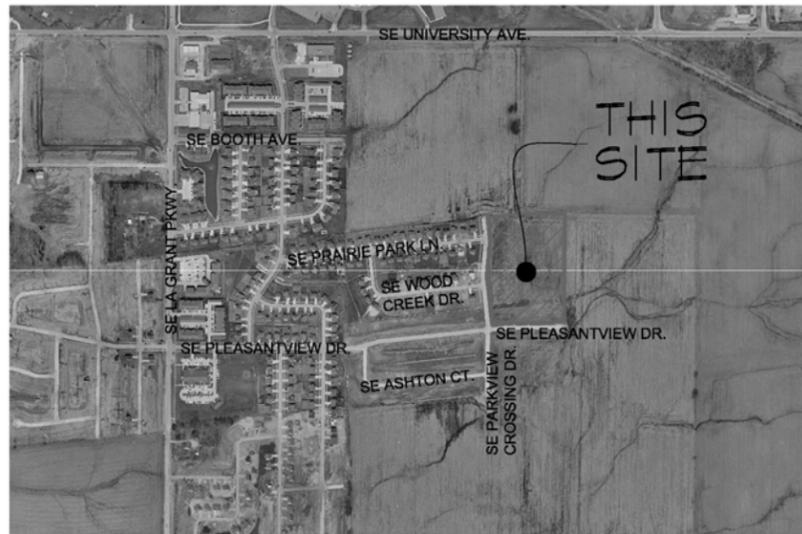


C O N S T R U C T I O N                      D R A W I N G S

# P A R K V I E W   C R O S S I N G

P L A T                      8 - P H A S E O N E

JERRY'S HOMES, INC. - 3301 NW 106th CIRCLE - URBANDALE, IOWA 50322



VICINITY SKETCH

NO SCALE

### DRAWING INDEX

- 1      SANITARY SEWER
- 2      WATER PLAN
- 3      STORM SEWER
- 4      GRADING / SWPPP

### BENCHMARK

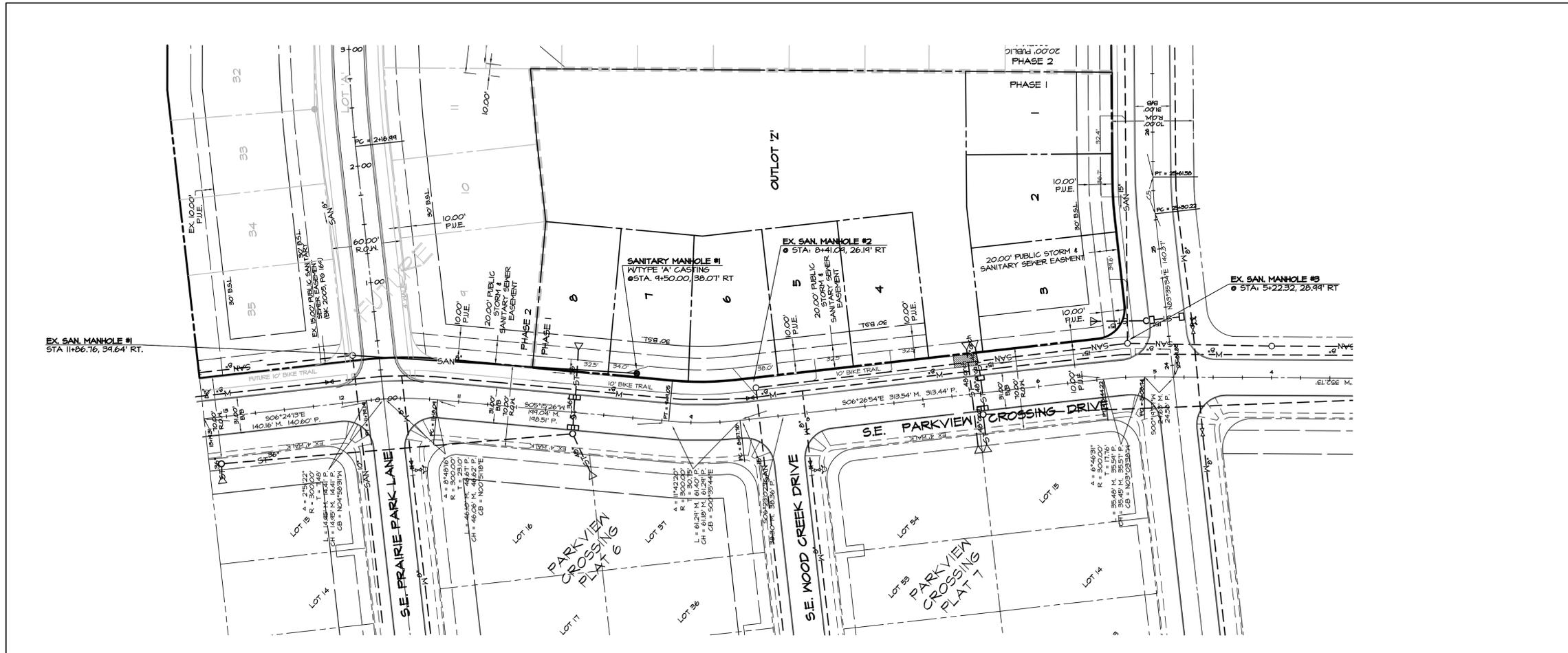
CITY OF WAUKEE BENCHMARK LOCATED ON THE BURY BOLT OF THE WATER HYDRANT LOCATED ON THE N.W. CORNER OF LOT 26, PARKVIEW CROSSING PLAT 6  
ELEVATION= 1025.46

