

# NEW RAMSEY ELEMENTARY SCHOOL

## 16961 NOWTHEN BLVD NW

### RAMSEY, MINNESOTA

**ATS&R**  
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#### GENERAL NOTES

- MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING VEGETATION AND SITE FEATURES (CURBS, WALKS, PAVEMENTS, OVERHEAD AND UNDERGROUND UTILITIES, SIGNAGE, FENCING, ROADWAYS, ETC.) WHICH ARE TO REMAIN.
- REPAIR OR REPLACE EXISTING PROPERTY AND SITE FEATURES, INCLUDING GRASS AND VEGETATION, WHICH IS TO REMAIN THAT IS DAMAGED BY THE WORK, TO OWNER'S SATISFACTION AND AT NO ADDITIONAL COST TO THE OWNER.
- VISIT THE SITE PRIOR TO BIDDING; BE FAMILIAR WITH ACTUAL CONDITIONS IN THE FIELD. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR CONDITIONS WHICH COULD HAVE BEEN DETERMINED OR ANTICIPATED BY EXAMINATION OF THE SITE. THE CONTRACT DRAWINGS AND THE INFORMATION AVAILABLE PERTAINING TO EXISTING SOILS, UTILITIES AND OTHER SITE CHARACTERISTICS.
- THE CONTRACTOR SHALL HIRE THE SERVICES OF A UTILITY LOCATOR COMPANY TO LOCATE ALL PRIVATELY OWNED UTILITIES THAT MAY BE DISTURBED BY CONSTRUCTION OPERATIONS.
- ALL APPLICABLE DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, CENTERLINE OF FENCE, OR PROPERTY LINE UNLESS OTHERWISE NOTED.
- CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
- SIGNAGE SHALL BE INSTALLED 18" BEHIND THE BACK OF CURB OR EDGE OF PAVEMENT.
- ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE PAVED OR RECEIVE AGLIME, SHALL RECEIVE AT LEAST 4" OF TOPSOIL - REFER TO DETAIL 16/L1.13 - AND SHALL BE SEEDED OR SODDED. REFER TO SHEET L1.12- LANDSCAPING PLAN, FOR SOD AND SEED LOCATIONS. ALL OTHER AREAS DISTURBED BY CONSTRUCTION NOT SPECIFICALLY IDENTIFIED TO RECEIVE A CERTAIN SEED MIX SHALL BE SEEDED WITH SEED MIX #1.
- WHERE NEW SOD MEETS EXISTING TURF, EXISTING TURF EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
- FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD OR RE-SEED ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
- ALL CONSTRUCTION MUST COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL CONSTRUCTION STAKING / LAYOUT.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS, INCLUDING THE NPDES PERMIT FROM THE MPCA. SUBMIT A COPY OF ALL PERMITS TO THE CITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES.
- INSTALL CONTROL FENCING AND BARRICADING AS NECESSARY TO PROTECT THE PUBLIC.
- INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.
- REFER TO SPECIFICATIONS FOR DEWATERING REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR BUILDING AND STOOP DIMENSIONS AND LAYOUT.
- REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE, PART OF SECTION 01 89 13, FOR EROSION CONTROL REQUIREMENTS. SECTION 31 00 00 SHALL BE RESPONSIBLE FOR FULL IMPLEMENTATION OF THE SWPPP.
- THE CONTRACTOR SHALL HAVE A PICKUP TRUCK TYPE SWEEPER ON SITE OR AVAILABLE WITHIN 3 HOURS WHEN NOTIFIED BY THE CITY THAT SWEEPING IS REQUIRED. THE CITY RESERVED THE RIGHT TO DO THE WORK AND BILL THE DEVELOPER'S ESCROW IF THE WORK IS NOT DONE IN A TIMELY MANNER. WATER FOR DUST CONTROL MAY NOT BE OBTAINED FROM HYDRANTS. THE CITY HAS A WATER FILL STATION AT QUICKSILVER ST., SOUTH OF 167TH AVENUE FOR WATER.
- MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
- ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND LOCAL REGULATIONS.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING SITE FEATURES (INCLUDING TURF AND VEGETATION) WHICH ARE TO REMAIN.
- PROPOSED CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS OTHERWISE NOTED.
- PROPOSED ELEVATIONS SHOWN TYPICALLY AS 94.1 OR 94 SHALL BE UNDERSTOOD TO MEAN 894.1 OR 894.
- SPOT ELEVATIONS SHOWN IN PARKING LOTS, DRIVES AND ROADS INDICATE GUTTER GRADES, UNLESS NOTED OTHERWISE. SPOT ELEVATIONS WITH LABELS OUTSIDE THE BUILDING PERIMETER INDICATE PROPOSED GRADES OUTSIDE THE BUILDING. SPOT ELEVATIONS WITH LABELS INSIDE THE BUILDING PERIMETER INDICATE PROPOSED FINISH FLOOR ELEVATIONS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ORDER TO COMPLETELY PERFORM ALL WORK INDICATED ON THE DRAWINGS. IMPORT SUITABLE MATERIAL AND EXPORT UNSUITABLE / EXCESS / WASTE MATERIAL AS REQUIRED. ALL COSTS ASSOCIATED WITH IMPORTING AND EXPORTING MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT.
- NO FINISHED SLOPES SHALL EXCEED 3.5' HORIZONTAL TO 1' VERTICAL (3.5:1), UNLESS OTHERWISE NOTED.
- ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
- LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
- A POST-CONSTRUCTION TEST WILL BE CONDUCTED ON THE INFILTRATION BASIN BY FILLING THE BASIN TO A MINIMUM DEPTH OF 6 INCHES WITH WATER AND MONITORING THE NECESSARY AMOUNT OF TIME TO DRAIN. THE LOWER RUM RIVER WATERSHED MANAGEMENT ORGANIZATION SHALL BE NOTIFIED 72 HOURS PRIOR TO TESTING TO WITNESS THE RESULTS.
- ALL 8" WATERMAIN PIPE SHALL BE DIP CLASS 52 AND ALL 6" WATERMAIN PIPE SHALL BE DIP CLASS 53. ALL WATERMAIN SHALL HAVE MINIMUM 8'-0" BURY (TOP OF PIPE TO FINISH GRADE). DIP SHALL BE ENCASED WITH POLYETHYLENE FILM CONFORMING TO ASTM D 1248-889.
- ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 26), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
- ALL STORM SEWER PIPE SHALL BE RCP, CLASS III (MIN.), WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2321, UNLESS OTHERWISE NOTED.
- FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
  - IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
  - ACCEPTABLE MANUFACTURERS / PRODUCTS:
    - FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
    - PRESS-SEAL, WATERSTOP GROUTING RINGS"
    - OR APPROVED EQUAL.

#### GENERAL NOTES

- WATERMAIN SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINTILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
- PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
- CONTRACTOR SHALL STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS AND MANHOLES. GATE VALVE AND MANHOLE LOCATIONS SHALL BE ADJUSTED TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. CURB AND GUTTER SHALL BE STAKED TO ALLOW CURB INLET TYPE CATCH BASINS TO BE PROPERLY LOCATED IN LINE WITH CURBING.
- HOURS OF CONSTRUCTION ARE 7:00 AM TO 10:00 PM. NO EQUIPMENT MAY BE STARED BEFORE 7:00 AM. SITE WORK ON SATURDAY REQUIRES 72 HOUR ADVANCE NOTICE FOR APPROVAL. SUNDAY WORK REQUIRES CITY COUNCIL APPROVAL. MEETINGS ARE THE 2ND AND 4TH TUESDAYS. REQUESTS MUST BE SUBMITTED ONE WEEK BEFORE INCLUSION ON THE AGENDA.
- REFER TO SWPPP NARRATIVE (SECTION 01 89 13) FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
- MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
- IF EROSION AND SEDIMENT CONTROL MEASURES TAKEN ARE NOT ADEQUATE AND RESULT IN DOWNSTREAM SEDIMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DOWNSTREAM STORM SEWERS AS NECESSARY, INCLUDING ASSOCIATED RESTORATION.
- SEDIMENT CONTROL DEVICE AT STORM SEWER INLETS. AT THE INLETS TO ALL STORM SEWER STRUCTURES, PROVIDE A PRODUCT FROM THE FOLLOWING LIST. ACCEPTABLE PRODUCTS:
  - WIMCO TOP SLAB™ MODEL RD 27.
  - INFRASAFE® SEDIMENT CONTROL BARRIER, DISTRIBUTED BY ROYAL ENVIRONMENTAL SYSTEMS, INC. SCB'S SHALL BE SIZED SPECIFICALLY FOR THE STRUCTURE AND CASTING SPECIFIED. SCB'S SHALL BE EQUIPPED WITH FRAME AND PERFORATED SHROUD AND SHALL BE WRAPPED ON THE OUTSIDE, COVERING THE PERFORATED WALL ONLY, WITH A GEOTEXTILE SOCK.
  - DANDY BAG® OR DANDY BAG II® DISTRIBUTED BY BROCK WHITE COMPANY, ST. PAUL, MN (615) 647-0950. DANDY BAG SHALL BE USED ONLY FOR CURB INLETS AFTER PAVEMENT (BINDER COURSE OR WEAR COURSE) IS INSTALLED OR AT EXISTING PAVED AREAS.
  - INFRASAFE® DEBRIS COLLECTION DEVICE BY ROYAL ENVIRONMENTAL SYSTEMS, INC., DISTRIBUTED BY ESS BROTHERS, 9350 COUNTY ROAD 19, CORCORAN, MN 55357 DCD'S SHALL BE SIZED SPECIFICALLY FOR THE STRUCTURE AND CASTING SPECIFIED. PROVIDE FILTER BAGS AND TIES FOR COMPLETE INSTALLATION.
  - OR APPROVED EQUAL.
- PERMETER EROSION CONTROL DEVICES (SILT FENCE, ROCK ENTRANCE, INLET PROTECTION, ETC.) INSTALLED BY THE CONTRACTOR SHALL BE INSPECTED BY THE CITY PRIOR TO ANY LAND DISTURBING ACTIVITIES. CONTRACTOR MUST PROVIDE 24 HOUR NOTICE TO THE CITY FOR INSPECTION.
- REFER TO SWPPP NARRATIVE FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
- LANDSCAPE ARCHITECT MUST INSPECT AND APPROVE FINISH GRADING BEFORE CONTRACTOR PROCEEDS WITH SODDING AND SEEDING.
- BEGIN TURF ESTABLISHMENT IMMEDIATELY AFTER SODDING OR SEEDING, REFER TO SPECIFICATION FOR PROCEDURE.
- ALL TREES AND SHRUBS SHALL RECEIVE 4" DEPTH OF CLEAN SHREDDED HARDWOOD MULCH, UNLESS OTHERWISE SPECIFIED.
- ALL PLANT MATERIALS SHALL BE NO. 1 QUALITY, NURSERY GROWN AND SPECIMENS MUST BE MATCHED. ALL OVERSTORY TREES ADJACENT TO DRIVE AND IN PARKING LOT SHALL BEGIN BRANCHING NO LOWER THAN 6'. ALL TREES TO BE BALLED AND BURLAPPED.
- TREE PROTECTION: INSTALL 4' HIGH ORANGE SNOW FENCE AT THE DRIP LINE OF ALL TREES TO BE PROTECTED. MAINTAIN THROUGHOUT DURATION OF CONSTRUCTION.

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4"x4" AREA - FOR CITY PURCHASES

#### LEGEND

	REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)		PAINTED ACCESSIBLE SYMBOL
	PROPOSED CONCRETE SLAB		PROPOSED MANHOLE (MH)
	PROPOSED LIGHT DUTY BITUMINOUS PAVEMENT		PROPOSED CATCH BASIN (CB)
	PROPOSED MEDIUM DUTY BITUMINOUS PAVEMENT		PROPOSED FLARED END SECTION (FES)
	PROPOSED HEAVY DUTY PAVEMENT		PROPOSED HYDRANT (HYD)
	PROPOSED SOFT PLAY AREA		PROPOSED GATE VALVE (GV)
	PROPOSED LANDSCAPE ROCK BED		PROPOSED FLAGPOLE
	PROPOSED TRAFFIC CONTROL SIGN		PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
	SIGNAGE KEY NOTE		PROPERTY LINE
	REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)		UTILITY REMOVALS
	EXISTING CONTOUR		MASS TREE REMOVALS
	EXISTING SPOT ELEVATION		TREE REMOVALS
	PROPOSED CONTOUR		SAWCUT
	PROPOSED SPOT ELEVATION ME = MATCH EXISTING EOF = EMERGENCY OVERFLOW		PROPERTY LINE
	PROPOSED GRADING LIMITS		BASELINE FOR DIMENSIONS
	APPROXIMATE SOIL BORING LOCATION		PROPOSED SANITARY SEWER
	PROPOSED POST INDICATOR VALVE (PIV)		PROPOSED STORM SEWER
	PROVIDE MINIMUM 18" VERTICAL SEPARATION AT CROSSING - PROVIDE VERTICAL BENDS IN WATERMAIN AS REQUIRED TO ACCOMPLISH		PROPOSED WATERMAIN
	REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)		REFERENCE KEY TO SITE DETAILS DETAIL I.D NUMBER (TOP) DETAIL SHEET NUMBER (BOTTOM)
	PROPOSED DECIDUOUS TREE		PROPOSED CONIFEROUS TREE
	PROPOSED SHRUB		PROPOSED SHRUB
	APPROXIMATE SOD LIMITS		PROPOSED NATIVE SEEDING #1
	PROPOSED ROCK CONSTRUCTION ENTRANCE		PROPOSED SHRUB / MULCH BED
	PROPOSED EROSION CONTROL BLANKET		
	SEDIMENT CONTROL DEVICE AT STORM SEWER INLET		

NEW RAMSEY ELEMENTARY SCHOOL  
 16961 NOWTHEN BLVD NW, RAMSEY, MINNESOTA  
**Anoka Hennepin Schools**  
 Anoka-Hennepin School District 11  
 2727 N Ferry Street, Anoka MN 55303

#### SIGNATURE / SEAL

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.

