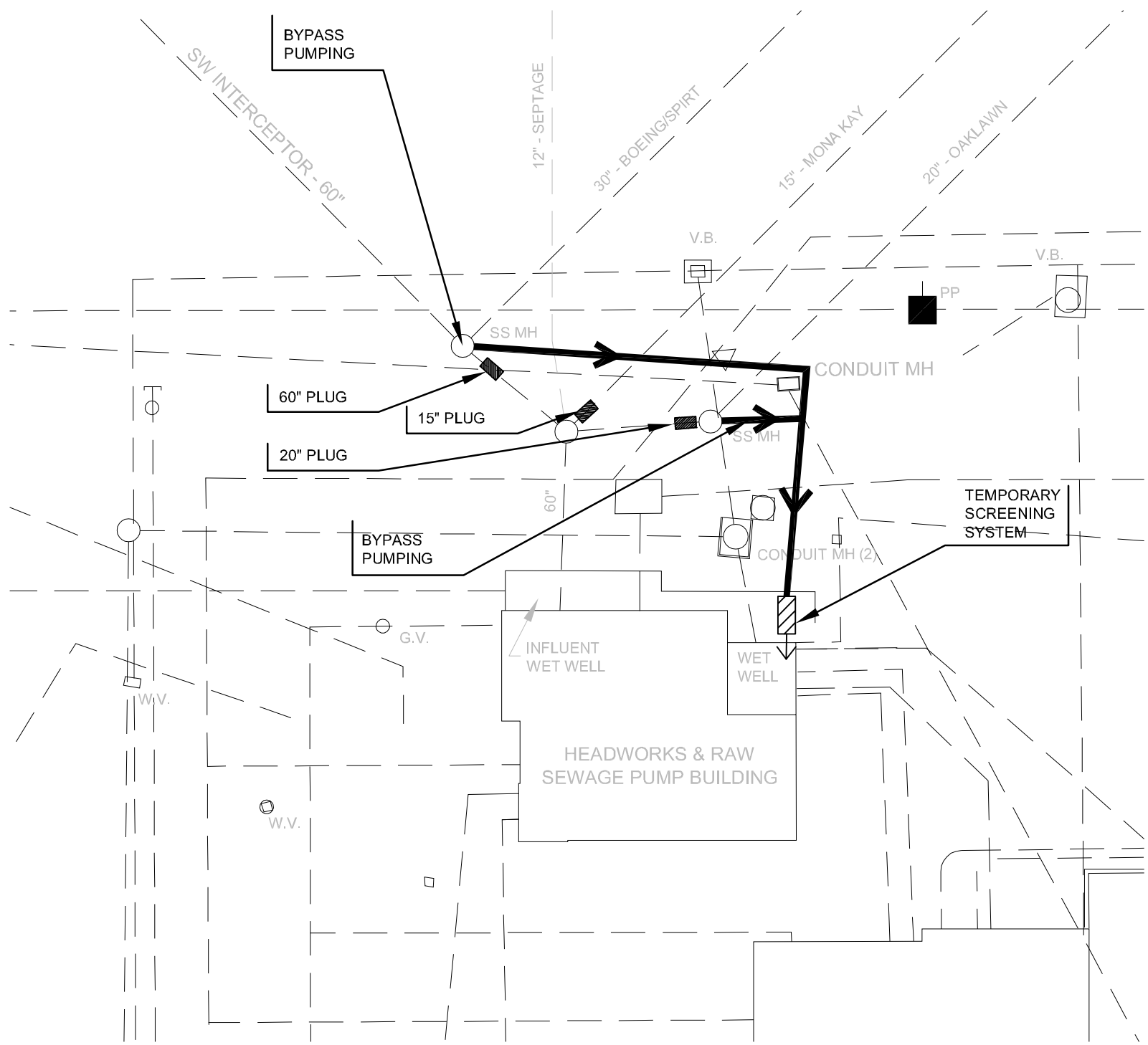
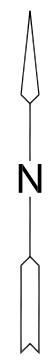
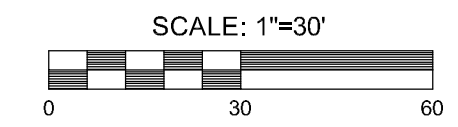