### CERTIFICATION

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	MELISSA M. HILLS, IOWA REG. NO. 16023      DATE MY LICENSE RENEWAL DATE IS DECEMBER 31, 2011 PAGES OR SHEETS COVERED BY THIS SEAL: SHEETS 1 - 4

CIVIL ENGINEERING CONSULTANTS, INC. 2400 86TH STREET, #12, DES MOINES, IOWA 50322

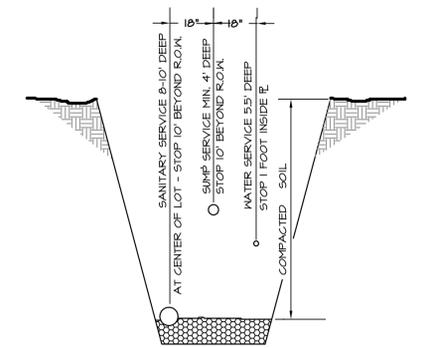
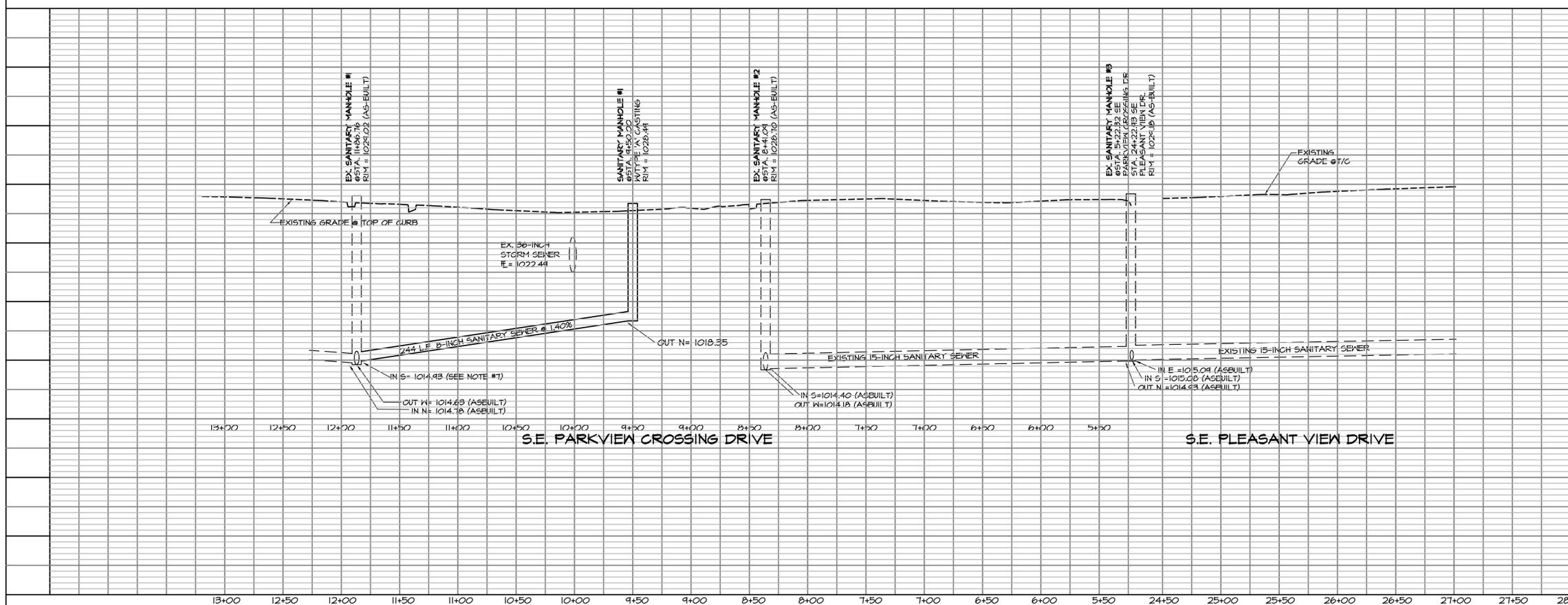
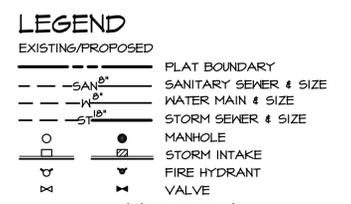
DATE: MAY 18, 2010  
 REVISION: JUNE 2, 2010  
 REVISION: JUNE 14, 2010