SIGNATURE  
 JAY R. POMEROY

TYPED OR PRINTED NAME  
 02-27-2018  
 DATE  
 23543  
 LICENSE NUMBER

#### REVISIONS

NO.	DATE	DESCRIPTION

DRAWN BY

CLG

CHECKED BY

JRP

ISSUED FOR

AGENCY

REVIEW

ISSUE DATE

12/08/2017

SHEET NAME

COVER SHEET

ATS&R PROJECT NO.

17119

SHEET NUMBER

**C0.00**

**EXCERPT FROM THE SWPPP NARRATIVE**

The following is from the Storm Water Pollution Prevention Plan Narrative, Section 01 89 13 of the Project Manual. In accordance with Section 31 00 00, the Contractor shall be responsible for full implementation of and maintenance required by the SWPPP Narrative until the Notice of Termination is approved by the MPCA. Should differences arise between the SWPPP Narrative information described below and the information contained within the SWPPP Narrative, bound into the Project Manual, the SWPPP in the Project Manual shall govern.

**V. General Construction Sequence (in conjunction with the Construction Manager's Construction Schedule)**

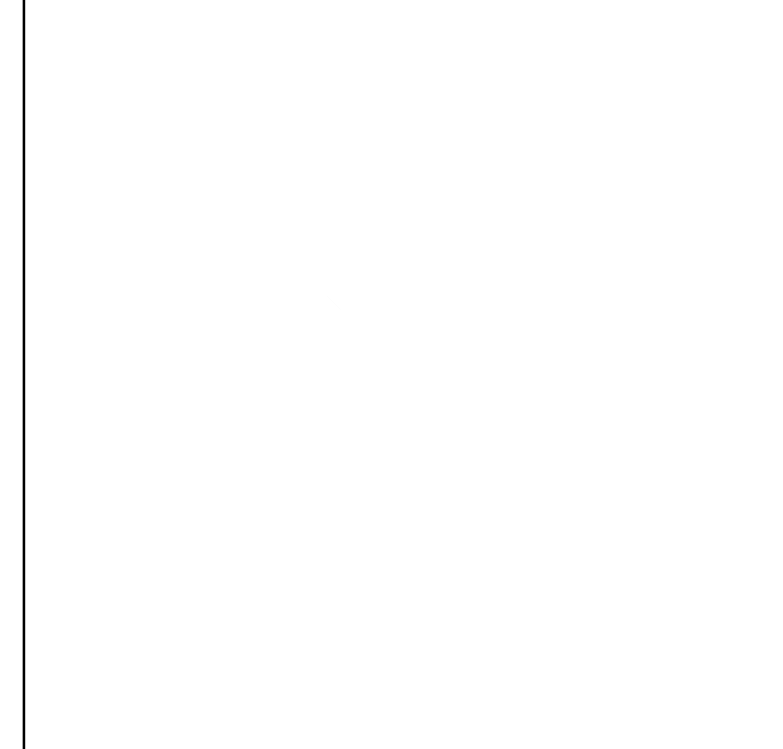
- A. Erosion Control Devices, noted herein, include:
  1. Silt fence
  2. Sediment Control Device at storm sewer inlets
  3. Sediment log
  4. Rock construction entrance
  5. Rock check dams
  6. Rip rap
  7. Storm water treatment basins
  8. Temporary sediment basins
  9. Storm sewer systems
  10. Temporary outlet pipes
  11. Flotation Silt Curtain
  12. Floating Head Skimmer
  13. Erosion control blanket
  14. Temporary seeding
  15. Final seeding / sodding
  16. Temporary / permanent vegetation
  17. Other features identified by the Minnesota Pollution Control Agency, City or Engineer as a Best Management Practice (BMP) device.
- B. Contractor shall apply for NPDES Phase II Permit within 24 hours of award of Contract.
  1. The Contractor shall post the permit in the job site trailer or other suitable temporary storage area.
- C. Review the SWPPP and its sequencing and requirements. The Contractor shall notify the Engineer if site conditions, construction sequencing, or other items are modified or require modification from this written SWPPP. The Engineer will review the suggested modifications and amend the SWPPP accordingly.
- D. Following review of the SWPPP plans commence with the following construction sequence:
  1. Install perimeter silt fence where indicated on the Drawings. Silt fence shall be as specified in Section 31 25 00.
  2. Have silt fence and other erosion control devices inspected by local authorities, as required by the local authority.
  3. Construct the rock construction entrance.
  4. Rough grade the stormwater ponds.
  5. All stripped topsoil shall be stockpiled and remain on-site for re-use unless otherwise noted.
  6. Construct permanent outlet control structure for pond, then install temporary outlet devices.
  7. Use the stormwater treatment basin as a temporary sediment basins. The following requirements apply to discharge from the temporary sediment basins:
    - a. Water from this basins shall not be discharged without being free of sediment and suspended materials.
    - b. Construct floating head skimmer devices with flocculent and temporarily attach devices to OCS. Discharge through OCS must go through the floating head skimmer devices until all upstream areas receive final stabilization.
    - c. Provide water treatment per Mn/DOT 3875.
    - d. Monitor pH and turbidity of discharge water every hour until performance is determined. The goal of pH is 7.0. If turbidity exceeds a defined number, a flocculent recirculation system must be installed. Alkaline pH adjustments shall be in the form of CO2 sparging.
    - e. After pH and turbidity performance is deemed suitable by the Engineer, take readings from the respective outfall pipes twice per week. Samples shall be collected in a clear plastic bottle. Samples will be considered passing if a persons hand is clearly visible through the bottle. Tests that do not pass require the Contractor to modify erosion control or engage contingency plan.
  8. Construct temporary berms or swales to direct water to the rough graded basins.
  9. Provide temporary seeding of the basin.
  10. Strip and stockpile topsoil in the area of the proposed building. Provide temporary seed and mulch on stockpile as described herein.
  11. Begin rough grading for the building pad.
  12. Establish the concrete track washout area and post with a sign.
  13. Begin footing construction.
  14. Complete the grading of the building pad.
  15. Begin building construction.
  16. Strip topsoil from paved areas. Stockpile for reuse. Provide temporary seed and mulch as described herein.
  17. Begin rough grading the paved areas.
  18. Rough grade the play fields.
  19. Place topsoil on play fields and provide temporary seeding and mulch. Install aglime.
  20. Construct the sanitary sewer system.
  21. Construct the permanent storm sewer system.
  22. Construct permanent storm sewer system for the stormwater treatment basin. Construct rip-rap at the end of the flared end sections within 24 hours of pipe construction.
  23. Construct the watermain system.
  24. Construct Sediment Control Devices at proposed storm sewer inlets (hay bales around castings and silt fence under castings will not be acceptable).
  25. Spread topsoil and finish grade the outlying areas. Topsoil spreading shall include all areas except around the building until the exterior building work is complete.
  26. Rough and finish grade the paved areas subgrade to specified tolerances following the procedures identified in Section 31 00 00 Earthwork.
  27. Once pavement subgrade testing is complete, construct the stabilized aggregate base course. This will serve as temporary stabilization for the parking lot.
  28. Construct curb and gutter and concrete walks. This will serve as permanent stabilization for the walk areas.
  29. Construct the curbing work at the soft play area. Install the drain tile and surfacing systems and coordinate scheduling of this work with the Owner's installation of the playground equipment.
  30. Protect the soft play area by installing erosion control devices on the upstream side of the area. Do not allow site soils / sedimentation within the soft play area.
  31. Construct the first lift of pavement in the parking lot and bus corral/ service area. This will serve as permanent stabilization.
  32. Rough and finish grade bituminous path subgrade following the procedures identified in Section 31 00 00 Earthwork.
  33. Once pavement subgrade testing is complete, construct the stabilized aggregate base course. This will serve as temporary stabilization for the paths.
  34. Construct the pavement for the bituminous paths. This will serve as permanent stabilization for the paths.
  35. Prepare play fields and outlying areas for permanent seeding (permanent stabilization) in accordance with the specified seeding dates.
  36. Complete exterior building work.
  37. Spread topsoil around the building area.
  38. All disturbed areas outside the building pad which are not designated to be paved shall receive at least 4" of topsoil (refer to Detail 16/L.13) and shall be sodded, seeded or planted.
  39. Prior to final sodding, seeding and planting, all placed topsoil material shall be reviewed by the Engineer/ Landscape Architect. Refer to specifications for placement, grading, tilling, compaction, and protection requirements.
  40. Finish grade topsoil and prepare these areas for sod.
  41. Sod the areas around the building. Use a temporary irrigation system to keep sod adequately watered.
  42. Remove temporary outlet devices.
  43. Provide final lift of pavement and pavement markings.
  44. Provide final stabilization and cleanup of the site.
- E. Provide maintenance to erosion control devices and BMP's to comply with the requirements of the permit.
- F. Re-install all sediment control practices that have been adjusted or removed to accommodate short-term activities, such as passage of construction vehicles or equipment, immediately after the short-term activity has been completed. All sediment control practices shall be re-installed before the next precipitation event if the short term activity is not complete.

- G. Inspect erosion control devices and provide routine maintenance as follows:
  1. Inspect erosion control a minimum of once per week and after each rain event measuring 0.5" or more. Record inspection on log posted in Contractor's construction trailer or other suitable temporary storage area.
    - a. Records of each inspection and maintenance activity shall include:
      - (1) Date and time of inspections
      - (2) Name of person conducting inspection
      - (3) Findings of inspections, including recommendations for corrective actions
      - (4) Corrective actions taken (including dates, times, and party completing maintenance activities)
      - (5) Date and amount of all rainfall events greater than one quarter inch (0.25 inch) in 24 hours
      - (6) Documentation of changes made to the SWPPP as required by the NPDES General Stormwater Permit for Construction Activity (MN R100001)
    - b. Inspections are not required where the ground is frozen. The required inspections and maintenance schedule must begin within 24 hours after runoff occurs at the site or 24 hours prior to resuming construction, whichever comes first.
  2. Provide maintenance for all devices as follows:
    - a. Silt fences, sediment logs, and erosion control devices at storm sewer inlets shall be inspected for depth of sediment, tears, to see if fabric is securely attached to support posts or structure, and to see that posts and devices are securely in place.
    - b. Silt fences, sediment logs and erosion control devices at storm sewer inlets, and other erosion control devices shall be cleaned when sediment reaches 1/3 the height of the erosion control device, within 24 hours.
    - c. Rock construction entrances shall be inspected for clogging of river rock. River rock that has become clogged with sediment shall be removed and replaced with fresh river rock.
    - d. Repairs or replacements to all erosion control devices shall occur within 24 hours of discovery.
    - e. Temporary diversion berms shall be inspected and any breaches promptly repaired.
    - f. Tracked sediment from construction vehicles on to public streets and paved areas (including paved areas on the construction site) shall be removed within 24 hours of discovery.
    - g. Removal of sediment and restabilization of Surface Waters shall be accomplished within 7 days of discovery (note: surface waters include curb and gutter, pavements, storm sewer, swales, or other similar storm water conveyance devices).
    - h. Inlet protection may be removed if a local unit of government directs the permittee to do so because of a specific safety concern.
  - H. Provide dewatering of excavations as identified in Section 31 00 00.
  - I. Temporary Soil Stockpiles:
    1. Temporary soil stockpiles shall not be placed in surface waters of the state, including surface conveyances such as curb and gutter, swales, or ditches.
    2. Install silt fence at the base of the temporary soil stockpile (full perimeter).
    3. Temporary soil stockpiles shall be seeded with temporary seed mix and hydromulch when stockpiles are left inactive for seven (7) days. Note, this does not apply to aggregate stockpiles or other stockpiles without significant silt, clay or organic components (clean aggregate stockpiles, clean rock, clean sand and similar clean aggregates).
  - J. Stabilize denuded areas within the following number of days of last construction activity (temporary or permanent) in that area:
    1. Within 7 days, except:
      - a. Temporary soil stockpiles shall be treated with appropriate erosion control measure, including silt fence and temporary seeding when stockpiles are left inactive for periods longer than 7 days. Note, this does not apply to aggregate stockpiles or other stockpiles without significant silt, clay or organic components (clean aggregate stockpiles, clean rock, clean sand and similar clean aggregates).
  - K. Provide maintenance of all seeded / sodded areas until fully established.
  - L. Provide cleaning of storm sewer system at the completion of the project. Cleaning shall include removal of accumulated sediment from all surface waters as defined by the permit (for example, curb and gutter, pavements, swales, and storm sewer piping and structures).
  - M. Remove silt fence and erosion control devices at storm sewer inlets following full establishment of site vegetation. Dispose materials properly off-site.
  - N. Apply for Notice of Termination (NOT) with MPCA. NOT must be submitted within 30 days after:
    1. Site has undergone Final Stabilization (at least 80% vegetative cover), and
    2. Removal of all temporary erosion control measures (silt fence, etc.), and
    3. Final cleanout and maintenance of all permanent storm water facilities, and
    4. Completion of all maintenance activities and site cleanup.

