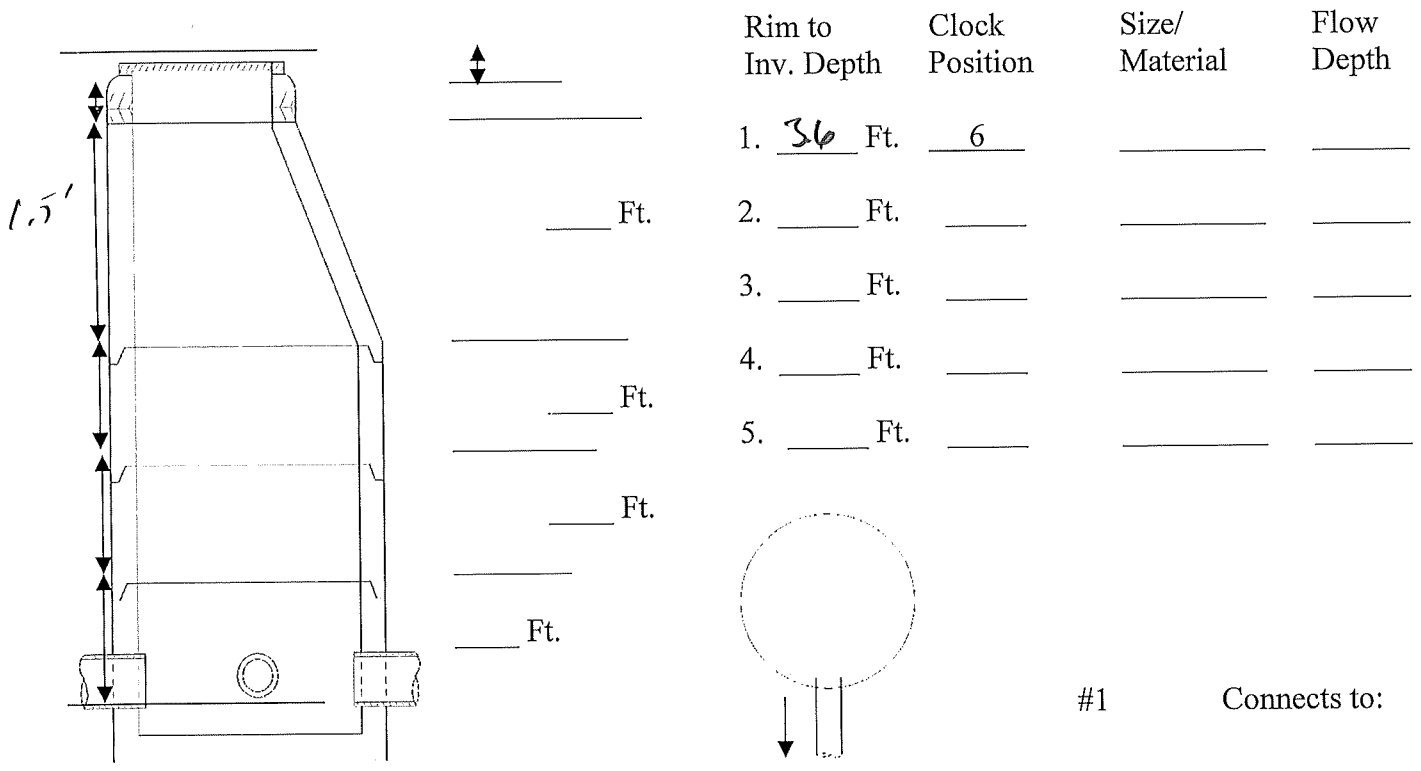
Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

DRAIN STRUCTURE INSPECTION REPORT

Location: Laperte ID No. CB 2711
 Dia. _____ Ft. Material: Precast By: EBA Date: _____
 Clear Opening: _____ In. Corbel: .4' In. Frame .7' In. Potential: _____ S.F.

Notes: 1' Riser w/ Brick walls and possible cut in place
Setback @ 8', Survey @ 9.5 not found



Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

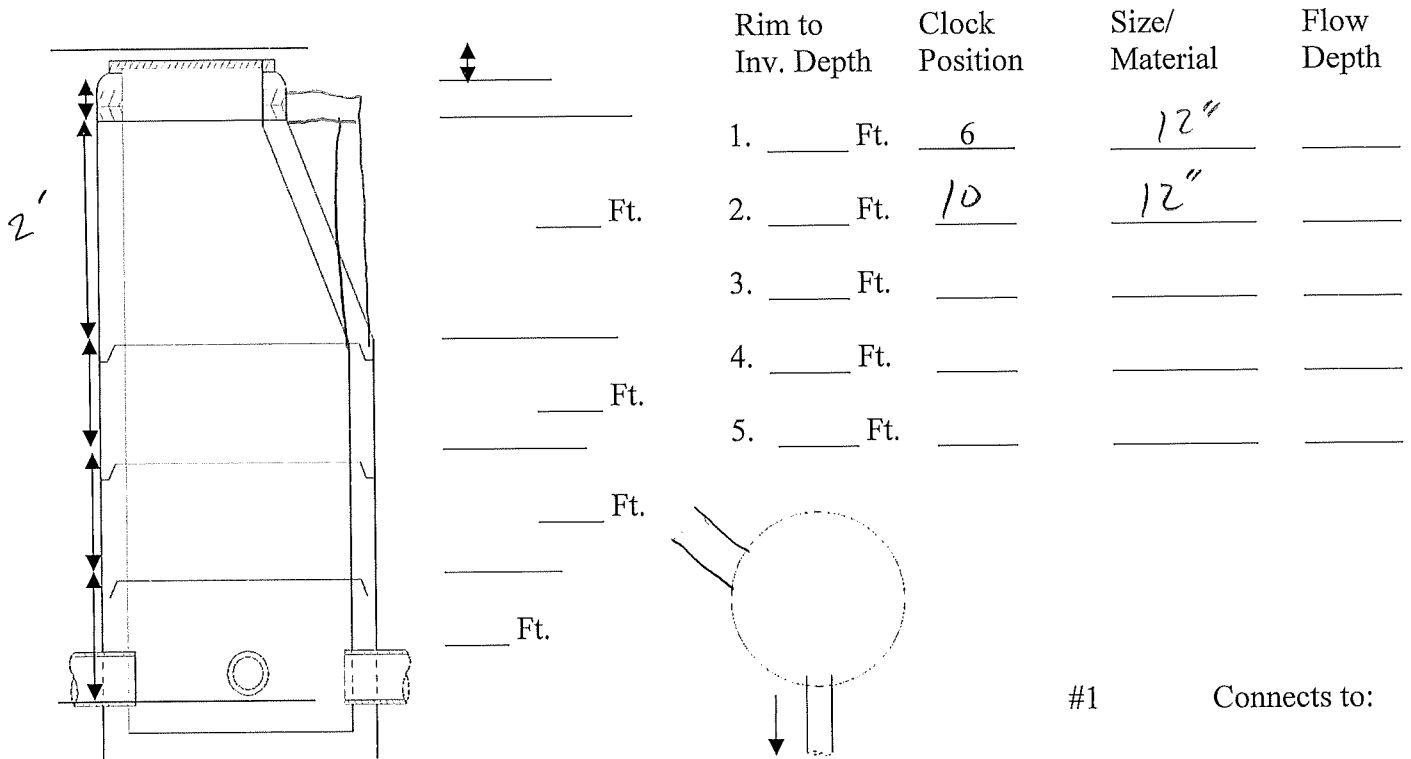
Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>3</u>	
Corbel:		<u>4</u>	<u>Brick</u>
Cone/Slab Top		<u>4</u>	<u>Aggregate Visible + Missing, Cracking</u>
Walls			
Invert/Shelf			

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

DRAIN STRUCTURE INSPECTION REPORT

Location: Westside ID No. 1180
 Dia. 4 Ft. Material: Precast By: EBW Date: _____
 Clear Opening: 24 In. ^{Riser} Corbel: .5 In. Frame 4 In. Potential: _____ S.F.
 Notes: Flat Top, Water level @ 6.6', 9' solid bottom, 2.5' sup



Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

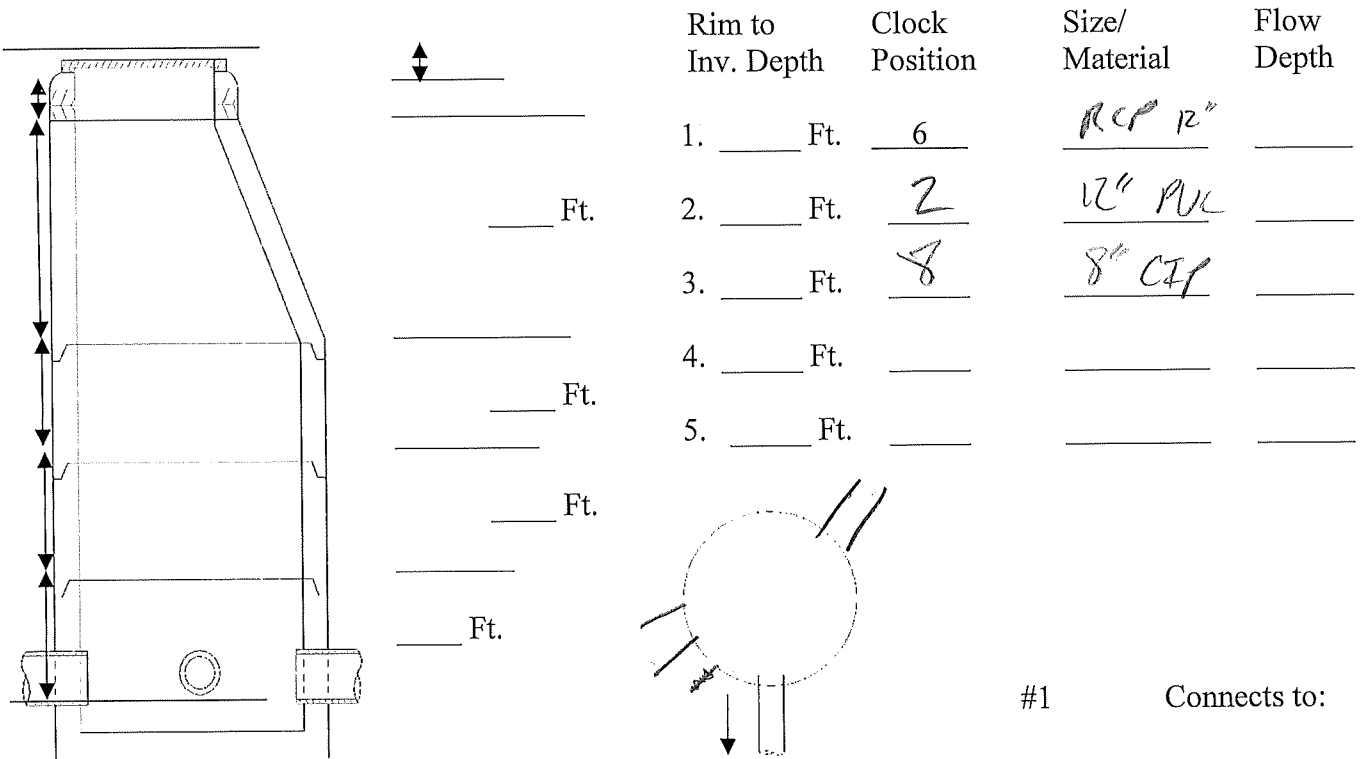
Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>2</u>	
Corbel:		<u>None</u>	
Cone/Slab Top		<u>2</u>	
Walls		<u>2</u>	
Invert/Shelf			

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

DRAIN STRUCTURE INSPECTION REPORT

Location: Westside & Front Street ID No. 1191
 Dia. 4 Ft. Material: Pre cast By: EBW Date: 3/12/21
 Clear Opening: 24 In. Corbel: In. Frame 8 In. Potential: S.F.
 Notes: Flat Top, Water @ 6.3', sediment @ 8' hard bottom



Infiltration: None observed Est. GPM Location: H₂S pH

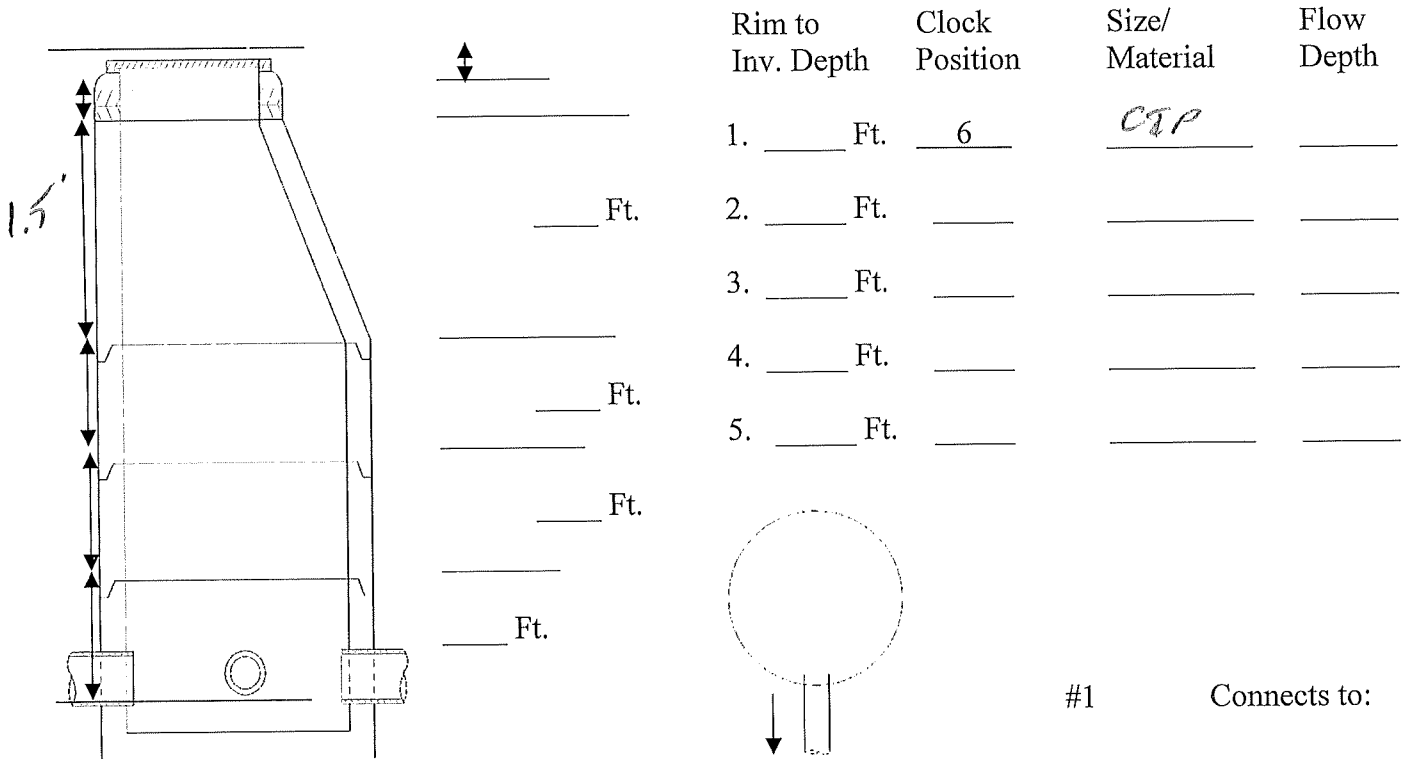
Observations	Material	Condition Rating	Notes
Frame/Cover:	<u>CI</u>	<u>2</u>	
Corbel:	<u>Concrete</u>	<u>4</u>	<u>Exposed stone</u>
Cone/Slab Top <u>flat</u>			
Walls		<u>4</u>	<u>Missing pieces of wall</u>
Invert/Shelf			

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

DRAIN STRUCTURE INSPECTION REPORT

Location: Summer & Westside Drive ID No. 1618
 Dia. 4 Ft. Material: Precast By: EBW Date: _____
 Clear Opening: 24 In. Corbel: 6 In. Frame 9 In. Potential: _____ S.F.
 Notes: Water @ 3.5', 6" to sediment, 6.8' to ramp



Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

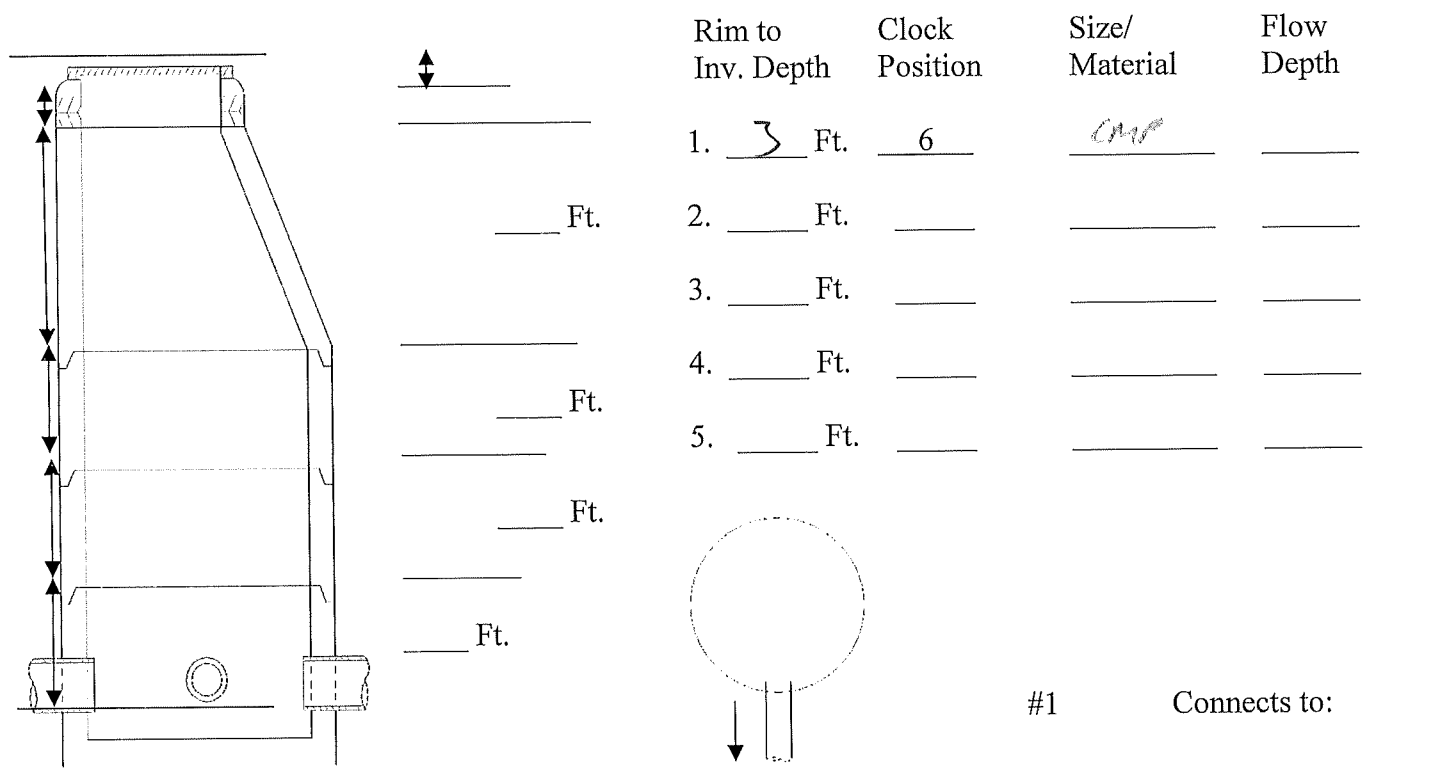
Observations	Material	Condition Rating	Notes
Frame/Cover:	<u>CR</u>	<u>2</u>	
Corbel:	<u>Brick</u>	<u>3</u>	<u>Missing bricks</u>
Cone/Slab Top		<u>3</u>	<u>Missing Aggregate</u>
Walls	<u>PC</u>	<u>3</u>	<u>Aggregate Visible</u>
Invert/Shelf			

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

DRAIN STRUCTURE INSPECTION REPORT

Location: Blake + Westsk Ave ID No. 2022
 Dia. 2 Ft. Material: _____ By: ECN Date: _____
 Clear Opening: _____ In. Corbel: 6 In. Frame .3' In. Potential: _____ S.F.
 Notes: 2' Propped Brick cor, Bottom @ 4' ; slant. Poor
Condition



Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

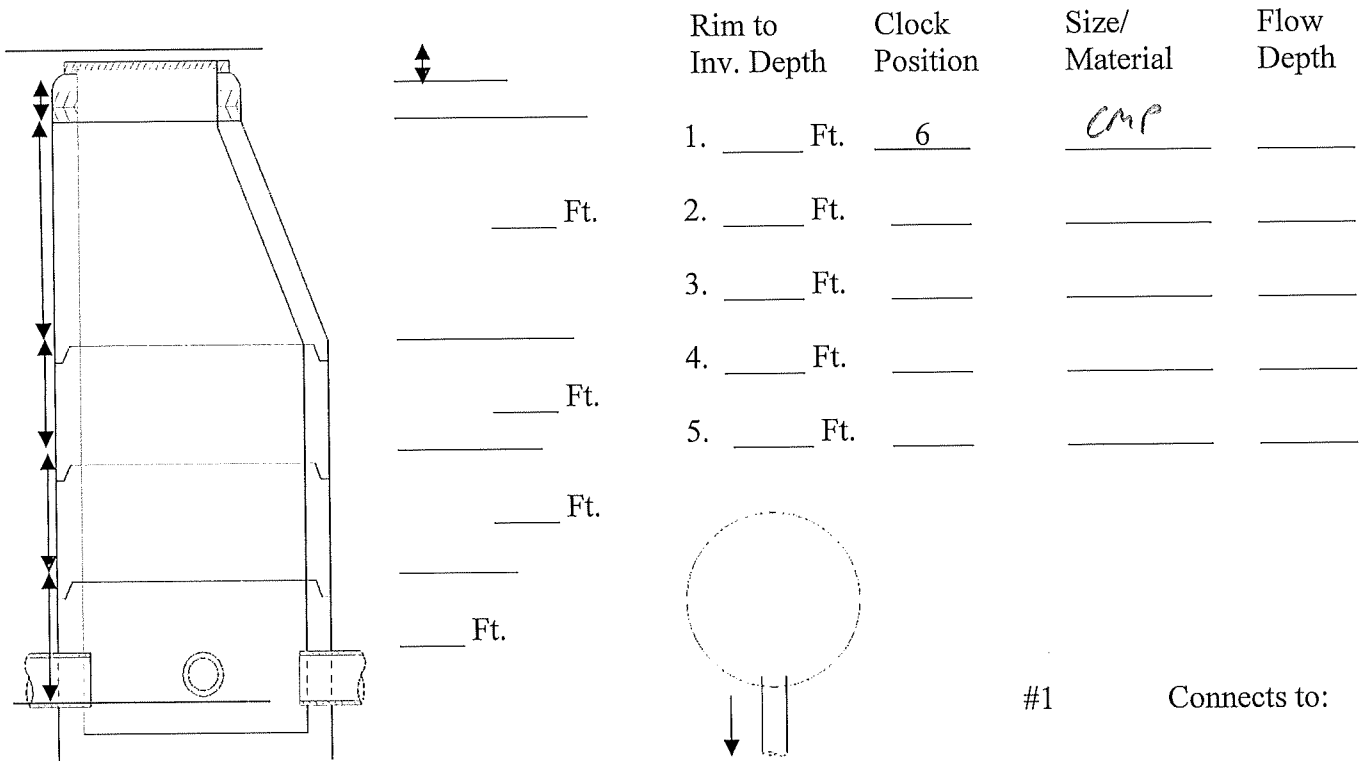
Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>3</u>	
Corbel:	<u>Brick</u>	<u>3/4</u>	
Cone/Slab Top			
Walls		<u>1</u>	
Invert/Shelf			

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

DRAIN STRUCTURE INSPECTION REPORT

Location: Westside North + Blanche ID No. 2928
 Dia. 4 Ft. Material: Precast By: ECN Date: _____
 Clear Opening: _____ In. Corbel: .5 In. Frame 4 In. Potential: _____ S.F.
 Notes: 2' Deep Inlet, Water @ 3', 4.2' to bottom



Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

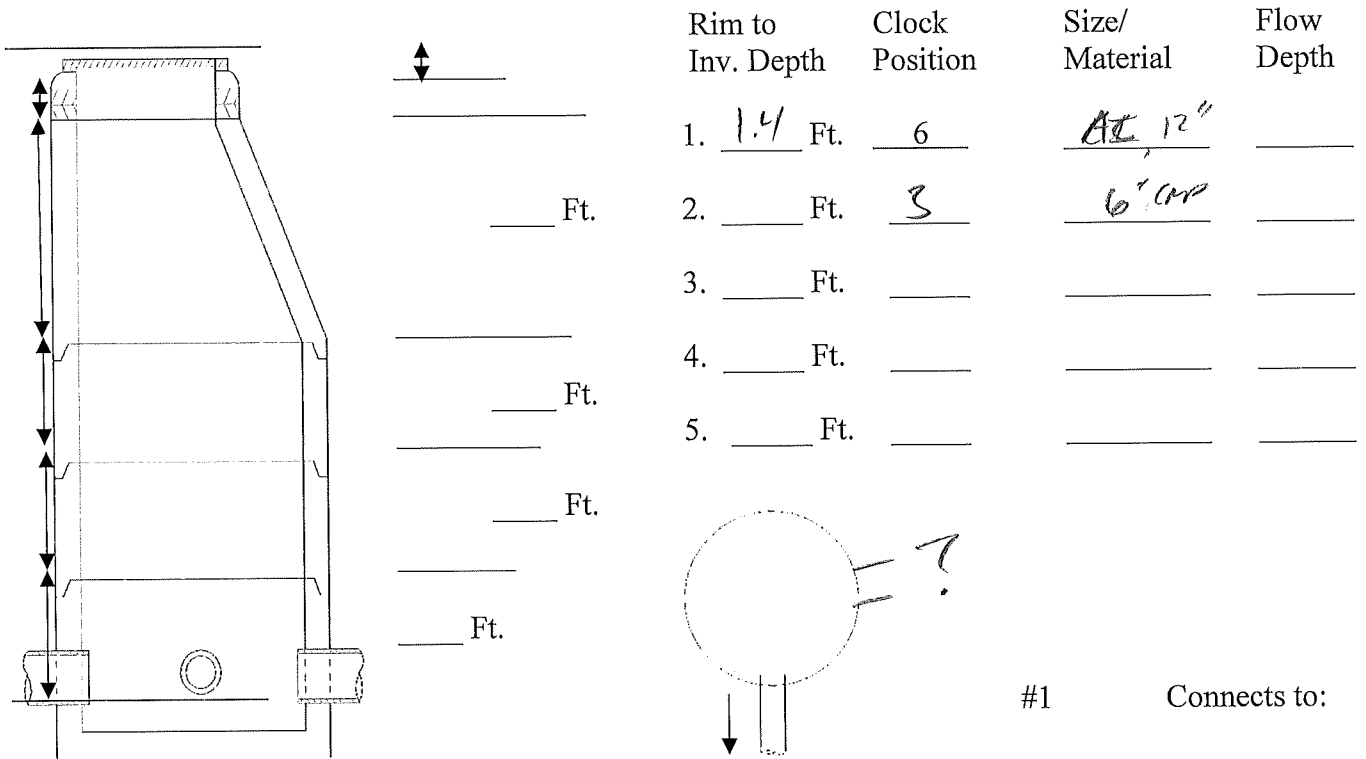
Observations	Material	Condition Rating	Notes
Frame/Cover:		<u>3</u>	
Corbel:		<u>4</u>	
Cone/Slab Top			
Walls		<u>3</u>	
Invert/Shelf			

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

DRAIN STRUCTURE INSPECTION REPORT

Location: Westside A. ID No. 2588
 Dia. 4 Ft. Material: Precast By: EBN Date: _____
 Clear Opening: 2 In. Corbel: _____ In. Frame _____ In. Potential: _____ S.F.
 Notes: 2' Prop Inlet, 4' To bottom



Infiltration: None observed Est. GPM _____ Location: _____ H₂S _____ pH _____

Observations	Material	Condition Rating	Notes
Frame/Cover:	<u>CR</u>	<u>2</u>	
Corbel:		<u>3</u>	
Cone/Slab Top		<u>.</u>	
Walls		<u>4</u>	
Invert/Shelf			

Condition Rating Codes:

1. Good condition – no further action needed
2. Minor defects – no immediate action needed no I/I observed.
3. Minor defects or I/I potential – needs attention or rehabilitation.
4. Significant defects and/or I/I – corrective action should be scheduled in near future.
5. Manhole or connecting pipes in extremely poor condition failure eminent – needs immediate action.

Appendix J
Water AM Excerpt

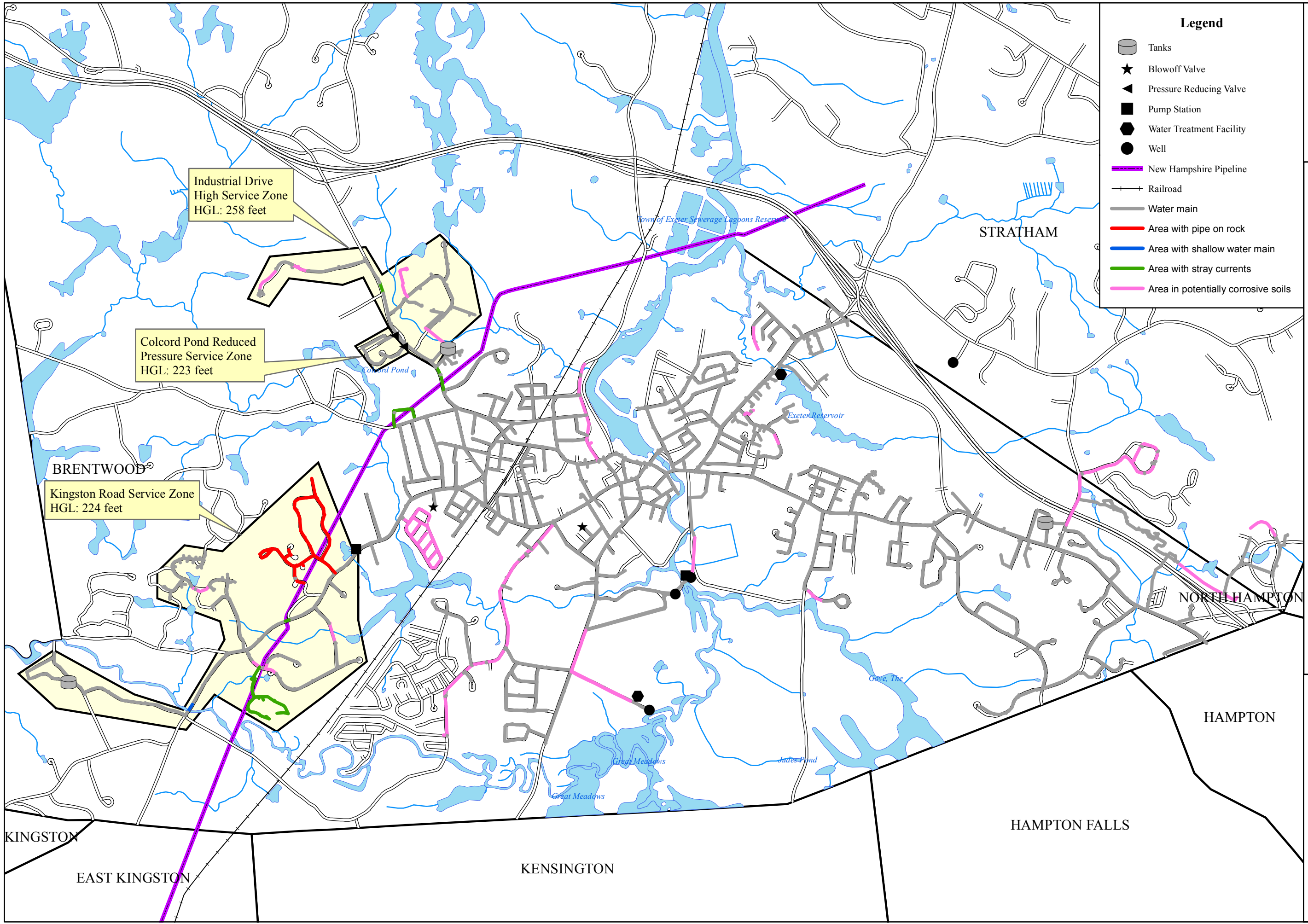
**Public Water System Asset Management Plan
Exeter, New Hampshire**



Prepared by:



May 2015



Legend














-  Tanks
-  Blowoff Valve
-  Pressure Reducing Valve
-  Pump Station
-  Water Treatment Facility
-  Well
-  New Hampshire Pipeline
-  Railroad
-  Water main
-  Area with pipe on rock
-  Area with shallow water main
-  Area with stray currents
-  Area in potentially corrosive soils

Figure No.