- NOTES**
- ALL CONSTRUCTION (PUBLIC & PRIVATE) SHALL BE IN ACCORDANCE WITH THE IOWA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS IN EFFECT AT THE TIME OF CONSTRUCTION. CURRENT SPECIFICATIONS ARE AVAILABLE ONLINE AT: [WWW.IOWA.ORG/PDF/SPEC/STDSPEC\\_2005A.PDF](http://WWW.IOWA.ORG/PDF/SPEC/STDSPEC_2005A.PDF)
  - CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
    - CITY OF MAJES ENGINEERS OFFICE
    - JERRY'S HOMES, INC.
    - CIVIL ENGINEERING CONSULTANTS, INC.
    - IOWA ONE-CALL
  - THE LOCATION OF EXISTING FACILITIES AND APPURTENANCES SHOWN ON THIS PLAN ARE BASED ON AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING TO DETERMINE EXACT FACILITIES LOCATIONS. CIVIL ENGINEERING CONSULTANTS, INC. DOES NOT GUARANTEE THE LOCATION OF EXISTING FACILITIES AS SHOWN, OR THAT ALL EXISTING FACILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL PUBLIC AND PRIVATE UTILITY PROVIDERS SERVING THIS AREA, AND IOWA ONE CALL, TO DETERMINE THE EXTENT AND PRECISE LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION BEGINS.
  - THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE FACILITIES FROM DAMAGE, RESULTING FROM THE CONTRACTOR'S WORK. IF DAMAGE, BREAKAGE, INTERRUPTION OF SERVICE, ETC. OF EXISTING FACILITIES DOES OCCUR, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE UTILITY'S OWNER.
  - CASTING TYPES ARE FROM SUDAS SPECS.
  - CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RECONNECTING ANY FARM TILE DAMAGED DURING CONSTRUCTION & FOR RECORDING THE LOCATION OF TILE.
  - WHEN CONNECTING TO ANY EXISTING MANHOLE, CORE DRILL MANHOLE & FOUR WELL DEFINED INVERT. CONNECTION SHALL BE CONSTRUCTED WITH A WATERTIGHT SEAL. CONTRACTOR SHALL FIELD VERIFY THE INVERT INTO EXISTING MANHOLE #1 TO DETERMINE IF THE PROPOSED FLOW LINE NEEDS TO BE RAISED IN ORDER TO POUR A WELL DEFINED INVERT.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT LOCATIONS OF ALL SANITARY SEWER SERVICES & PROVIDING THIS INFORMATION TO THE ENGINEER.