**APPROXIMATE EROSION CONTROL DEVICE QUANTITIES**

SILT FENCE = 5,500 L.F.  
 SEDIMENT CONTROL LOG = 110 L.F.  
 ROCK CONSTRUCTION ENTRANCES = 150 C.Y.  
 EROSION CONTROL BLANKET = 9,850 S.Y.  
 SEDIMENT CONTROL DEVICE AT STORM SEWER INLET = 15

47x4' AREA - FOR CITY PURCHASES

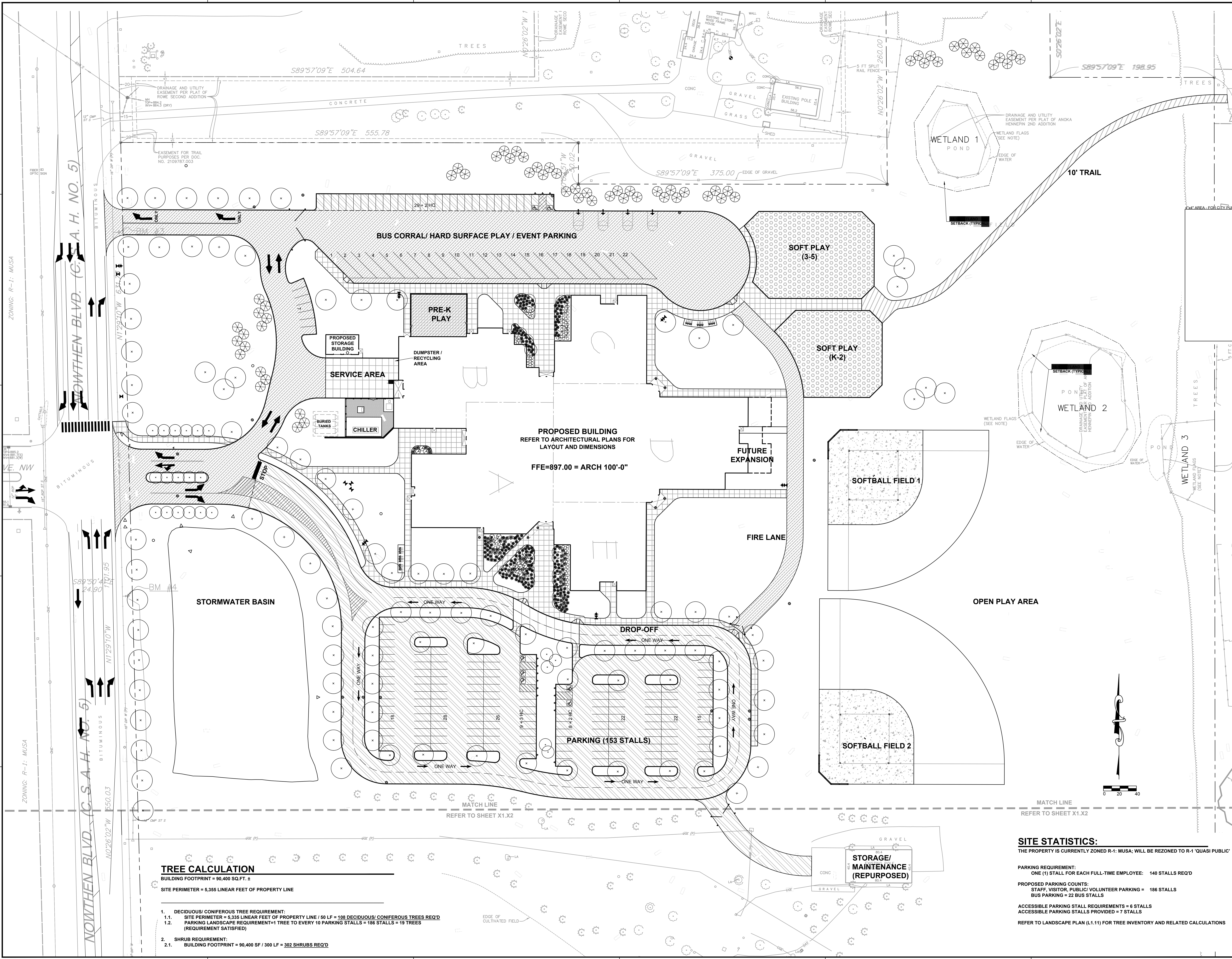


**NEW RAMSEY ELEMENTARY SCHOOL**  
 15961 NOWTHEN BLVD NW, RAMSEY, MINNESOTA  
**Anoka Hennepin Schools**  
 Anoka-Hennepin School District 11  
 2727 N Ferry Street, Anoka MN 55303

**SIGNATURE / SEAL**  
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.  
 SIGNATURE:   
**JAY R. POMEROY**  
 TYPED OR PRINTED NAME  
**02-27-2018**  
 DATE  
**23543**  
 LICENSE NUMBER

**REVISIONS**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DRAWN BY  
**CLG**  
 CHECKED BY  
**JRP**  
 ISSUED FOR  
**AGENCY REVIEW**  
 ISSUE DATE  
**12/08/2017**  
 SHEET NAME  
**SUPPPP NARRATIVE**



**TREE CALCULATION**

BUILDING FOOTPRINT = 90,400 SQ.FT. ±  
SITE PERIMETER = 5,355 LINEAR FEET OF PROPERTY LINE

1. DECIDUOUS/ CONIFEROUS TREE REQUIREMENT:
  - 1.1. SITE PERIMETER = 5,335 LINEAR FEET OF PROPERTY LINE / 50 LF = 108 DECIDUOUS/ CONIFEROUS TREES REQ'D
  - 1.2. PARKING LANDSCAPE REQUIREMENT=1 TREE TO EVERY 10 PARKING STALLS = 186 STALLS = 19 TREES (REQUIREMENT SATISFIED)
2. SHRUB REQUIREMENT:
  - 2.1. BUILDING FOOTPRINT = 90,400 SF / 300 LF = 302 SHRUBS REQ'D

**SITE STATISTICS:**

THE PROPERTY IS CURRENTLY ZONED R-1: MUSA; WILL BE REZONED TO R-1 'QUASI PUBLIC'

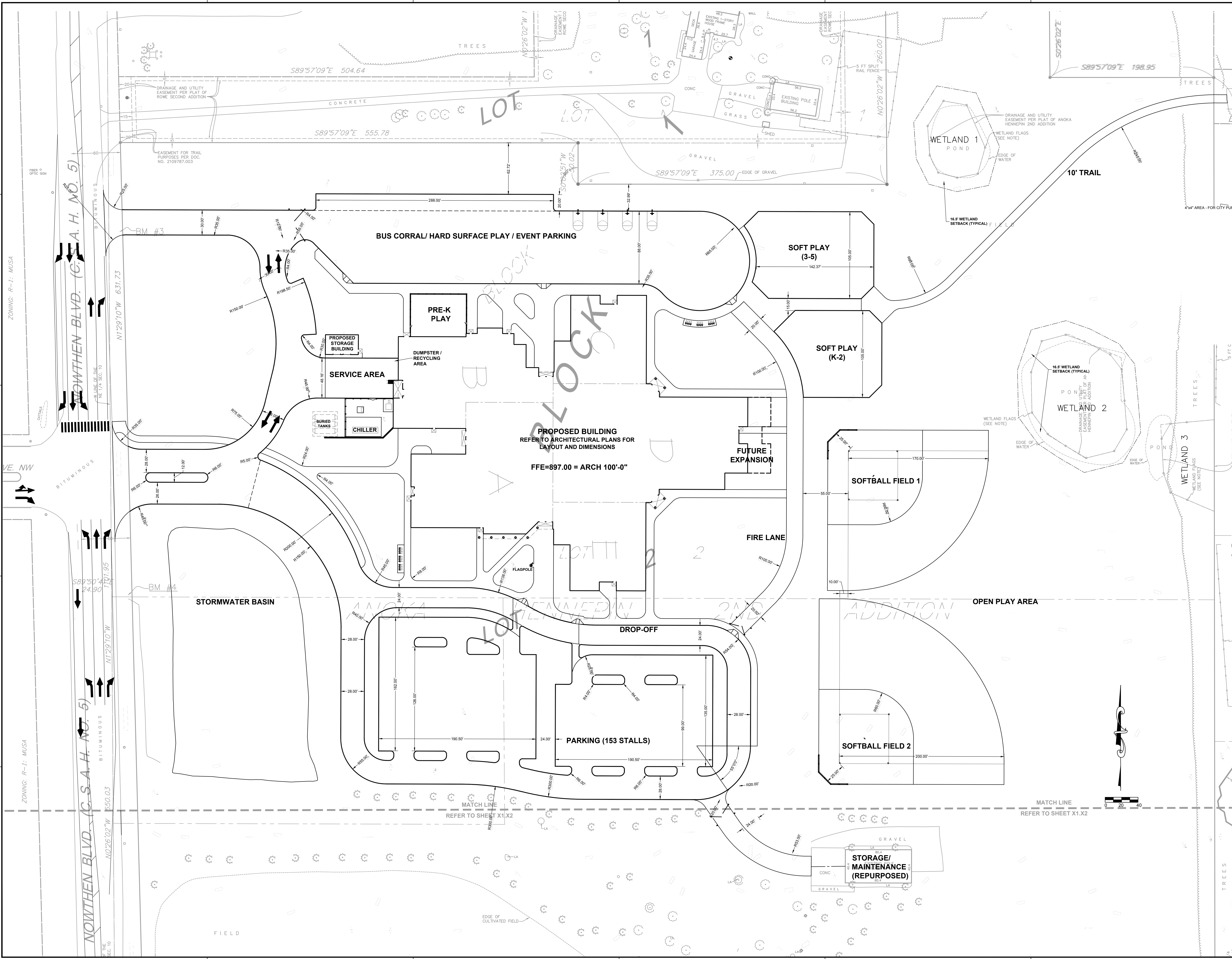
PARKING REQUIREMENT:  
ONE (1) STALL FOR EACH FULL-TIME EMPLOYEE: 140 STALLS REQ'D