4-6

Potentially Corrosive Soils
 Asset Management Plan
 Town of Exeter, New Hampshire



TATA & HOWARD

Date: May 2015 Scale: 1:26,000

Appendix K
FEMA Flood Map 2020

National Flood Hazard Layer FIRMette



70°58'13"W 42°58'43"N



Legend

- SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
- SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE)
Zone A, V, A99
 - With BFE or Depth
Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
Zone X
 - Future Conditions 1% Annual Chance Flood Hazard
Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes, Zone X
 - Area with Flood Risk due to Levee
Zone D
- OTHER AREAS**
- NO SCREEN Area of Minimal Flood Hazard
Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard
Zone D
- GENERAL STRUCTURES**
- Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
- OTHER FEATURES**
- 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
 - 17.5 Coastal Transect
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
- MAP PANELS**
- Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/23/2020 at 9:49 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

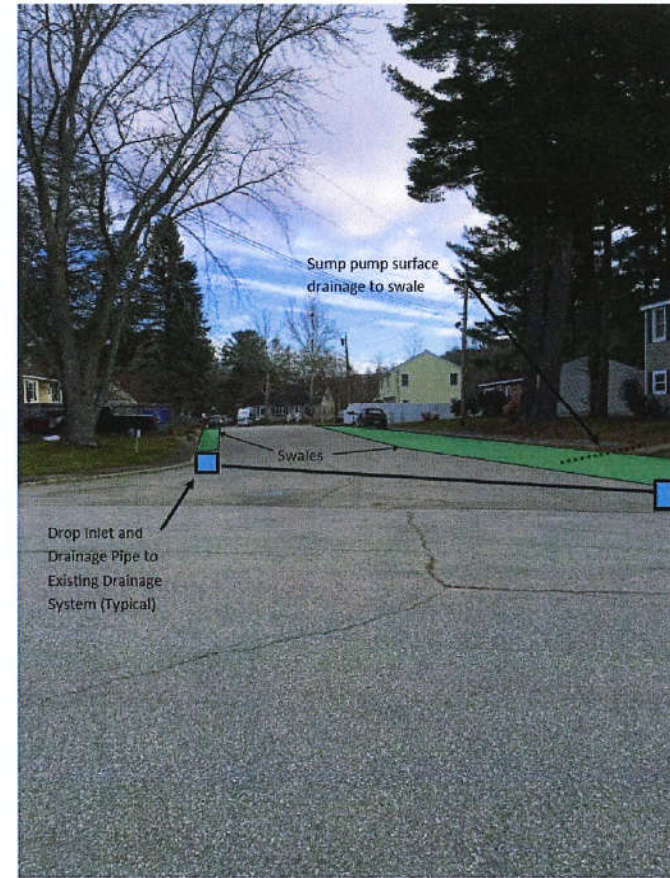
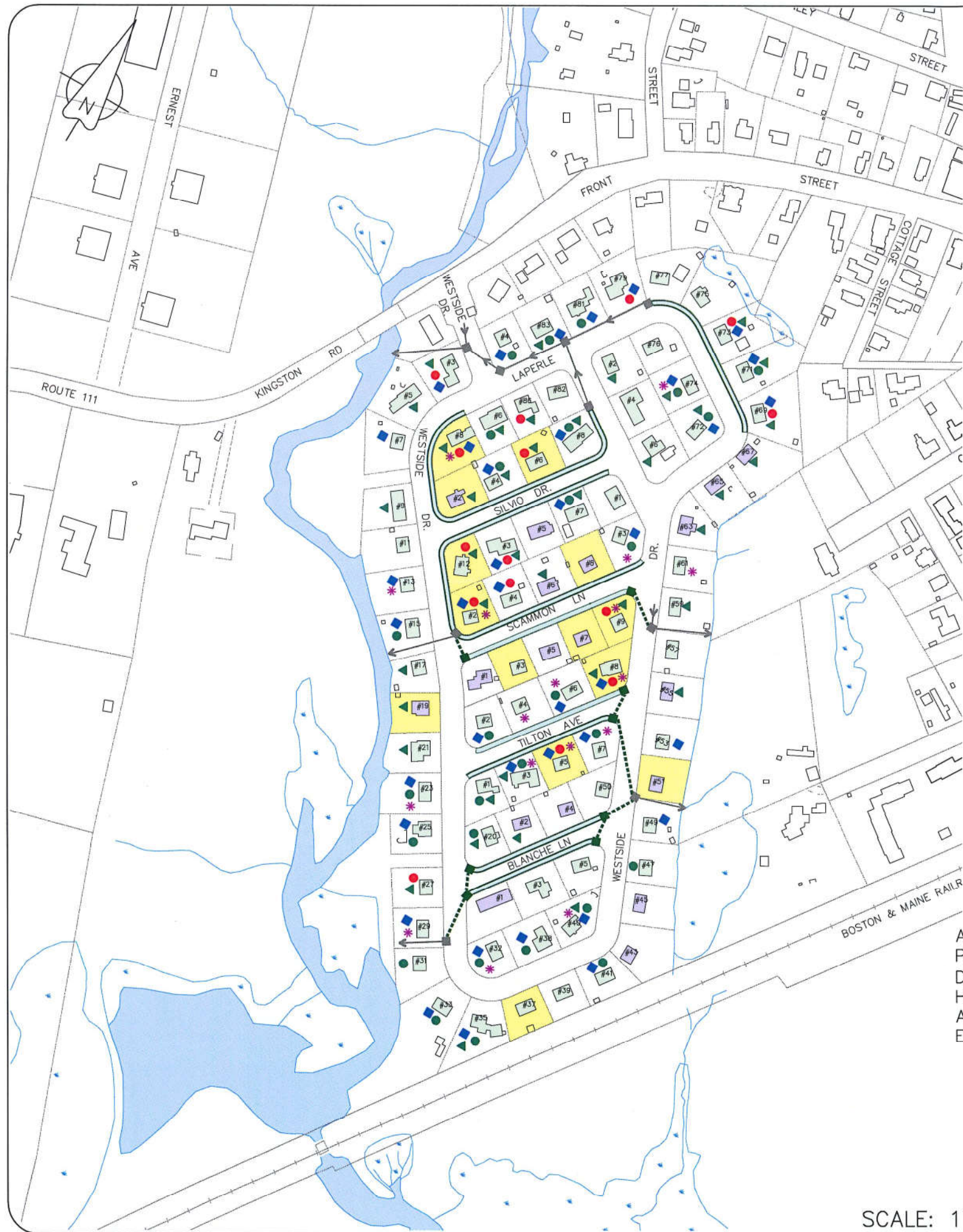
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix L
FEMA 2018 Letter of Map Revision

Document Password Protected
Provided Under Separate Cover

Appendix M
2017 LTCP Excerpt

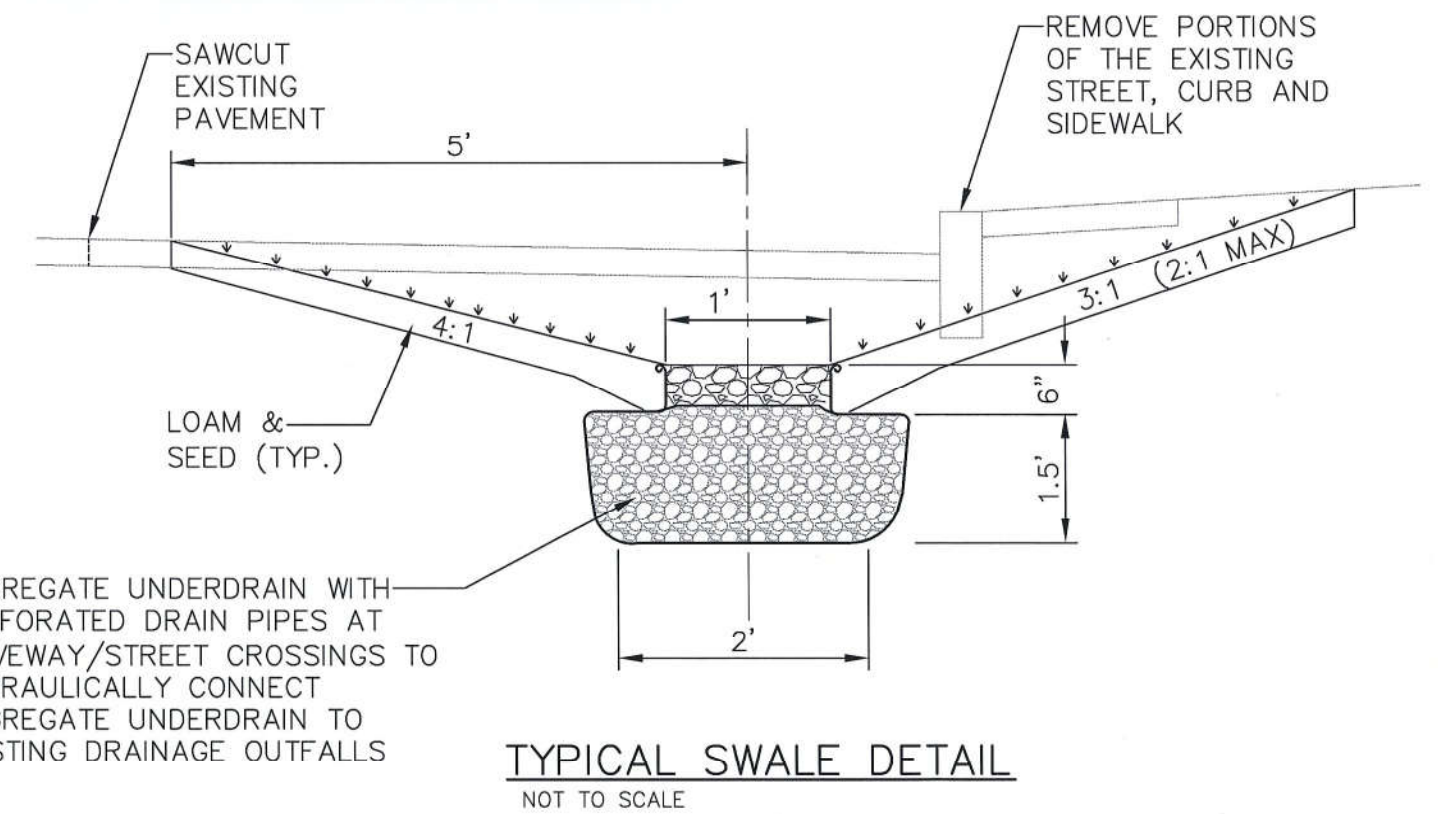
H:\Real Numbers\Exeter\2088 - 2016 CSO LTCP\Drawings\2088 Alt 1 fig 3.6.dwg, Alt 1, 1/11/2017 2:51:03 PM, rmg