**QUANTITIES**

244 L.F.	8-INCH SANITARY SEWER
1 EA.	TYPE 'A' MANHOLE SERVICES
8 EA.	SERVICES

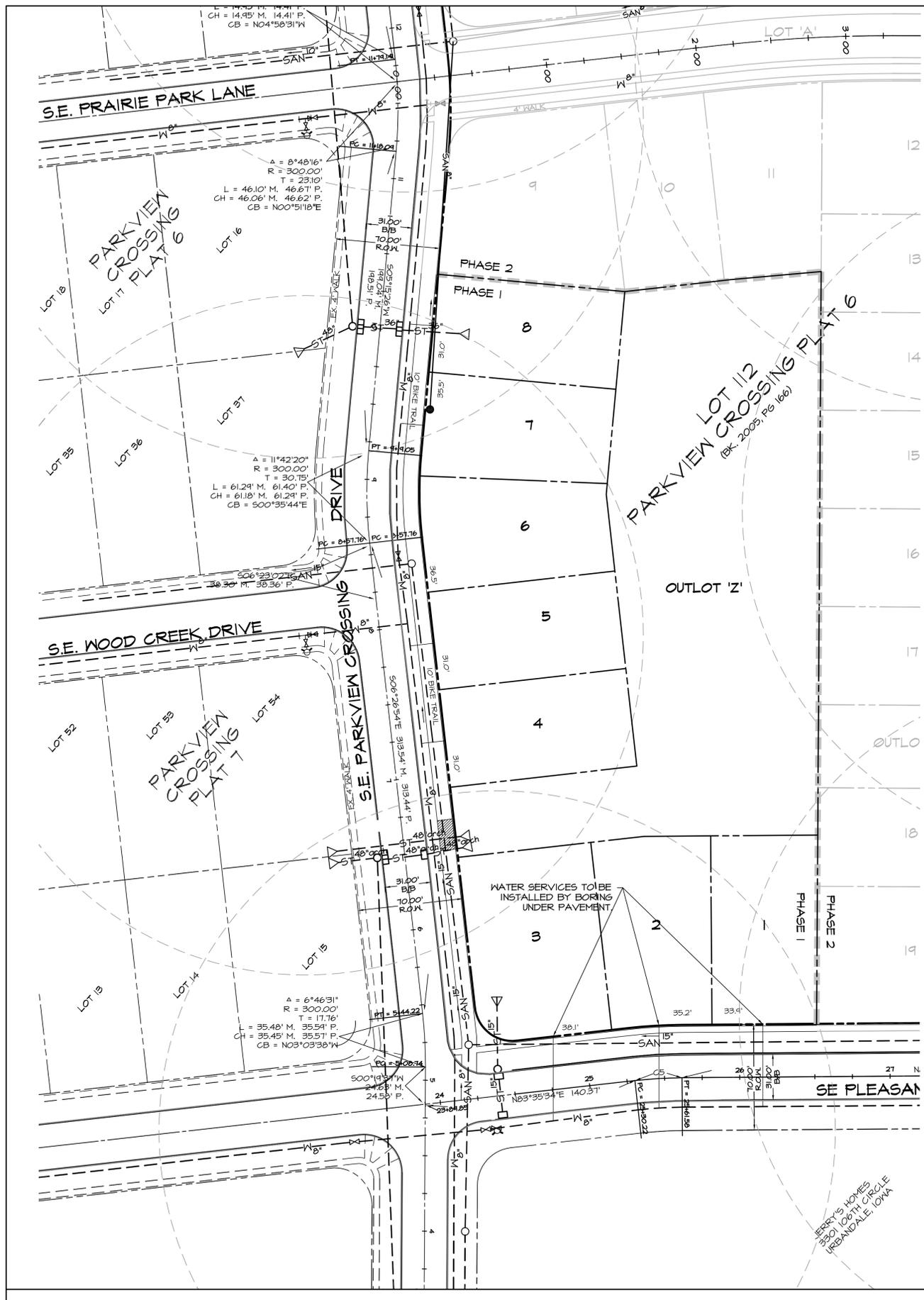


SANITARY & SUMP SERVICES SHALL BE MARKED AT THE END OF PIPE WITH A 2X4 TO THE SURFACE & A STEEL FENCE POST. PLACE ONE 6 FT. STEEL POST BURIED 3 FT. AT WATER CURB. BOX COLOR MARKING OF SERVICES SHALL BE RED FOR SANITARY, GREEN FOR SUMPS AND BLUE FOR WATER.

**SERVICE LOCATION DETAIL**  
NO SCALE

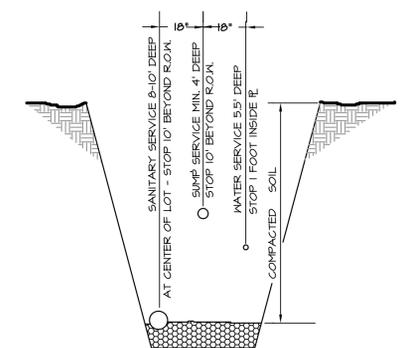
SCALE	5'
DATE: 05-18-2010	SHEET 1 OF 4
REVISION: 06-02-2010	
REVISION: 06-14-2010	

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- NOTES**
- ALL CONSTRUCTION (PUBLIC & PRIVATE) SHALL BE IN ACCORDANCE WITH THE WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS IN EFFECT AT THE TIME OF CONSTRUCTION. CURRENT SPECIFICATIONS ARE AVAILABLE ONLINE AT: WWW.WAUKEE.ORG/PDFS/WKEE\_STD\_SPEC\_2005A.PDF
  - CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION:
    - CITY OF WAUKEE ENGINEERS OFFICE
    - JERRY'S HOMES, INC.
    - CIVIL ENGINEERING CONSULTANTS, INC.
    - IOWA ONE-CALL
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  - THE CONTRACTOR SHALL PROTECT EXISTING ON-SITE FACILITIES FROM DAMAGE RESULTING FROM THE CONTRACTOR'S WORK. IF DAMAGE, BREAKAGE, INTERRUPTION OF SERVICE, ETC. OF EXISTING FACILITIES DOES OCCUR THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE UTILITY'S OWNER.
  - PIPE MATERIALS: DUCTILE IRON IN ACCORDANCE WITH STANDARD SPECIFICATIONS OR ANNA GROUT - 18 PVC. INSTALL NO. 10 THIN STANDARD COPPER TRACER WIRE TO SURFACE AT FIRE HYDRANTS, VALVES, AND NEAR DEAD ENDS. CONNECT NEW TRACER TO EXISTING.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION AND PROTECT ALL UTILITIES AND STRUCTURES. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
  - THE CONTRACTOR SHALL PROTECT AND BACKFILL AROUND ALL UTILITIES AND STRUCTURES. BACKFILL SHALL BE IN 6-INCH LAYERS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, 4% TO 4% OPTIMUM MOISTURE CONTENT.
  - HYDRANTS, MANHOLE COVERS AND VALVE BOXES SHALL BE SET TO CONFORM TO FINISHED PAVEMENT ELEVATIONS.
  - SERVICES TO BE 1-INCH COPPER, STOP BOXES TO BE MUELLER H-10300 OR EQUAL.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING THE AS-BUILT LOCATION OF ALL WATER SERVICES AND PROVIDING THIS INFORMATION TO THE ENGINEER.
  - HYDRANTS SHALL BE SET NOT MORE THAN 4 FEET FROM MAIN.
  - IF DISCREPANCY EXISTS BETWEEN THE DETAILED PLANS AND THE QUANTITIES, THE PLANS SHALL GOVERN.
  - AN APPROVED SADDLE SHALL BE USED FOR ALL WATER SERVICE TAPS.

**QUANTITIES**  
 8 EA. SERVICES

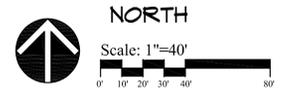


SANITARY & SUMP SERVICES SHALL BE MARKED AT THE END OF PIPE WITH A 2X4 TO THE SURFACE & A STEEL FENCE POST. PLACE ONE 6 FT. STEEL POST BURIED 3 FT. AT WATER CURB BOX. COLOR MARKING OF SERVICES SHALL BE RED FOR SANITARY, GREEN FOR SUMPS AND BLUE FOR WATER.