PROPOSED PARKING COUNTS:  
STAFF, VISITOR, PUBLIC/ VOLUNTEER PARKING = 186 STALLS  
BUS PARKING = 22 BUS STALLS

ACCESSIBLE PARKING STALL REQUIREMENTS = 6 STALLS  
ACCESSIBLE PARKING STALLS PROVIDED = 7 STALLS

REFER TO LANDSCAPE PLAN (L1.11) FOR TREE INVENTORY AND RELATED CALCULATIONS





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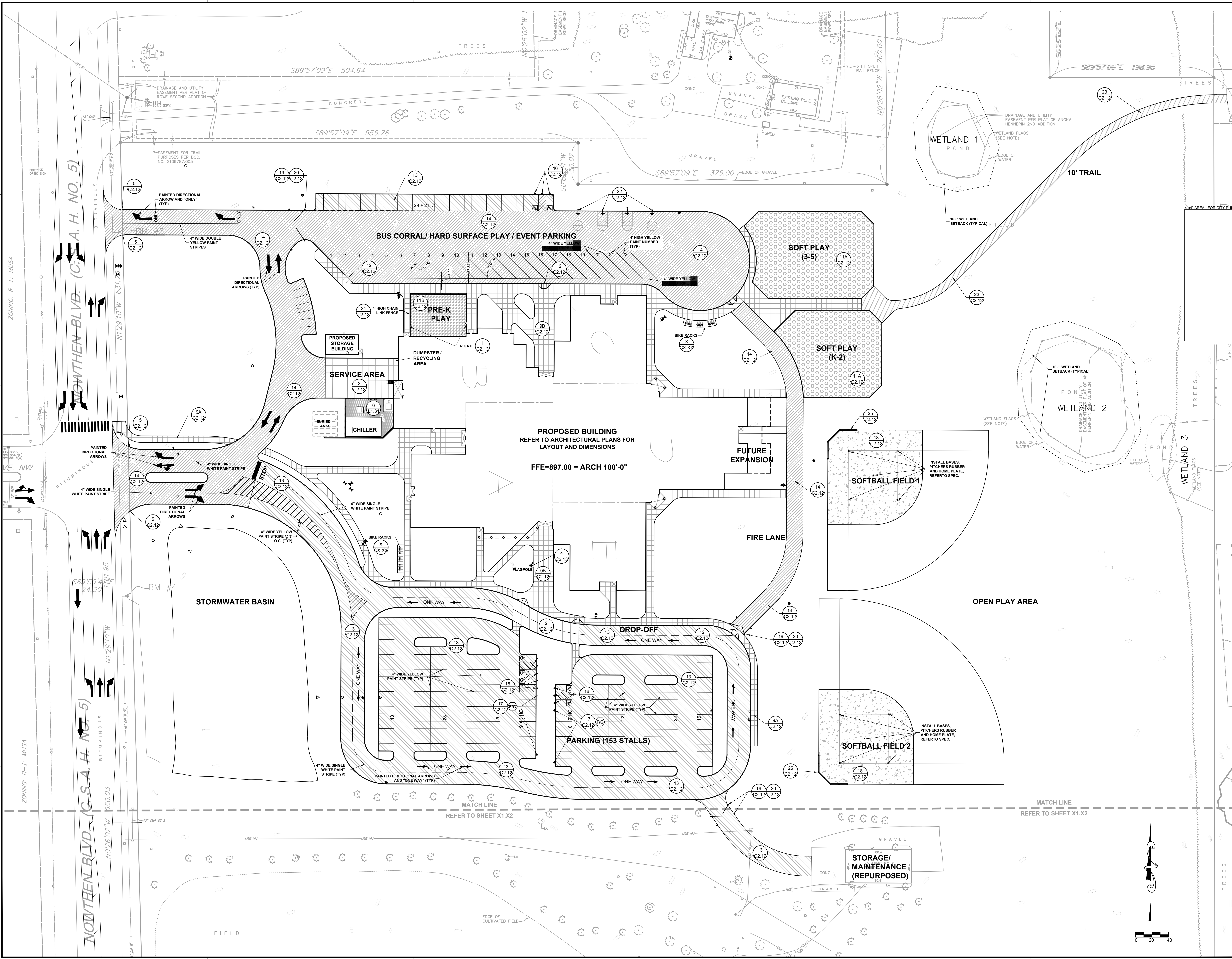
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SIGNATURE: *Jay R. Pomeroy*  
TYPED OR PRINTED NAME: **JAY R. POMEROY**  
DATE: **02-27-2018**  
LICENSE NUMBER: **23543**

**REVISIONS**

NO.	DATE	DESCRIPTION

DRAWN BY: **CLG**  
CHECKED BY: **JRP**  
ISSUED FOR: **REVIEW**  
AGENCY: **REVIEW**  
ISSUE DATE: **12/28/2017**  
SHEET NAME: **SITE LAYOUT PLAN**  
ATS&R PROJECT NO.: **17119**  
SHEET NUMBER: **C1.21**



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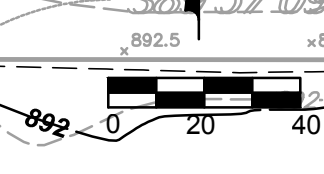
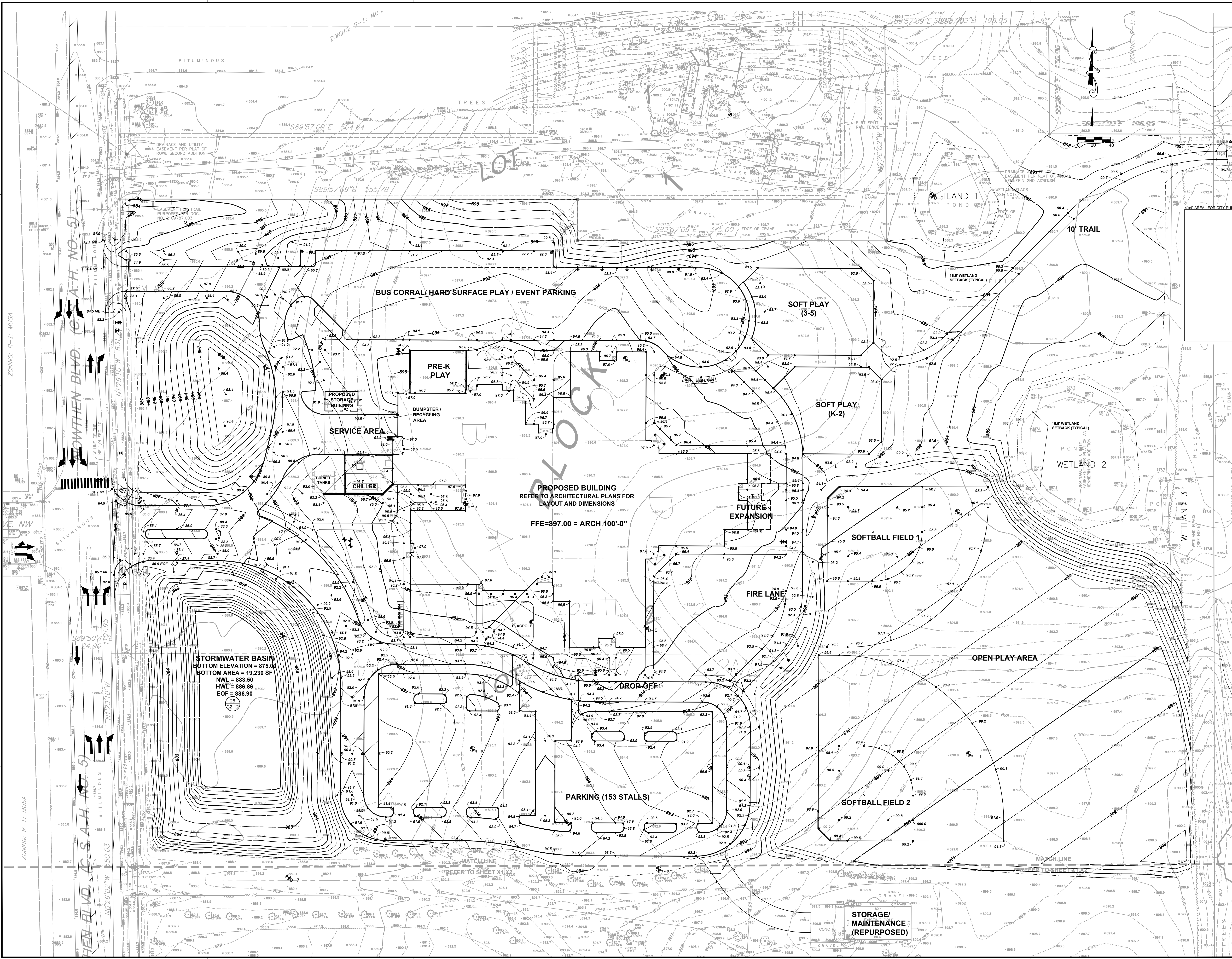
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SIGNATURE: *JAY R. POMEROY*  
TYPED OR PRINTED NAME: **JAY R. POMEROY**  
DATE: **02-27-2018**  
LICENSE NUMBER: **23543**

**REVISIONS**

NO.	DATE	DESCRIPTION

DRAWN BY: **CLG**  
CHECKED BY: **JRP**  
ISSUED FOR: **AGENCY REVIEW**  
ISSUE DATE: **12/08/2017**  
SHEET NAME: **SITE FINISHING PLAN**  
ATS&R PROJECT NO.: **17119**  
SHEET NUMBER: **C1.31**



0 20 40

NEW RAMSEY ELEMENTARY SCHOOL  
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*JAY R. POMEROY*

JAY R. POMEROY

TYPED OR PRINTED NAME

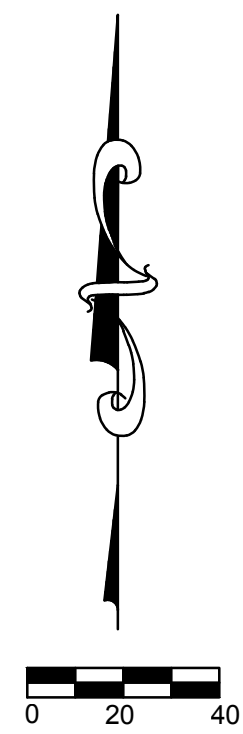
02-27-2018

DATE

23543

LICENSE NUMBER

REVISIONS



**MNDOT 2016 SPEC**

MNDOT 2016 SPEC TABLE 3877-1 COMMON TOPSOIL BORROW		
REQUIREMENT	RANGE	TEST METHOD
MATERIAL PASSING THE 3/4 IN [19MM]	100%	ASTM D 422
MATERIAL PASSING NO. 4 [4.75MM]	>85%	-
CLAY	5% - 35%	ASTM D 422
SILT	5% - 70%	ASTM D 422
SAND	10% - 75%	ASTM D 422
ORGANIC MATTER	3% - 15%	ASTM D 2974
pH	6.1-7.8	ASTM C 51

NOTE:  
1. INSTALLATION OF 4" OF TOPSOIL MEETING MNDOT SPECIFICATION 3877A COMMON TOPSOIL BORROW, MAY BE REQUIRED ACROSS ALL DISTURBED AREAS.  
2. A SOIL CERTIFICATION FROM A GEOTECHNICAL FIRM MUST BE PROVIDED VERIFYING THE TOPSOIL MEETS SPECIFICATION ALONG WITH LOAD TICKETS TO VERIFY THE SOURCE OF MATERIAL AND QUANTITY.  
3. TOPSOIL MUST COME FROM A CITY APPROVED SOURCE.

APPROVED: 1 - 2016 CITY PLATE No. ERO-6 STANDARD DETAILS: TOPSOIL REQUIREMENTS

**1 C1.42 TOPSOIL REQUIREMENTS**

**TABLE A  
MODIFIED CLASS 5  
SPECIFICATIONS**

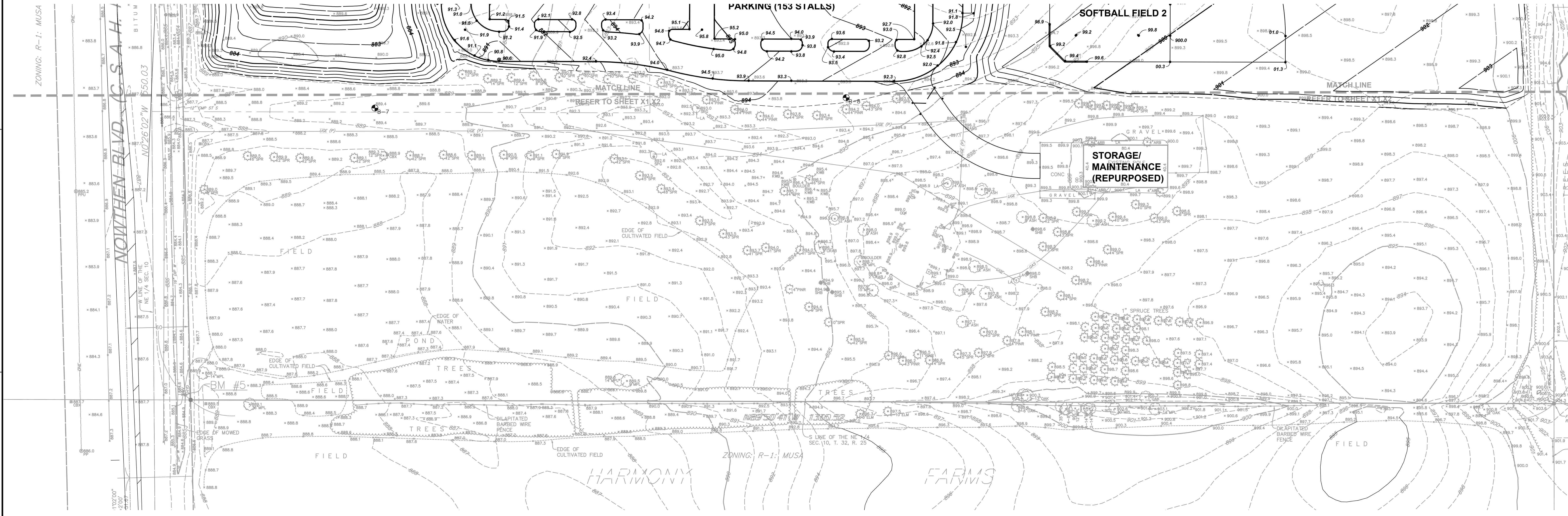
% PASSING

1"	100
3/4"	90 - 100
3/8"	50 - 80
No.4	35 - 70
No.10	20 - 60
No.40	10 - 35
No.200	5 - 10

NOTES:  
1. THE AGGREGATE BASE CONSTRUCTION WILL BE ACCEPTED FOR PAYMENT IN ACCORDANCE WITH THE PROVISIONS IN TABLE A.  
2. IF THE AGGREGATE BASE FAILS TO MEET THE REQUIREMENTS OF TABLE A THE MATERIAL CAN BE CORRECTED IN PLACE OR REMOVED AND REPLACED WITH MATERIAL THAT MEETS THE REQUIREMENTS OF TABLE A.  
3. IN THE EVENT THAT RECYCLED MATERIAL IS USED IT MUST MEET MNDOT REQUIREMENTS FOR RECYCLED BASE.