LEGEND:

- HOUSE SURVEY COMPLETE*
- DENIED ACCESS*
- SUMP PUMP DISCHARGE SEWER OR UNKNOWN*
- SUMP PUMP DISCHARGE SURFACE*
- EXTERIOR DRAIN TO SEWER*
- EXTERIOR DRAIN TO SURFACE/STORM DRAIN*
- BASEMENT FLOODING*
- BASEMENT DRAINS*
- REPORTED ILLICIT CORRECTION (2015 COMPLIANCE RESPONSE)
- EXISTING CATCH BASIN AND DRAIN PIPE (APPROX.)
- CONCEPTUAL PROPOSED SWALE
- CONCEPTUAL PROPOSED DROP INLET AND UNDERGROUND DRAINAGE PIPE

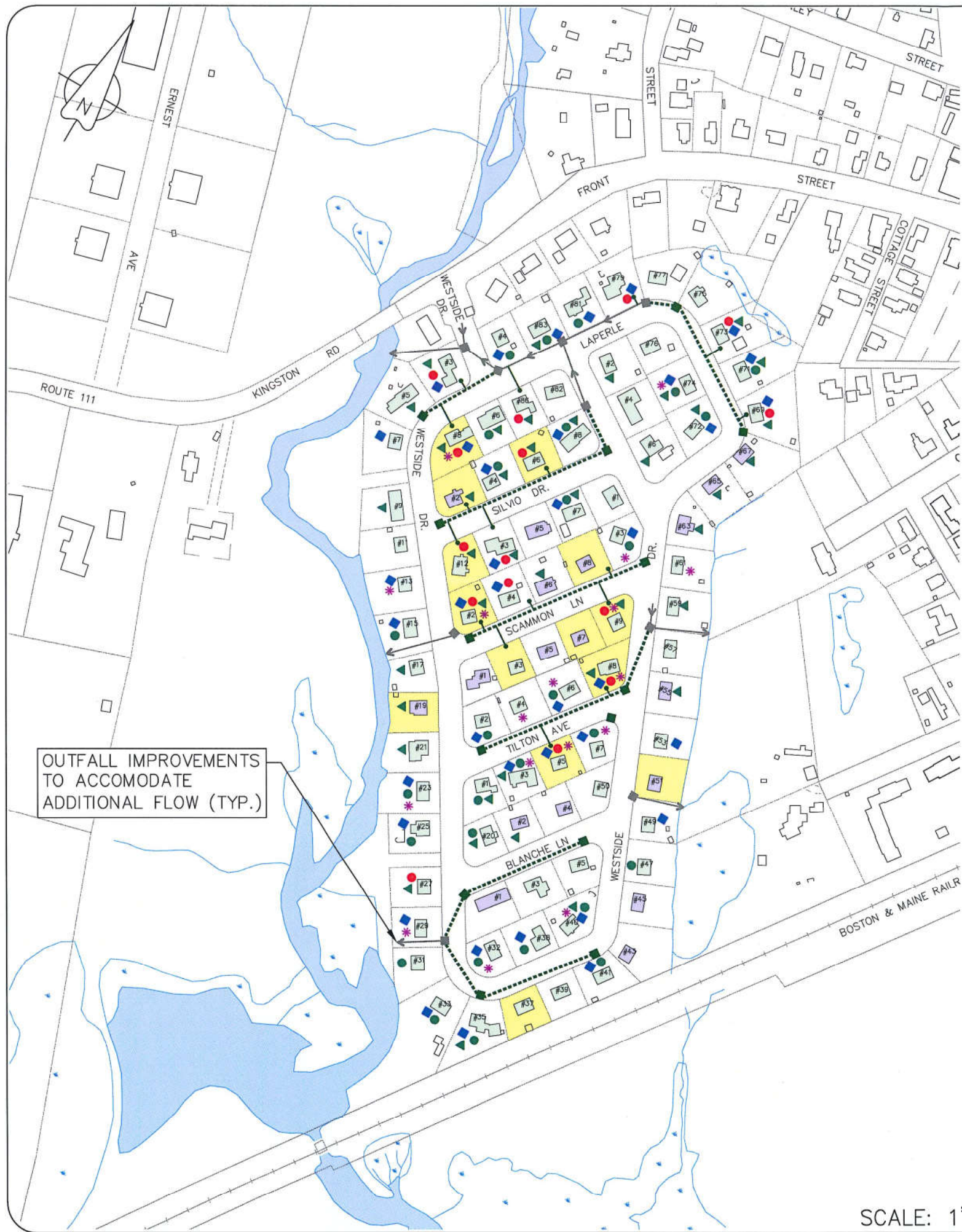
* 2010 HOUSE INSPECTION



SCALE: 1"=250'

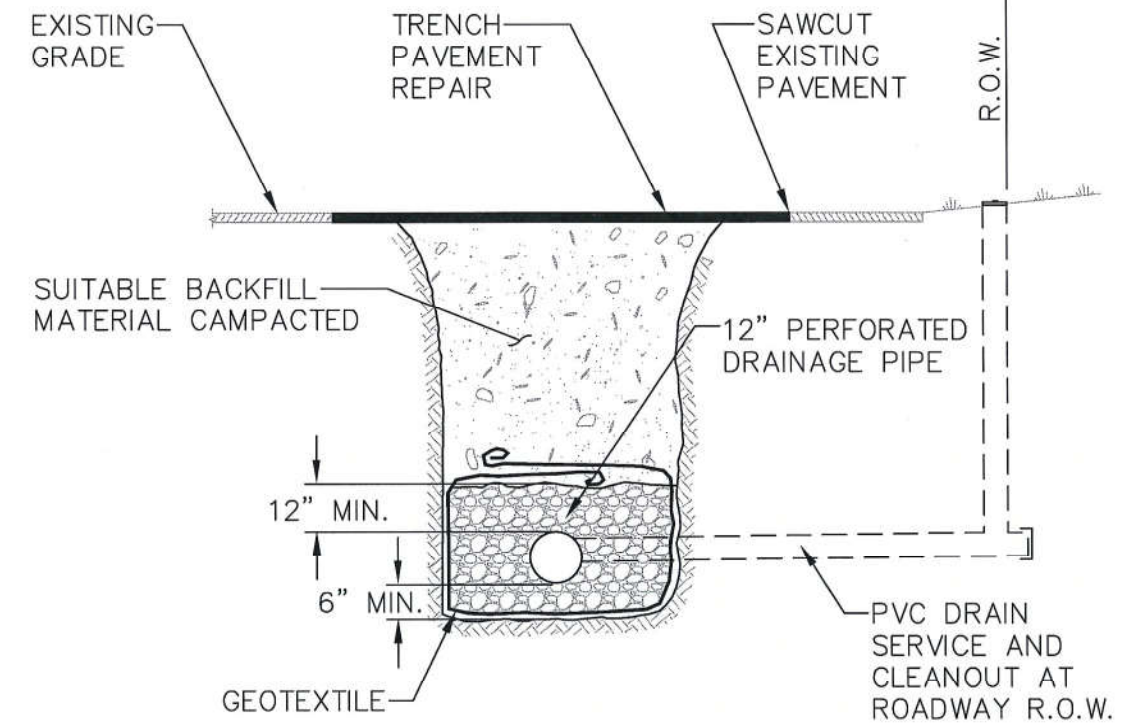
DATE 1/13/2017	UNDERWOOD engineers	Alt. #1 - Roadside Swales Westside Drive Pilot Area CSO LTCP Update Exeter, New Hampshire	FIGURE 3.6
PROJECT 1936/2088	25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733		