**SERVICE LOCATION DETAIL**  
 NO SCALE

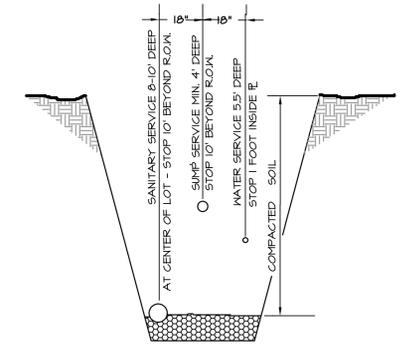
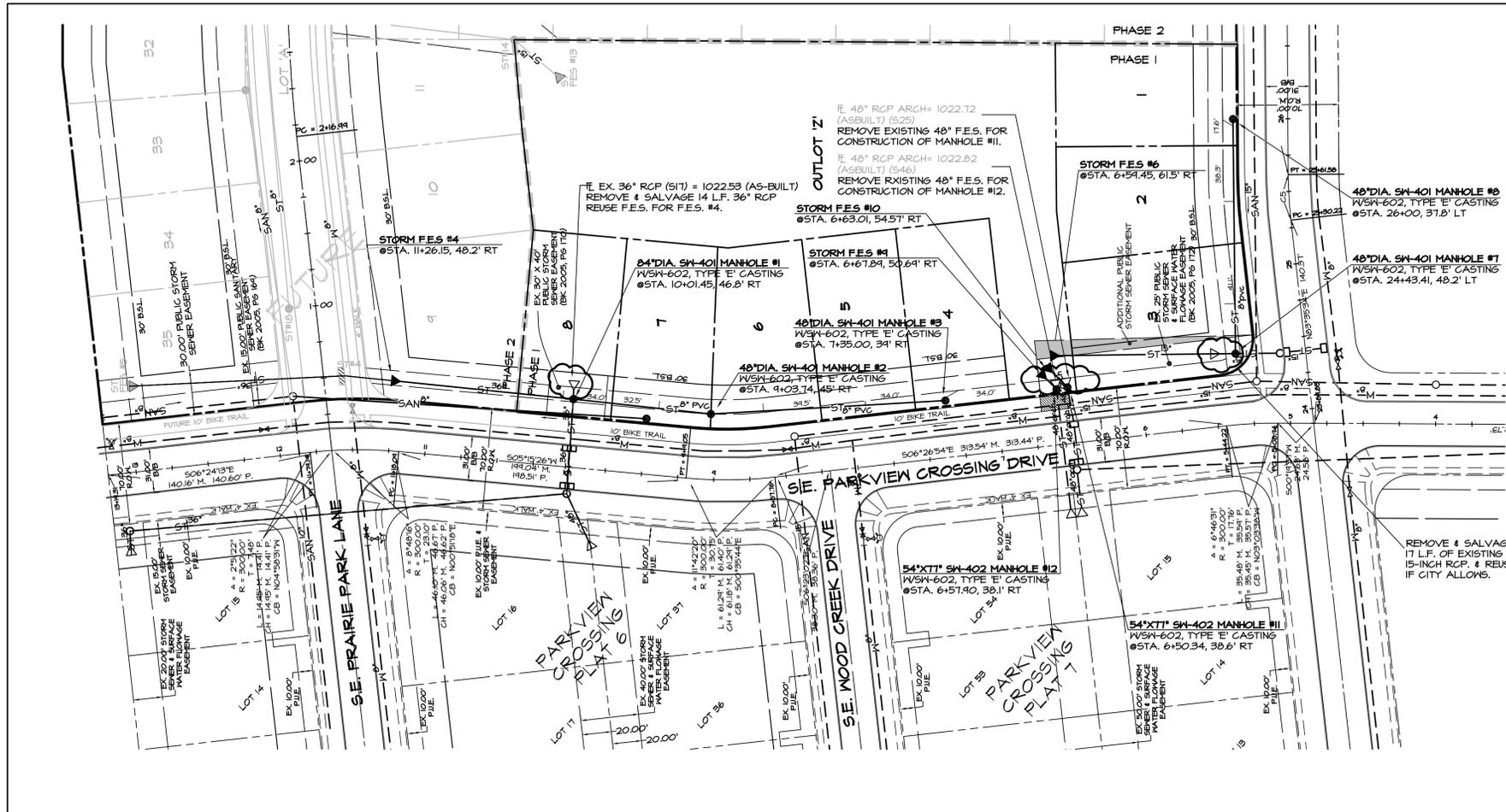
**LEGEND**

- |         |                       |     |                    |
|---------|-----------------------|-----|--------------------|
| ---     | EXISTING/PROPOSED     | --- | PLAT BOUNDARY      |
| -SAN 8" | SANITARY SEWER & SIZE | --- | WATER MAIN & SIZE  |
| -W 8"   | WATER MAIN & SIZE     | --- | STORM SEWER & SIZE |
| -S 18"  | STORM SEWER & SIZE    | ○   | MANHOLE            |
| ○       | MANHOLE               | ○   | STORM INTAKE       |
| ▽       | STORM INTAKE          | ▽   | FIRE HYDRANT       |
| ▽       | FIRE HYDRANT          | ▽   | VALVE              |
| ▽       | VALVE                 |     |                    |



DATE: 05-18-2010  
 REVISION: 06-02-2010  
 REVISION: 06-14-2010

**SHEET**  
**2**  
 OF 4



SANITARY & SUMP SERVICES SHALL BE MARKED AT THE END OF PIPE WITH A 2X4 TO THE SURFACE & A STEEL FENCE POST. PLACE ONE 6 FT. STEEL POST BURIED 3 FT. AT WATER CURB BOX. COLOR MARKING OF SERVICES SHALL BE RED FOR SANITARY, GREEN FOR SUMPS AND BLUE FOR WATER.