APPROVED: 2 - 2003 STANDARD DETAILS: MODIFIED CLASS 5 SPECIFICATIONS CITY PLATE No. STR-26

**2 C1.42 MODIFIED CLASS 5 SPECIFICATIONS**



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**JAY R. POMEROY**  
TYPED OR PRINTED NAME  
**02-27-2018**  
D3543  
LICENSE NUMBER

**REVISIONS**

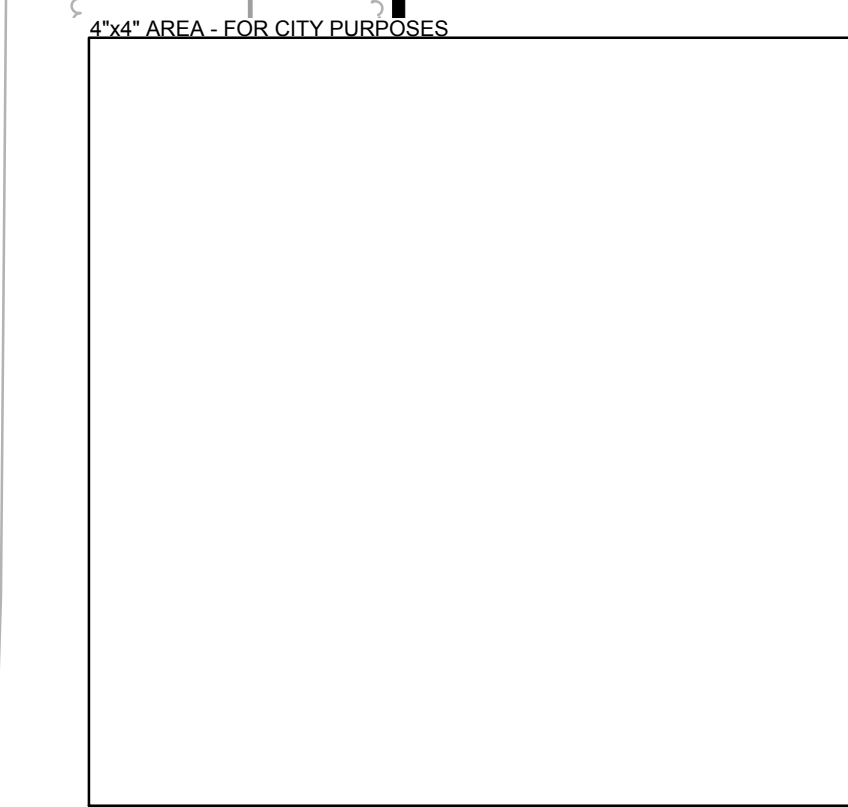
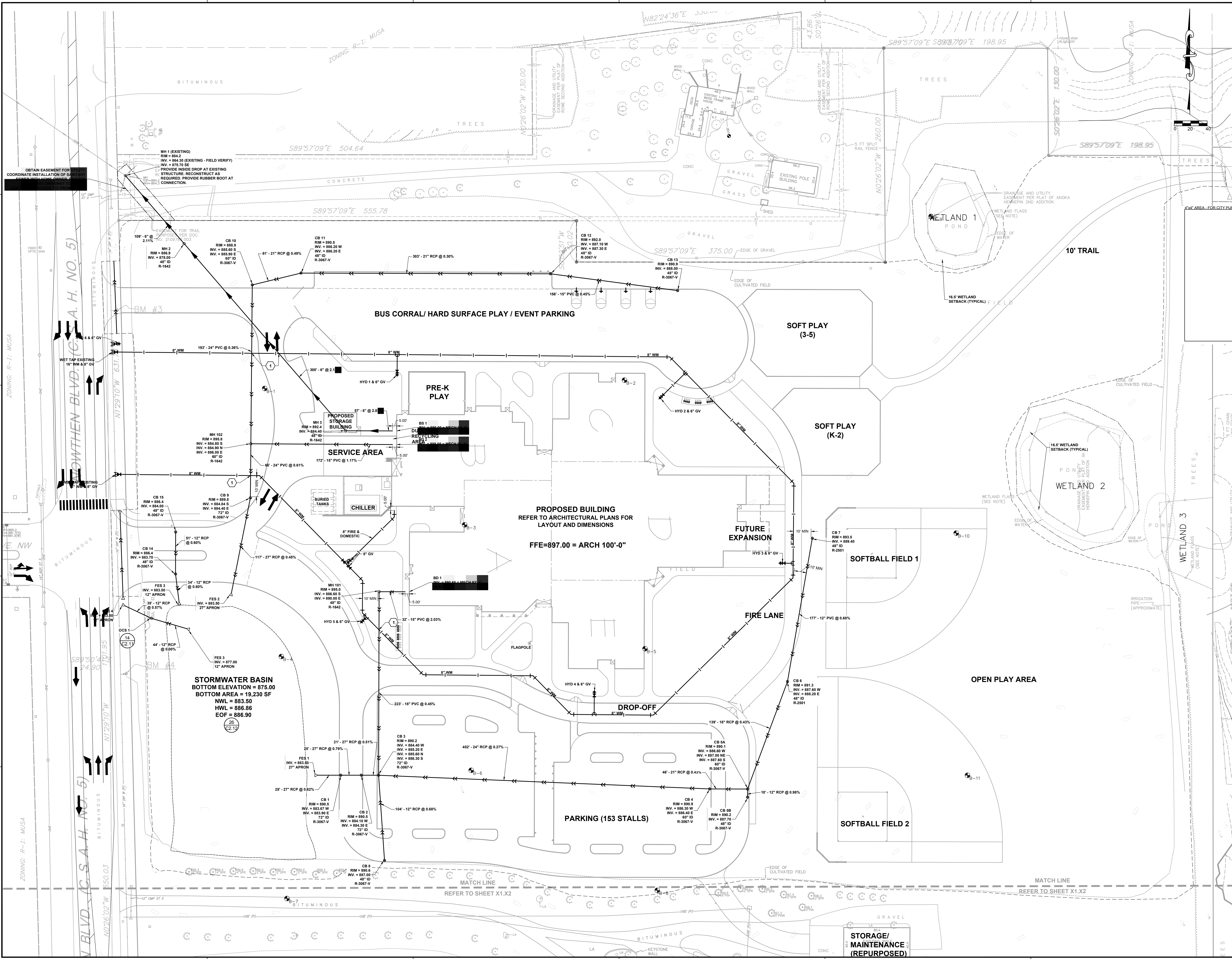
NO.	DESCRIPTION

DRAWN BY  
**CLG**  
CHECKED BY  
**JRP**

ISSUED FOR  
**CONSTRUCTION DOCUMENTS**  
ISSUE DATE  
**02/27/2018**

SHEET NAME  
**GRADING AND DRAINAGE PLAN (SOUTH)**

ATS&R PROJECT NO.  
**17119**  
SHEET NUMBER



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DAVID A. REY  
TYPED OR PRINTED NAME  
02-27-2018  
DATE  
40180  
LICENSE NUMBER

**REVISIONS**

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AGENCY

REVIEW

ISSUE DATE

12/08/2017

SHEET NAME

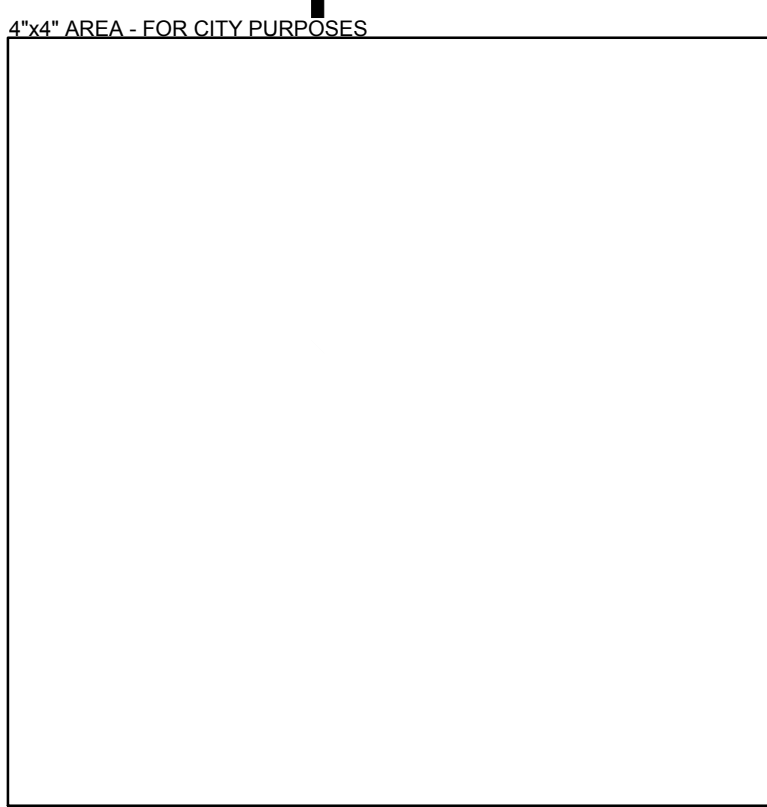
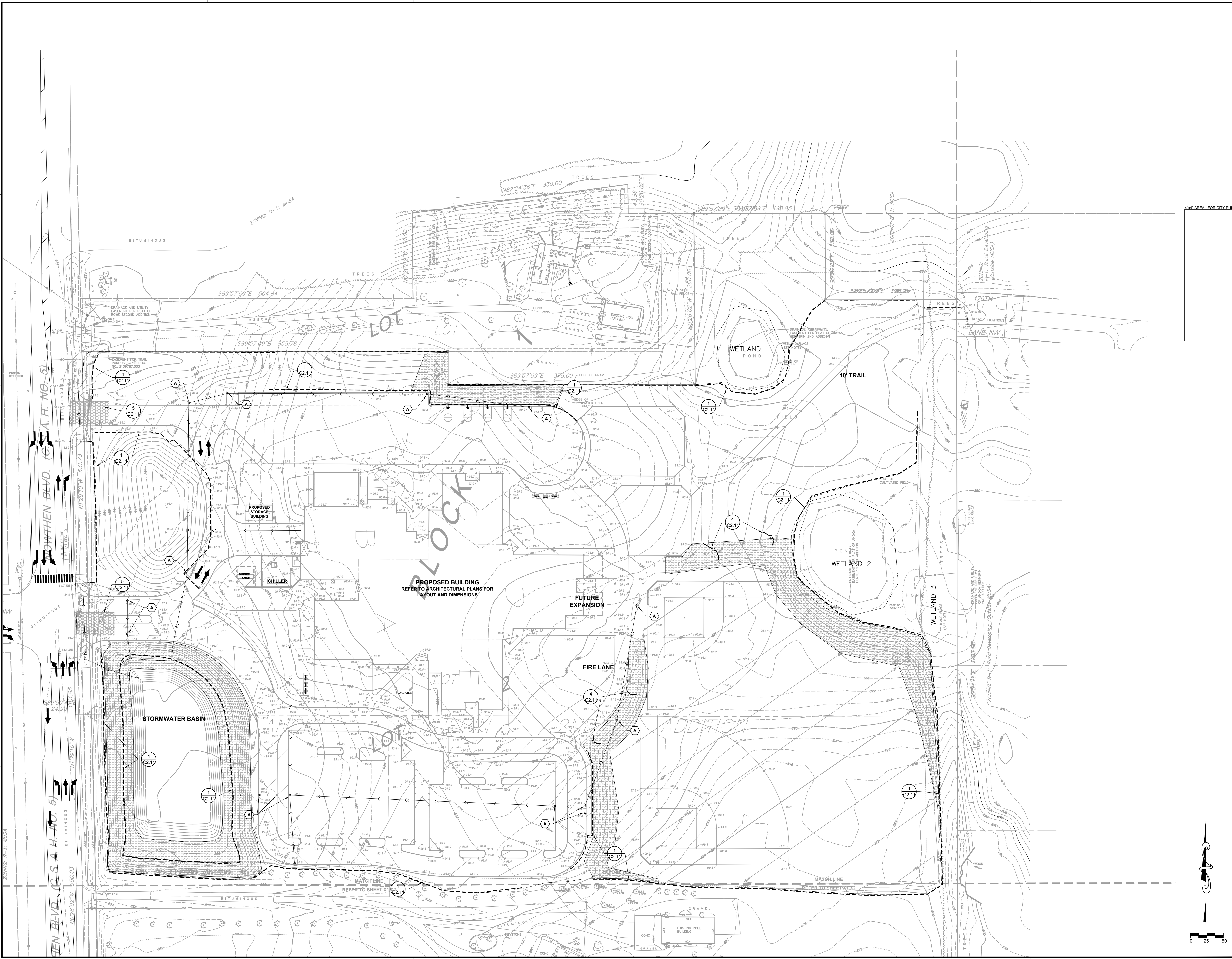
SITE UTILITY

PLAN

ATS&R PROJECT NO.