H:\Real Numbers\Exeter\2088 - 2016 CSO LTCP\Drawings\2088 Alt 2 fig 3.7.dwg, Alt 2, 1/11/2017 3:03:39 PM, rmg



- LEGEND:**
- HOUSE SURVEY COMPLETE*
 - DENIED ACCESS*
 - SUMP PUMP DISCHARGE SEWER OR UNKNOWN*
 - SUMP PUMP DISCHARGE SURFACE*
 - EXTERIOR DRAIN TO SEWER*
 - EXTERIOR DRAIN TO SURFACE/STORM DRAIN*
 - BASEMENT FLOODING*
 - BASEMENT DRAINS*
 - REPORTED ILLICIT CORRECTION (2015 COMPLIANCE RESPONSE)
 - EXISTING CATCH BASIN AND DRAIN PIPE (APPROX.)
 - PROPOSED 12" PERFORATED UNDERDRAIN PIPE AND DRAIN SERVICE

* 2010 HOUSE INSPECTION



TRENCH SECTION - STORM DRAIN
NOT TO SCALE

SCALE: 1"=250'

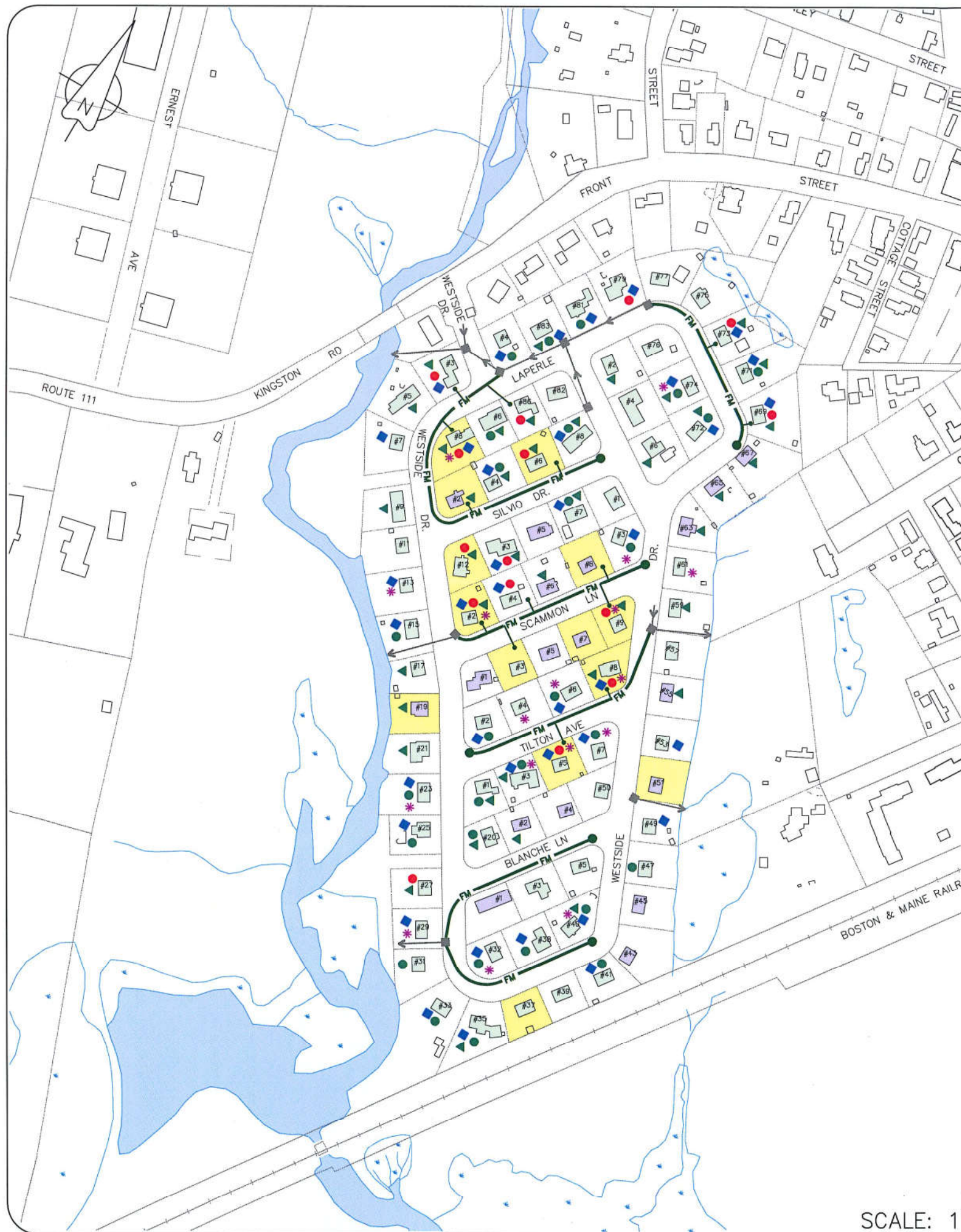
DATE
1/13/2017
PROJECT
1936/2088

UNDERWOOD
engineers
25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

Alt. #2 - Perforated Underdrain
Westside Drive Pilot Area
CSO LTCP Update
Exeter, New Hampshire

FIGURE
3.7

H:\Real Numbers\Exeter\2088 - 2016 CSO LTCP\Drawings\2088 Alt 3 fig 3.8.dwg, Alt 3, 1/11/2017 3:08:21 PM, rmg



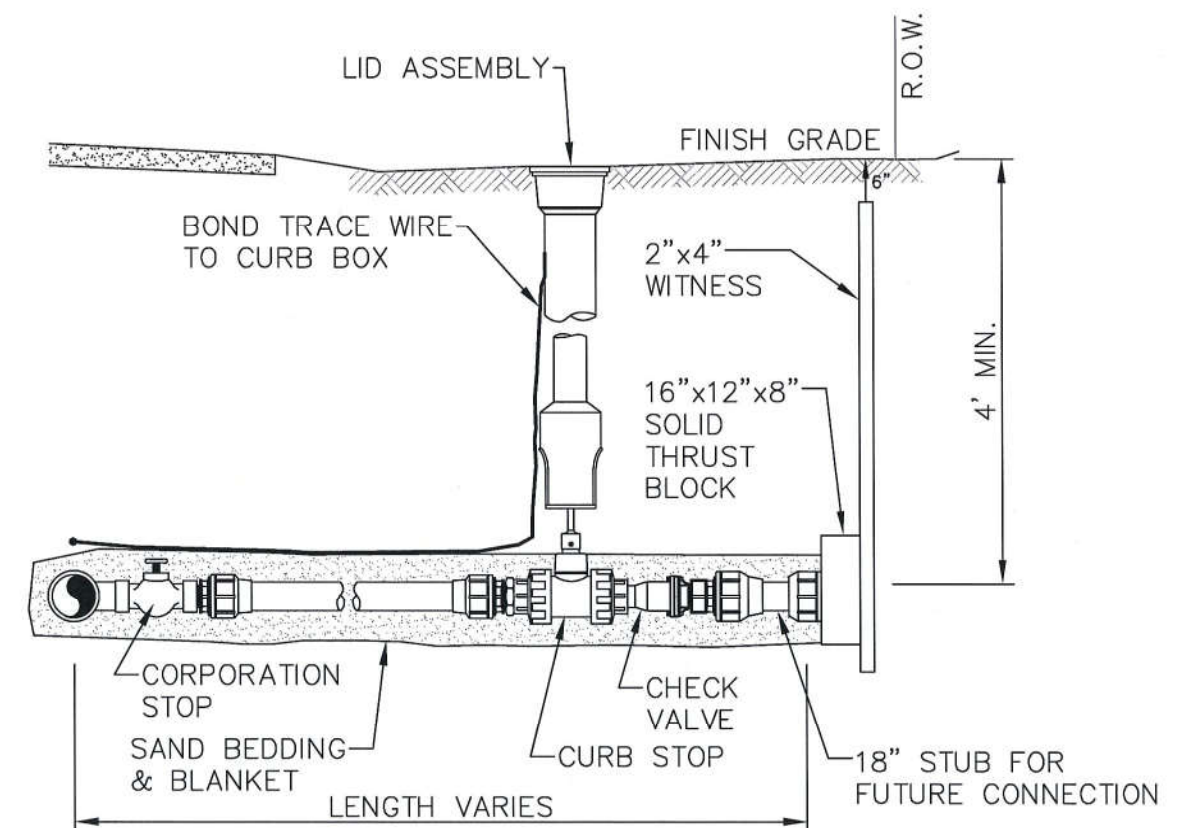
NOTE:

HOMEOWNERS WOULD BE RESPONSIBLE FOR INSTALLATION OF LOW PRESSURE SYSTEM (LPS) SUMP PUMP, SUMP PUMP DISCHARGE PIPING ON PRIVATE PROPERTY, AND CONNECTION OF THE SUMP PUMP DISCHARGE PIPING TO THE SERVICE LATERAL STUB AT THE R.O.W.