**SERVICE LOCATION DETAIL**

NO SCALE

- NOTES**
- ALL CONSTRUCTION (PUBLIC & PRIVATE) SHALL BE IN ACCORDANCE WITH THE IOWA ONE-CALL STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS IN EFFECT AT THE TIME OF CONSTRUCTION. CURRENT SPECIFICATIONS ARE AVAILABLE ONLINE AT: WWW.IOWAONECALL.ORG/PDFS/WKEE\_STD\_SPEC\_2005A.PDF (SEE ALSO NOTE #8)
  - CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION:
    - CITY OF WAUKEE ENGINEERS OFFICE
    - JERRY'S HOMES, INC.
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  - CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT LOCATIONS OF ALL STORM SEWER SERVICES AND PROVIDE THIS INFORMATION TO THE ENGINEER.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY FARM TILE DAMAGE DURING CONSTRUCTION AND RECORDING LOCATION OF TILE.
  - A GEOTECHNICAL REPORT FOR THIS PROJECT CAN BE OBTAINED BY CONTACTING THE OWNER.
  - INTAKE & CASTING TYPES LISTED ARE PER THE CURRENT EDITION OF THE IOWA SUD.A.S. SPECS.
  - PROVIDE APRON GUARDS & CONCRETE FOOTINGS ON ALL FLARED END SECTIONS.
  - ALL STORM SEWER TO BE CLEANED AND VIDEO TAPED UPON COMPLETION.

**QUANTITIES**

126 L.F.	36-INCH RCP CLASS III
30 L.F.	33-INCH RCP CLASS III
128 L.F.	15-INCH RCP CLASS III
418 L.F.	8-INCH PVC
4 EA.	48\"/>

**IOWA ONE-CALL**  
800/292-8888  
CALL BEFORE YOU DIG

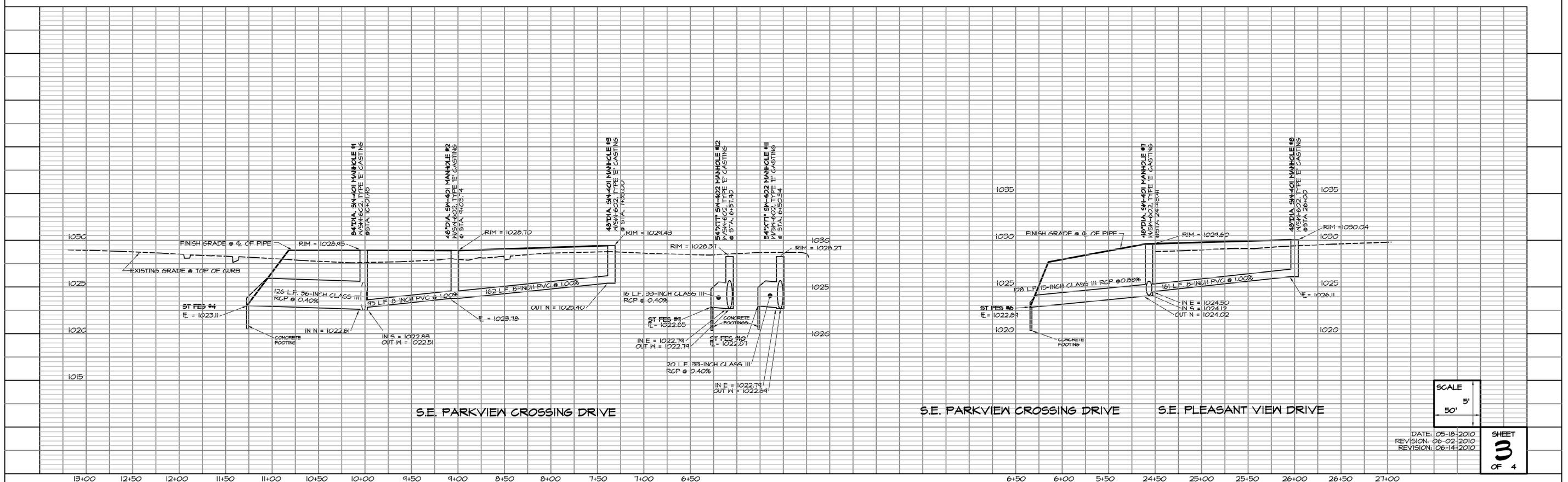
**LEGEND**

EXISTING/PROPOSED

- FLAT BOUNDARY
- SANITARY SEWER & SIZE
- WATER MAIN & SIZE
- STORM SEWER & SIZE
- MANHOLE
- STORM INTAKE
- FIRE HYDRANT
- VALVE
- DEMOLITION / REMOVAL

**NORTH**  
Scale: 1"=50'

0' 10' 20' 30' 40' 50'