17113

SHEET NUMBER



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DATE: **02-27-2018**

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NO.	DATE	DESCRIPTION

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AGENCY

REVIEW

ISSUE DATE

12/08/2017

SHEET NAME

SEDIMENT AND EROSION CONTROL

PLAN (S&EPPP)

ATS&R PROJECT NO.

17119

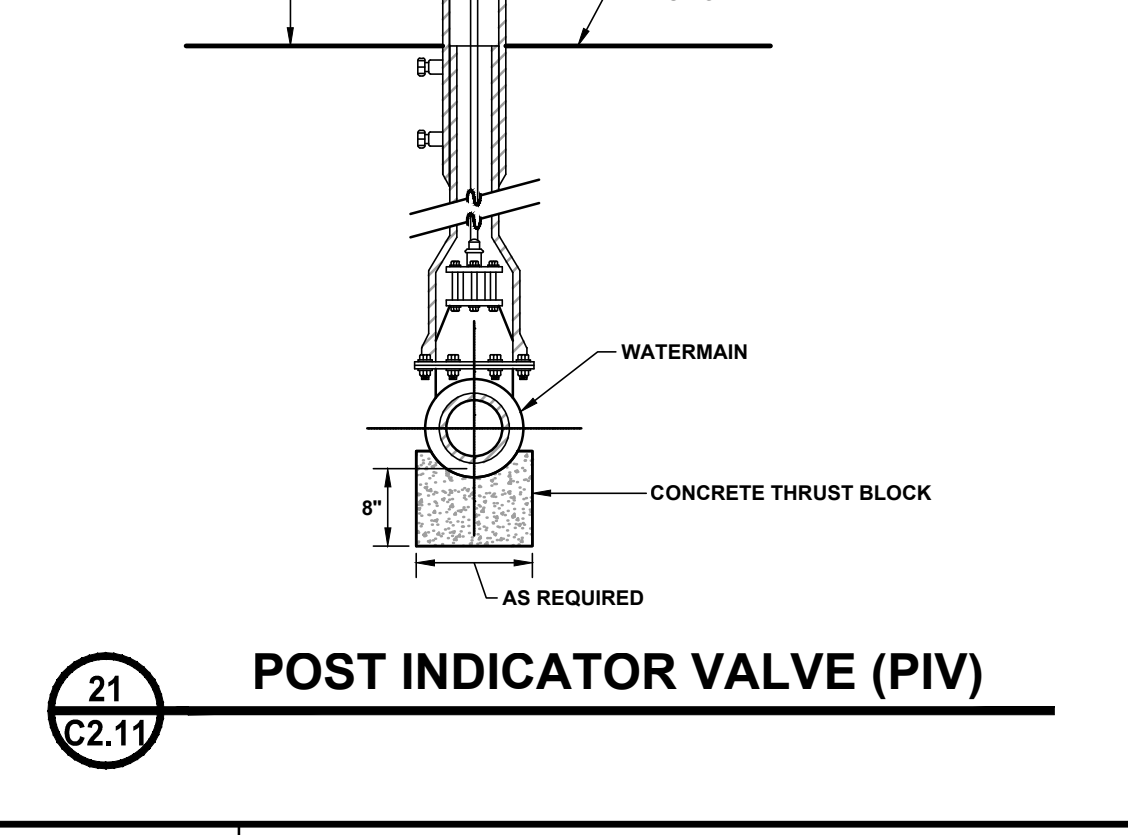
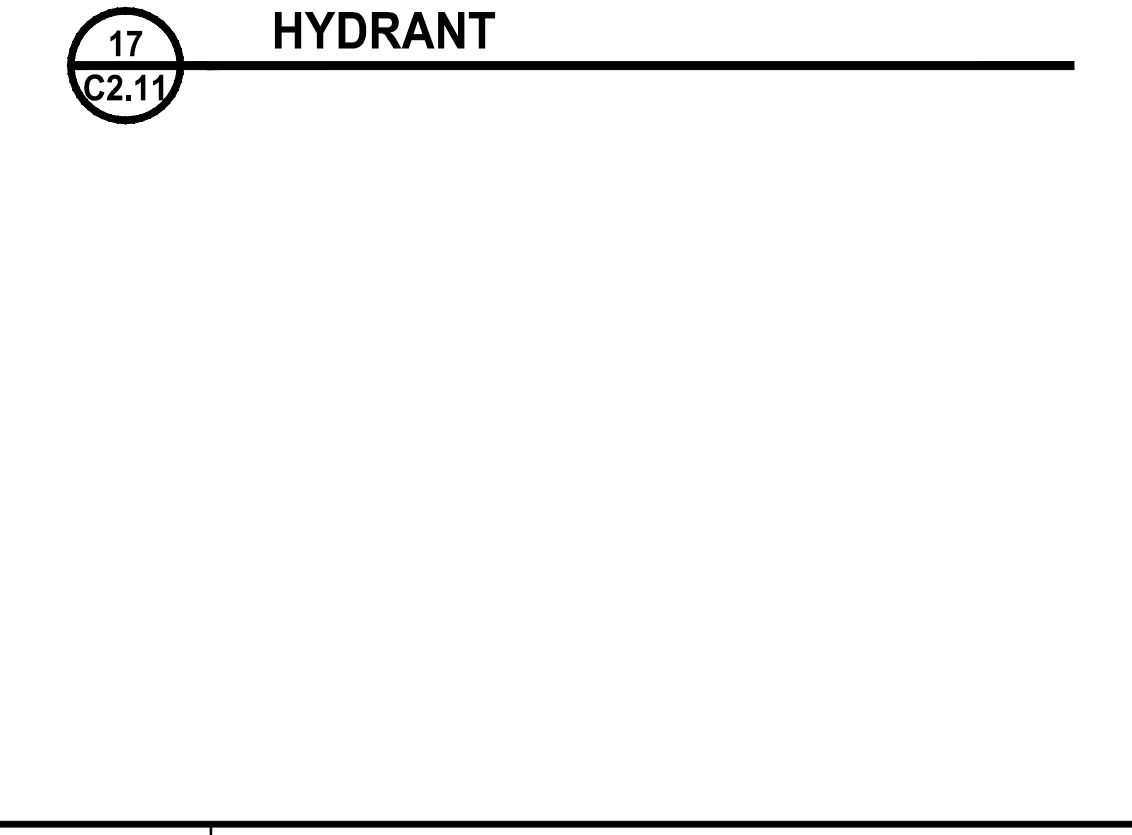
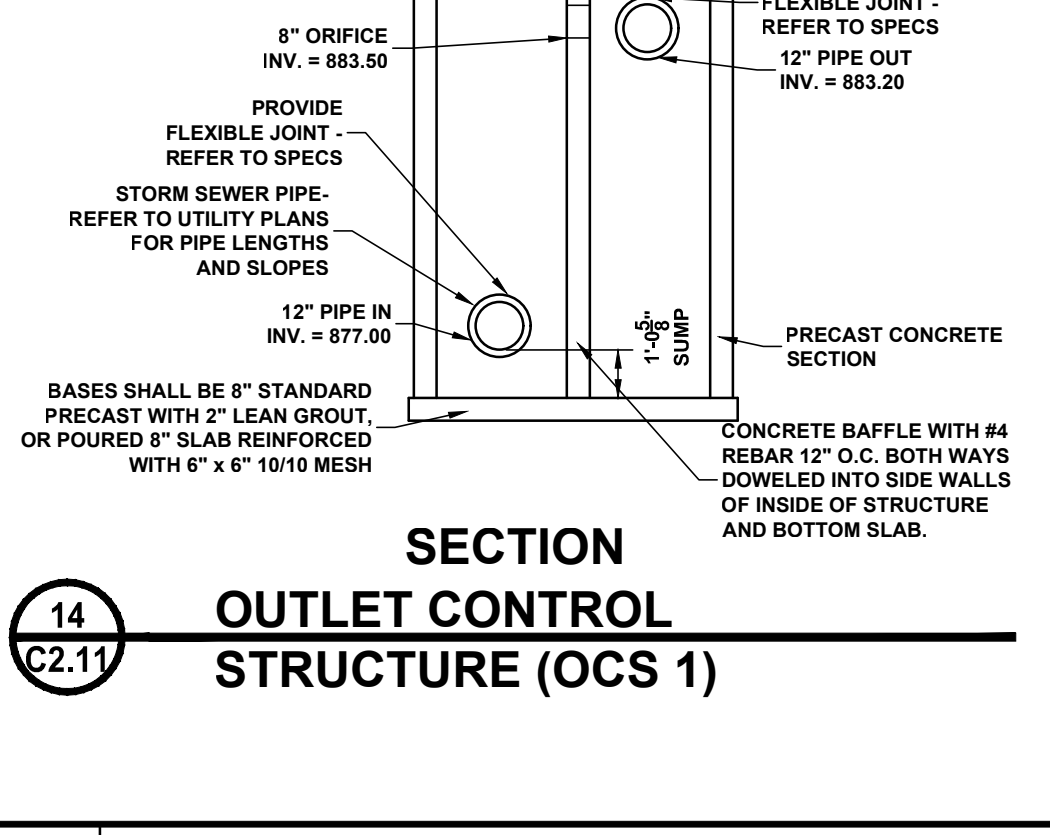
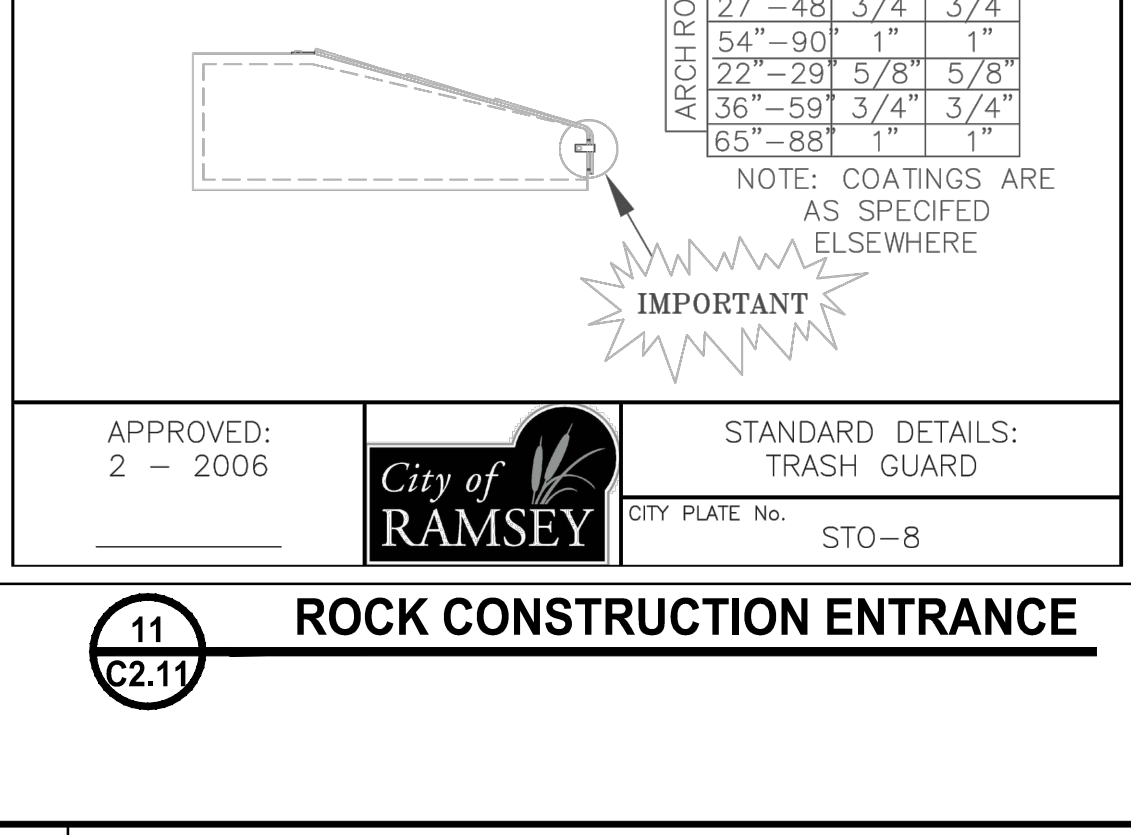