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BY-PASS LAYOUT		
PROJECT NO.	1401010275	
DATE	07/31/14	
SCALE	N.T.S.	
DESIGNED	DRAWN	CHECKED
KJS	SLF	KJS
ISSUED FOR CONSTRUCTION	NO.	DATE
SHEET NO.		
2 OF 19		

NOTES:

- CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH ENGINEER AND OWNER.
- BYPASS PUMPING ROUTING IS SHOWN AS A GUIDE ONLY. CONTRACTOR WILL SUBMIT A COMPLETE PLAN FOR BYPASS PUMPING/PIPING LAYOUT TO THE ENGINEER FOR APPROVAL.
- BYPASS PUMPING WILL HAVE TO BE DELIVERED TO THE RAW SEWAGE PUMP STATION WET WELL VIA A TEMPORARY SCREENING /STRAINER SYSTEM. CONCEPT BYPASS PUMPING ROUTING SHOWN.
- BYPASS PUMPING WILL BE REQUIRED FOR REHAB OF THE INFLUENT WET WELL. BYPASS PUMPING CAPACITY SHALL BE VARIABLE UP TO A MAXIMUM RATE OF **18 MGD** FROM UPSTREAM OF THE 60" PLUG, **2 MGD** UPSTREAM OF THE 20" PLUG, AND **0.5 MGD** UPSTREAM OF THE 15" PLUG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BYPASS OPERATIONS AND FACILITIES, INCLUDING, BUT NOT LIMITED TO, PUMPS, PIPING, POWER SUPPLIES, TEMPORARY SCREENING SYSTEM, LINE PLUGS, AND ANY APPURTENANCES. FUEL FOR BYPASS PUMPING WILL BE PROVIDED BY THE CITY. ALL OTHER FUEL USAGE SHALL BE BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ANTICIPATED FUEL USAGE FOR BYPASS PUMPING WITH BID SUBMITTAL.
- CONTRACTOR WILL BE RESPONSIBLE FOR SELECTION OF TYPE, NUMBER, AND CAPACITY OF EACH PUMP; HOWEVER, AT LEAST ONE SPARE UNIT MUST BE PROVIDED TO ENSURE ADEQUATE CAPACITY SHOULD A PUMPING UNIT BE OUT OF SERVICE. POWER SUPPLY FOR THE BYPASS PUMPS WILL BE BY THE CONTRACTOR.
- CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE, OPERATION, AND MONITORING BYPASS PUMPS, TEMPORARY SCREENING SYSTEM, AND LINE PLUGS. IF A MANUAL SCREENING SYSTEM IS PROVIDED. THEN CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OF SCREEN.
- CONTRACTOR WILL ALSO PLUG THE 15" MONA KAY LINE AND SHALL TRANSFER PUMP FROM THE 15" LINE TO EITHER THE 20" LINE OR THE 30" LINE. MANHOLES ARE CLOSEST TOGETHER TWO MANHOLES UPSTREAM OF THE SUGGESTED 15" PLUG LOCATION.
- THE TOP MANHOLE RING AND LID ON THE MANHOLE CONNECTING THE 60" SW INTERCEPTOR AND THE 30" SPIRIT/BOEING LINE, MAY BE REMOVED TO FACILITATE THE PLUGGING THE 60" SW INTERCEPTOR AND BYPASS PUMPING OPERATIONS. RING SHALL BE REPLACED AND COATED IN ACCORDANCE WITH CITY STANDARDS. DAMAGE TO STRUCTURE CAUSED BY CONTRACTORS OPERATIONS SHALL BE REPAIRED AT NO EXPENSE TO OWNER.
- ACTUAL BYPASS PUMPING CAPACITY SHALL BE VARIABLE AND WILL CHANGE WITH WEATHER AND TIME OF DAY. FOR FUEL PROJECTION PURPOSES, THE AVERAGE DAILY FLOWS FOR THE 60" LINE ARE ANTICIPATED TO BE **7 TO 9 MGD** WITH LOW FLOW PERIODS AS LOW AS **3.0 MGD** AND LASTING FOR **4-6 HOURS** PER DAY. TYPICAL PEAK HOUR FLOWS CAN BE AS HIGH AS **15 MGD** EVEN WITH DRY WEATHER AND CAN LAST FOR UP TO **6 TO 8 HOURS**. IN FUEL PROJECTIONS, PLAN FOR **5 DAYS** AT THE FULL **18 MGD** DUE TO RAIN EVENTS.



BY-PASS LAYOUT PLAN