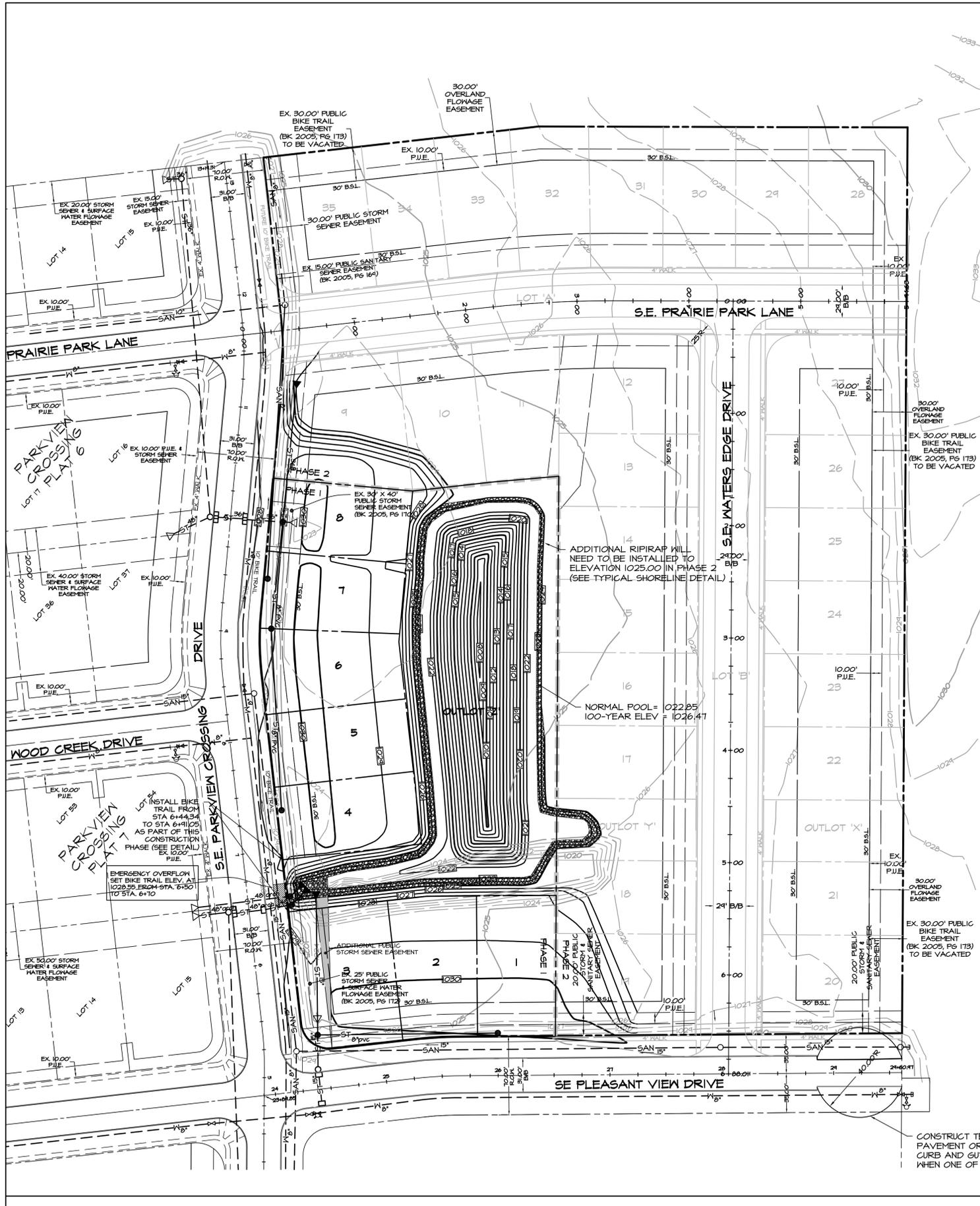


**SCALE**  
5'  
50'

DATE: 05-18-2010  
REVISION: 06-02-2010  
REVISION: 06-14-2010

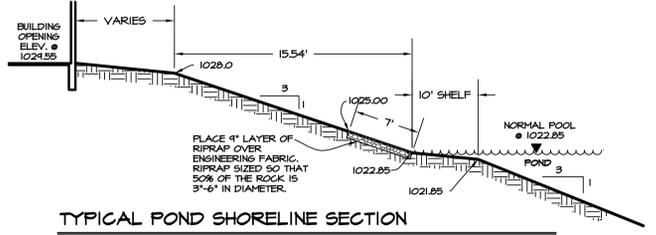
**SHEET**  
3  
OF 4

PLAN & PROFILE - STORM SEWER - 13th STREET SE - PARKVIEW CROSSING PLAT 8  
 JERRY'S HOMES, INC. - 3301 NW 106th CIRCLE - URBANDALE, IOWA 50322  
 CIVIL ENGINEERING CONSULTANTS, INC. 2400 86TH STREET, #12, DES MOINES, IOWA 50322