LEGEND:

- HOUSE SURVEY COMPLETE*
- DENIED ACCESS*
- SUMP PUMP DISCHARGE SEWER OR UNKNOWN*
- SUMP PUMP DISCHARGE SURFACE*
- EXTERIOR DRAIN TO SEWER*
- EXTERIOR DRAIN TO SURFACE/STORM DRAIN*
- BASEMENT FLOODING*
- BASEMENT DRAINS*
- REPORTED ILLICIT CORRECTION (2015 COMPLIANCE RESPONSE)
- EXISTING CATCH BASIN AND DRAIN PIPE (APPROX.)
- PROPOSED SUMP PUMP FORCE MAIN AND DRAIN SERVICE CURB STOP
- PROPOSED CLEANOUT MANHOLE

* 2010 HOUSE INSPECTION



TYPICAL SERVICE CONNECTION
NOT TO SCALE

SCALE: 1"=250'

DATE 1/13/2017	UNDERWOOD engineers	Alt. #3 - Sump Pump F.M. Westside Drive Pilot Area	FIGURE 3.8
PROJECT 1936/2088	25 Vaughan Mall, Portsmouth, N.H. 03801 Tel. 603-436-6192 Fax. 603-431-4733	CSO LTCP Update Exeter, New Hampshire	

Appendix N
Conceptual Cost Opinion

2588 - Westside Drive Conceptual Plan
 Exeter, NH
 23-May-22

Conceptual Engineer's Opinion of Probable Cost - Alternative #1

Base	QTY	Unit	Unit Price	Amount
Full Width Pavement Reclamation (28' Wide)	17,000	SY	\$4.00	\$68,000.00
Additional Stone for Road Base Improvements (3")	1,500	CY	\$25.00	\$37,500.00
Remove, Rehandle and Regrade Roadway Subgrade	7	Days	\$9,000.00	\$63,000.00
Strip Existing Pavement and Sidewalks (20' wide)	4,000	CY	\$20.00	\$80,000.00
Unuitables Removal	1	Allow	\$80,000.00	\$80,000.00
Hot Bituminous Pavement (4" Depth x 24' & 28' wide)	3,500	Ton	\$150.00	\$525,000.00
Shoulder Gravels	600	CY	\$40.00	\$24,000.00
Loam and Seed	15,000	SY	\$5.00	\$75,000.00
Concrete Sidewalk (4' Wide)	2,100	SY	\$70.00	\$147,000.00
Curbing	3,800	LF	\$40.00	\$152,000.00
Driveway Improvements/Repaving	500	Ton	\$170.00	\$85,000.00
Drain Service To ROW for Sump Connection	50	EA	\$2,500.00	\$125,000.00
Furnish and Install 6" Perforated Underdrain	1,800	LF	\$50.00	\$90,000.00
Furnish and Install 8" Sump Pump Collectors (Interior Rds)	1,400	LF	\$75.00	\$105,000.00
Furnish and Install 12" Perforated Drain Pipe	1,700	LF	\$80.00	\$136,000.00
Furnish and Install 15" to 24" Perforated Drain Pipe	1,000	LF	\$100.00	\$100,000.00
Furnish and install Drain Structures	35	EA	\$8,000.00	\$280,000.00
Modifications to Existing Structures	4	EA	\$2,000.00	\$8,000.00
Outfall Improvements and Possible Treatment	4	EA	\$10,000.00	\$40,000.00
Utility Allowance	1	Allow	\$10,000.00	\$10,000.00
Private Property Restoration Allowance	1	Allow	\$20,000.00	\$20,000.00
8" Water Main with Poly Wrap or PVC	5,500	LF	\$150.00	\$825,000.00
Temporary Water	1	LS	\$350,000.00	\$350,000.00
Water Services	90	EA	\$3,000.00	\$270,000.00
8" Gate Valves	12	EA	\$4,000.00	\$48,000.00
Hydrant Assemblies	8	EA	\$9,000.00	\$72,000.00
Mobilization, General Conditions and Permit Fees (10%)	1	LS	\$381,550.00	\$381,550.00
SUBTOTAL				\$4,197,050.00
Easement Allowance	1	Allow	\$10,000.00	\$10,000.00
Contingency (20%)	1	LS	\$839,410.00	\$839,410.00
Final Design (7%)	1	LS	\$293,793.50	\$293,793.50
Construction Engineering (13%)	1	LS	\$545,616.50	\$545,616.50
TOTAL				\$5,890,000.00
Escalate to 2022 to 2024 (3.5% per year)		1.035	\$6,300,000.00	

2588 - Westside Drive Conceptual Plan
 Exeter, NH
 23-May-22

Conceptual Engineer's Opinion of Probable Cost - Alternative #2

Base	QTY	Unit	Unit Price	Amount
Full Width Pavement Reclamation (28' Wide)	17,000	SY	\$4.00	\$68,000.00
Additional Stone for Road Base Improvements (3")	1,500	CY	\$25.00	\$37,500.00
Remove, Rehandle and Regrade Roadway Subgrade	7	Days	\$9,000.00	\$63,000.00
Strip Existing Pavement and Sidewalks (20' wide)	4,000	CY	\$20.00	\$80,000.00
Unuitables Removal	1	Allow	\$80,000.00	\$80,000.00
Hot Bituminous Pavement (4" Depth x 28' wide)	3,800	Ton	\$150.00	\$570,000.00
Shoulder Gravels	600	CY	\$40.00	\$24,000.00
Loam and Seed	15,000	SY	\$5.00	\$75,000.00
Concrete Sidewalk (4' Wide)	300	SY	\$70.00	\$21,000.00
Curbing	600	LF	\$40.00	\$24,000.00
Driveway Improvements/Repaving	500	Ton	\$170.00	\$85,000.00
Drain Service To ROW for Sump Connection	50	EA	\$2,500.00	\$125,000.00
Furnish and Install 6" Perforated Underdrain	1,800	LF	\$50.00	\$90,000.00
Furnish and Install 8" Sump Pump Collectors (Interior Rds)	1,400	LF	\$75.00	\$105,000.00
Furnish and Install 12" Perforated Drain Pipe	1,700	LF	\$80.00	\$136,000.00
Furnish and Install 15" to 24" Perforated Drain Pipe	1,000	LF	\$100.00	\$100,000.00
Furnish and install Drain Structures	35	EA	\$8,000.00	\$280,000.00
Modifications to Existing Structures	4	EA	\$2,000.00	\$8,000.00
Outfall Improvements and Possible Treatment	4	EA	\$10,000.00	\$40,000.00
Utility Allowance	1	Allow	\$10,000.00	\$10,000.00
Private Property Restoration Allowance	1	Allow	\$20,000.00	\$20,000.00
8" Water Main with Poly Wrap or PVC	5,500	LF	\$150.00	\$825,000.00
Temporary Water	1	LS	\$350,000.00	\$350,000.00
Water Services	90	EA	\$3,000.00	\$270,000.00
8" Gate Valves	12	EA	\$4,000.00	\$48,000.00
Hydrant Assemblies	8	EA	\$9,000.00	\$72,000.00
Mobilization, General Conditions and Permit Fees (10%)	1	LS	\$360,650.00	\$360,650.00
SUBTOTAL				\$3,967,150.00
Easement Allowance	1	Allow	\$10,000.00	\$10,000.00
Contingency (20%)	1	LS	\$793,430.00	\$793,430.00
Final Design (7%)	1	LS	\$277,700.50	\$277,700.50
Construction Engineering (13%)	1	LS	\$515,729.50	\$515,729.50
TOTAL				\$5,560,000.00
Escalate to 2022 to 2024 (3.5% per year)	1.035			\$6,000,000.00