**GRADING AND EROSION CONTROL NOTES**

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- CONTRACTOR SHALL ARRANGE FOR TESTING AND INSPECTION AND NOTIFY THE FOLLOWING AT LEAST ONE WEEK PRIOR TO BEGINNING CONSTRUCTION:
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- CONTRACTOR SHALL STRIP TOPSOIL FROM ALL AREAS TO BE CUT OR FILLED.
- STOCKPILE SUFFICIENT TOPSOIL TO BE RESPREAD ON LAWN AREAS TO AN 8-INCH DEPTH.
- UNLESS GRADING FOR A DESIGNED SWAMP OR LOW POINT AREA, GRADE ALL SITE AREAS TO DRAIN WITHOUT TRAPPING OR PONDING SURFACE WATER WHEN SITE GRADING IS COMPLETE.
- FINAL GRADE ELEVATIONS OF ALL PAVED AREAS SHALL BE WITHIN 0.10 FEET OF PLAN GRADE UNLESS STATED OTHERWISE IN THE IOWA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. LAWN AREAS SHALL BE WITHIN 0.20 FEET OF PLAN GRADE.
- SPOT ELEVATIONS ON PAVED SURFACES ARE TOP OF SLAB ELEVATIONS UNLESS NOTED OTHERWISE.
- CIVIL ENGINEERING CONSULTANTS, INC. IS NOT A GEOTECHNICAL ENGINEER.
  - A GEOTECHNICAL REPORT FOR THIS PROJECT CAN BE OBTAINED BY CONTACTING THE OWNER.
  - A MINIMUM OF ONE FOOT OF COMPACTED CLAY SOIL LINER SHALL BE PROVIDED IN THE POND BELOW THE PERMANENT POOL ELEVATION. POND SLOPES SHALL BE DESIGNED & COMPACTED PRIOR TO PLACEMENT OF LINER. AREAS ENCOUNTERING SAND SHALL BE OVEREXCAVATED A MINIMUM OF 2 FEET & UP TO 5 FEET. THESE AREAS SHOULD BE FILLED IN WITH COHESIVE ENGINEERED COMPACTED FILL. IF SEEPAGE IS ENCOUNTERED ABOVE PERMANENT POOL, AN INTERCEPTOR DRAIN MAY BE REQUIRED. THE NECESSITY FOR THE DRAIN SHALL BE DETERMINED BY THE GEOTECH DURING POND CONSTRUCTION. CONTACT GEOTECH & 515-986-9018 TO SCHEDULE OBSERVATION & TESTING.
- AN ASBUILT PLAN SET SHALL BE PROVIDED UPON COMPLETION OF SITE IMPROVEMENTS INCLUDING DIMENSIONS, ELEVATIONS AND SPOT ELEVATIONS FOR ALL OVERLAND FLOWAGE EASEMENTS AT EACH LOCATION WHERE THE EASEMENT CROSSES A PROPERTY LINE, INCLUDING STREET R.O.W.'S.
- ALL DETENTION POND GRADING SHALL BE FIELD VERIFIED BY DESIGN ENGINEER AND ASBUILT'S SHALL BE PROVIDED TO THE CITY WITH A LETTER OF CERTIFICATION FROM THE ENGINEER THAT THE POND WAS CONSTRUCTED TO DESIGN.
- THE CONTRACTOR SHALL CERTIFY ON THE ASBUILT PLAN THAT THE STORMWATER MANAGEMENT FACILITY HAS CONSTRUCTED TO ADDRESS ALL PROPERTIES WITHIN THE DEVELOPMENT.



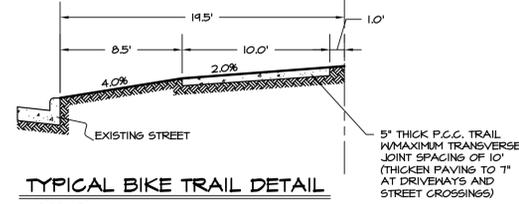
**TYPICAL POND SHORELINE SECTION**  
 NO SCALE  
 NOTE: ALTERNATIVE SHORELINE PROTECTION MATERIALS MAY BE USED IF DESIRED BY THE DEVELOPER. ANY ALTERNATE MATERIALS WILL NEED TO BE REVIEWED, DESIGNED, & APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

**CONSTRUCTION SCHEDULE**

07/01/2010 - 07/12/2010	GRADING
07/12/2010 - 07/30/2010	SEEDING/MULCHING/SILT FENCING
07/12/2010 - 07/30/2010	UTILITY CONSTRUCTION
07/30/2010 - 08/05/2010	TRAIL CONSTRUCTION
08/05/2010 - 09/15/2010	FINAL GRADING / SEEDING / MULCHING/SILT FENCING

**BENCHMARK**

CITY OF WAUKEE BENCHMARK LOCATED ON THE BURY BOLT OF THE WATER HYDRANT LOCATED ON THE N.W. CORNER OF LOT 26, PARKVIEW CROSSING PLAT 6  
 ELEVATION= 1025.46



**TYPICAL BIKE TRAIL DETAIL**  
 NO SCALE  
 NOTE: CROSS-SECTION SLOPES WILL VARY AT THE EMERGENCY OVERTFLOW LOCATION (SEE PLAN VIEW).

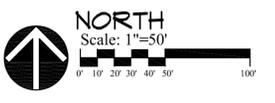
ADDITIONAL RIPRAP WILL NEED TO BE INSTALLED TO ELEVATION 1025.00 IN PHASE 2 (SEE TYPICAL SHORELINE DETAIL)

NORMAL POOL = 1022.85  
 100-YEAR ELEV = 1026.47

CONSTRUCT TEMPORARY TURNAROUND WITH 6\"/>

**LEGEND**

---	EXISTING/PROPOSED PLAT BOUNDARY
— SAN 8"	SANITARY SEWER & SIZE
— M 12"	WATER MAIN & SIZE
— S 12"	STORM SEWER & SIZE
○	MANHOLE
●	STORM INTAKE
⊕	FIRE HYDRANT
⊖	VALVE
⊗	SILT FENCE



DATE: 05-18-2010  
 REVISION: 06-02-2010  
 REVISION: 06-14-2010

**SHEET 4 OF 4**

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