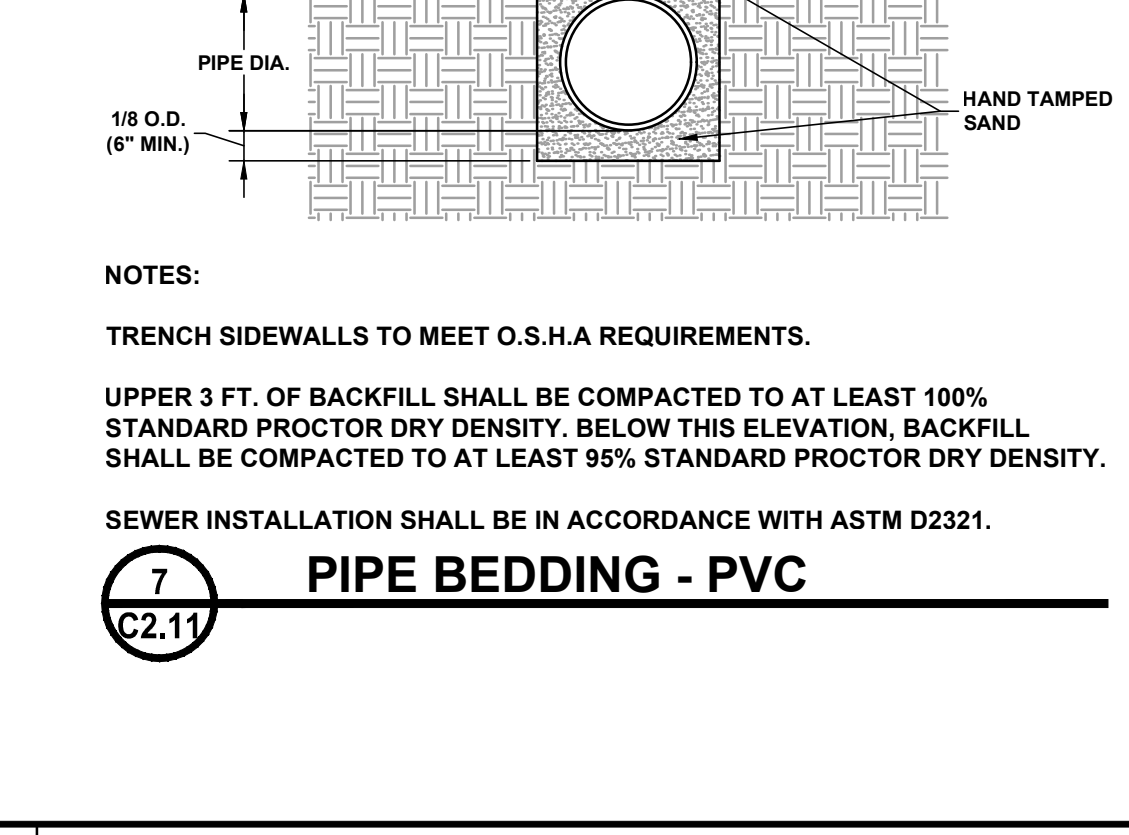
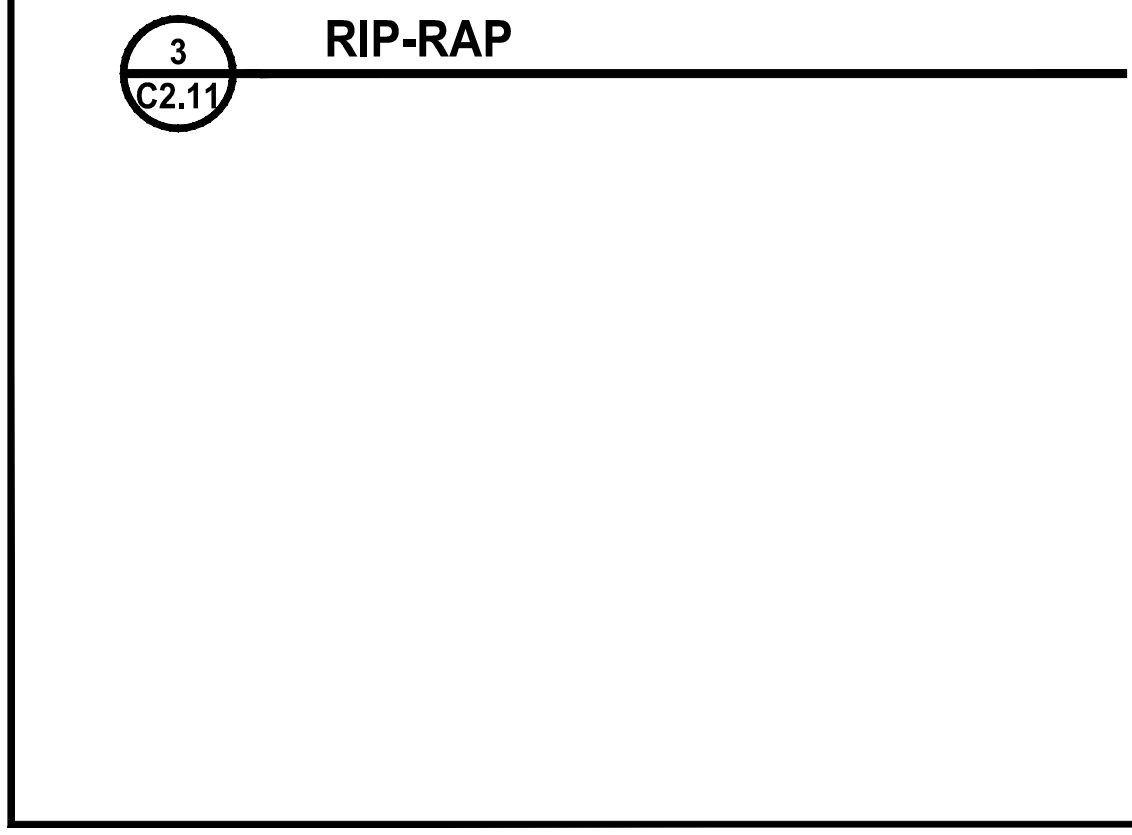
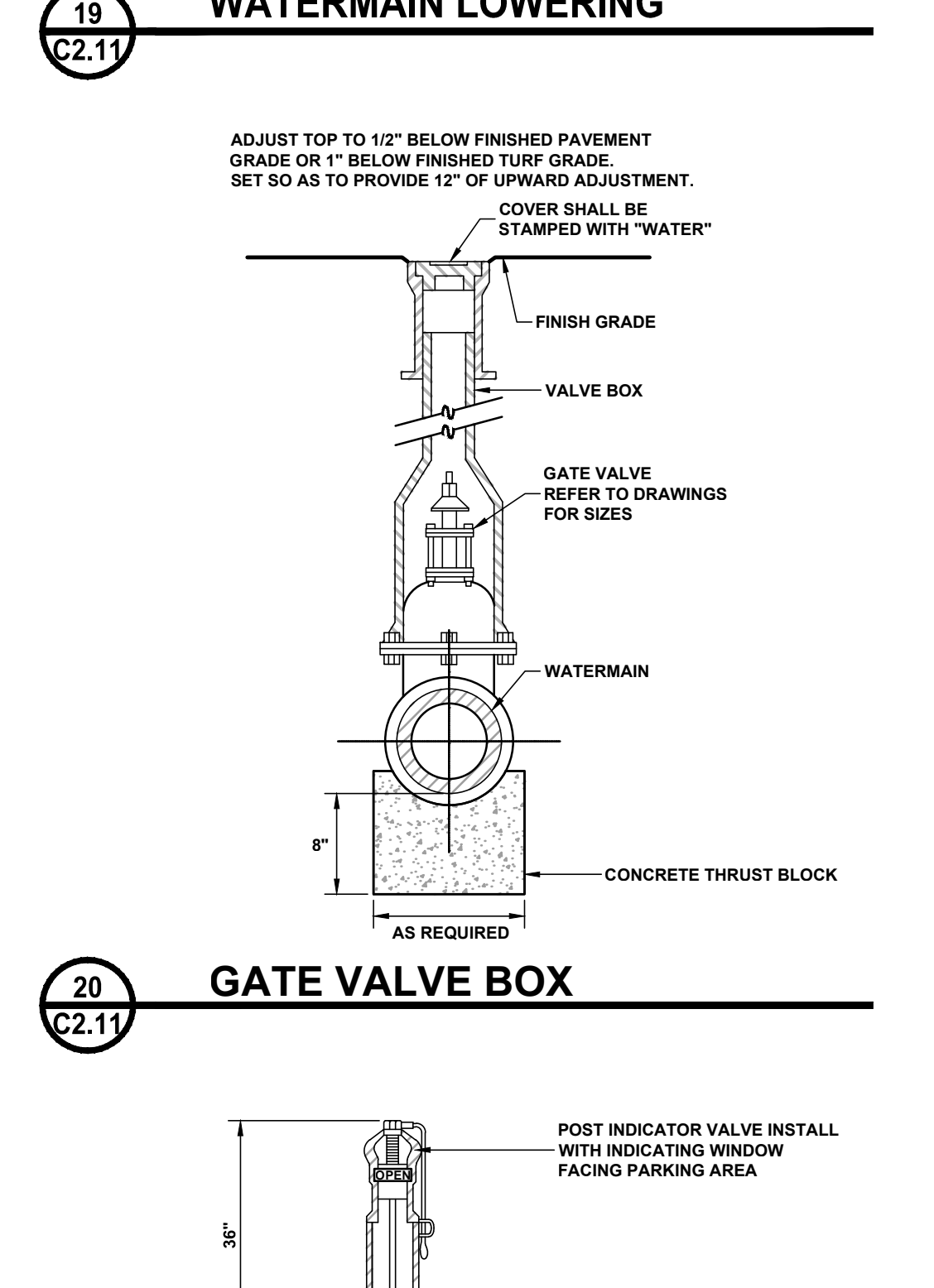
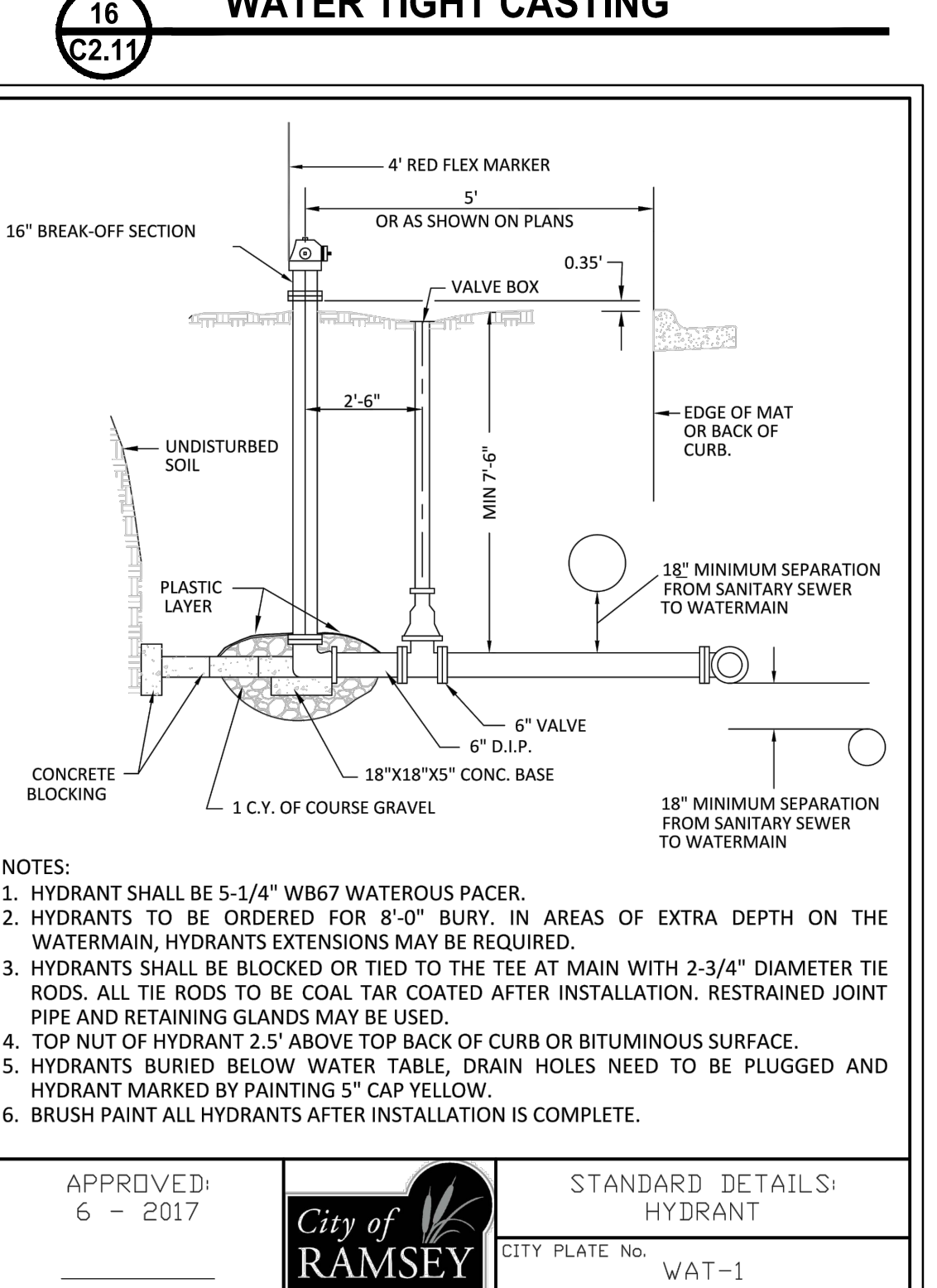
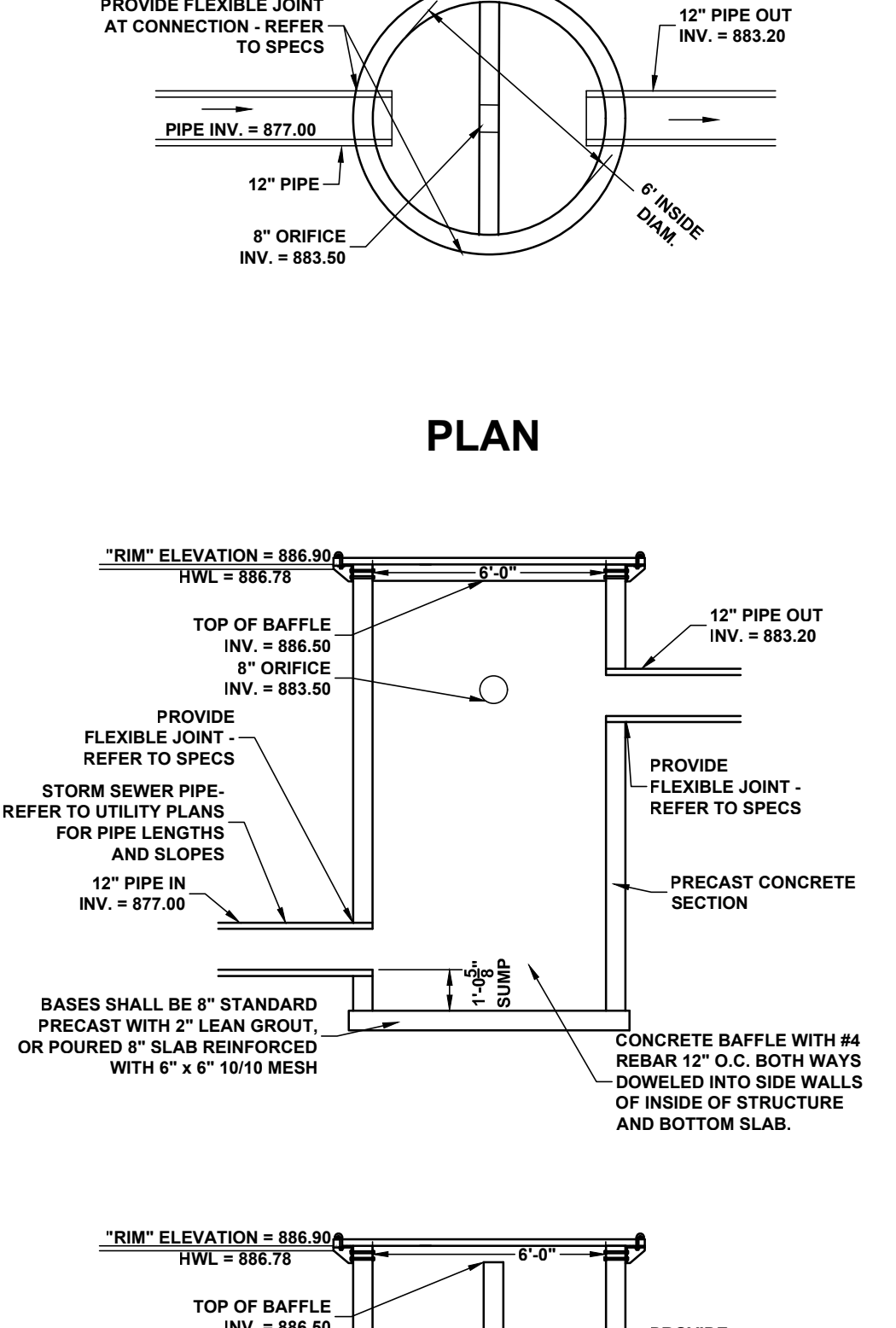
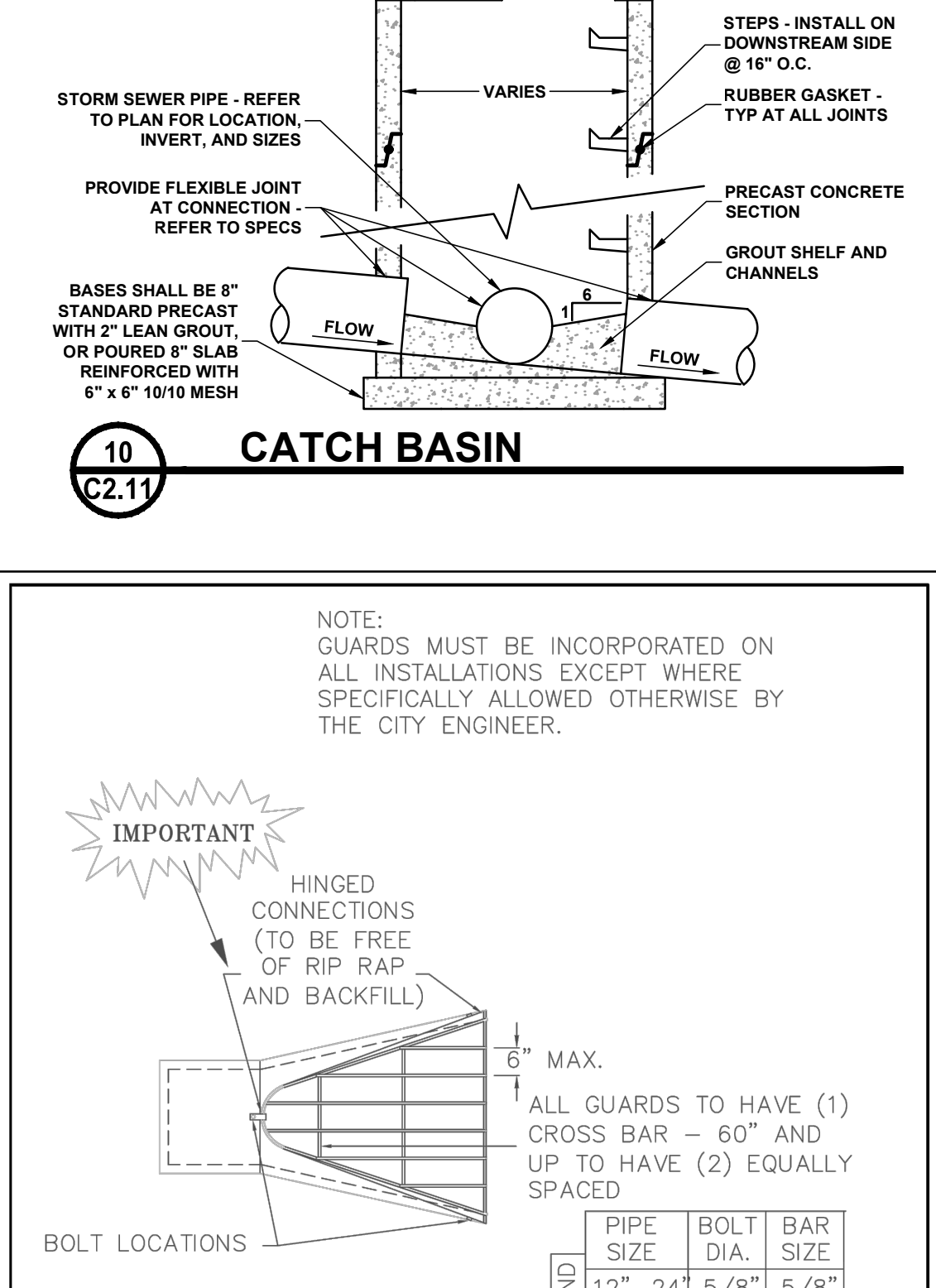
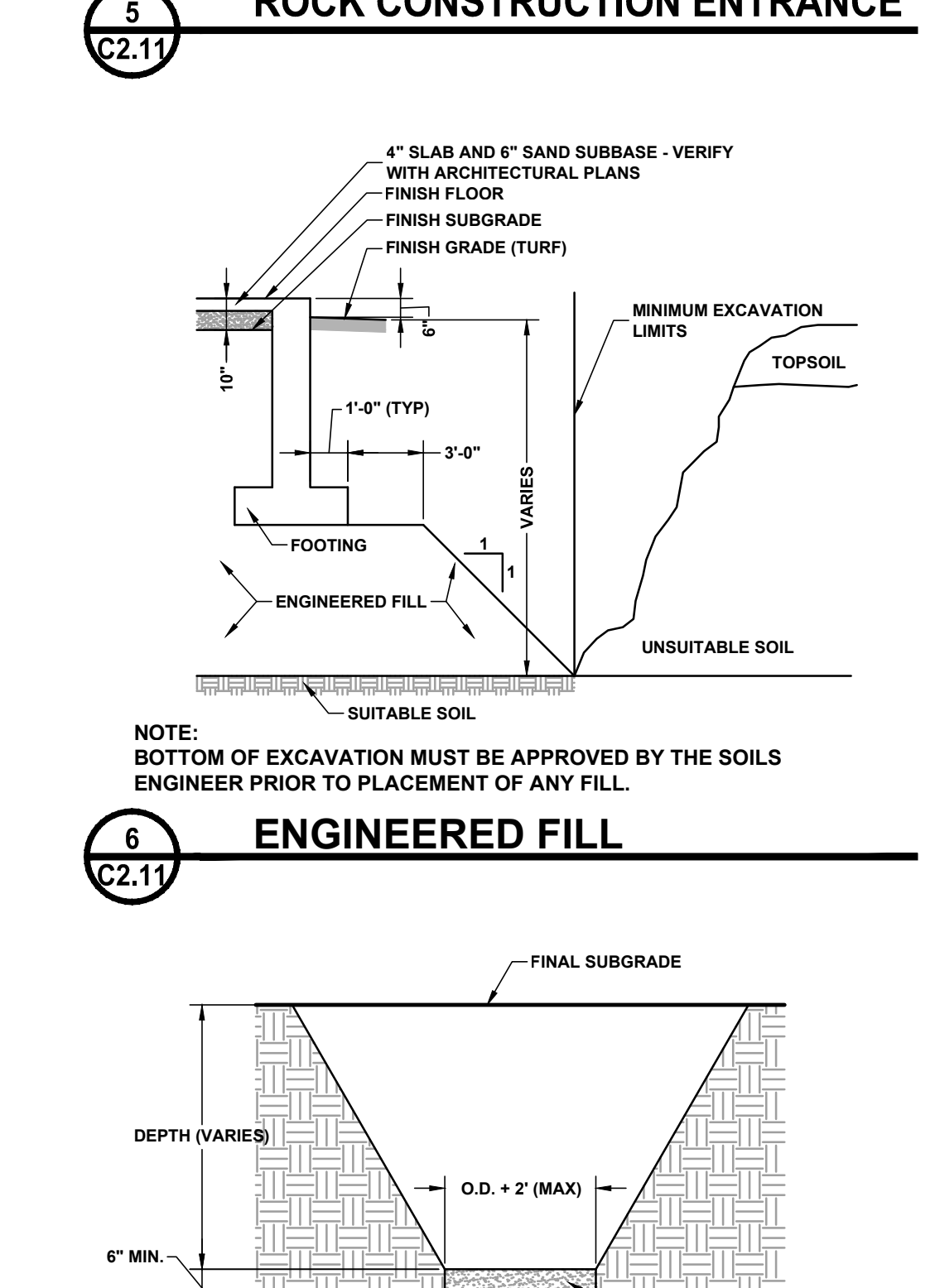
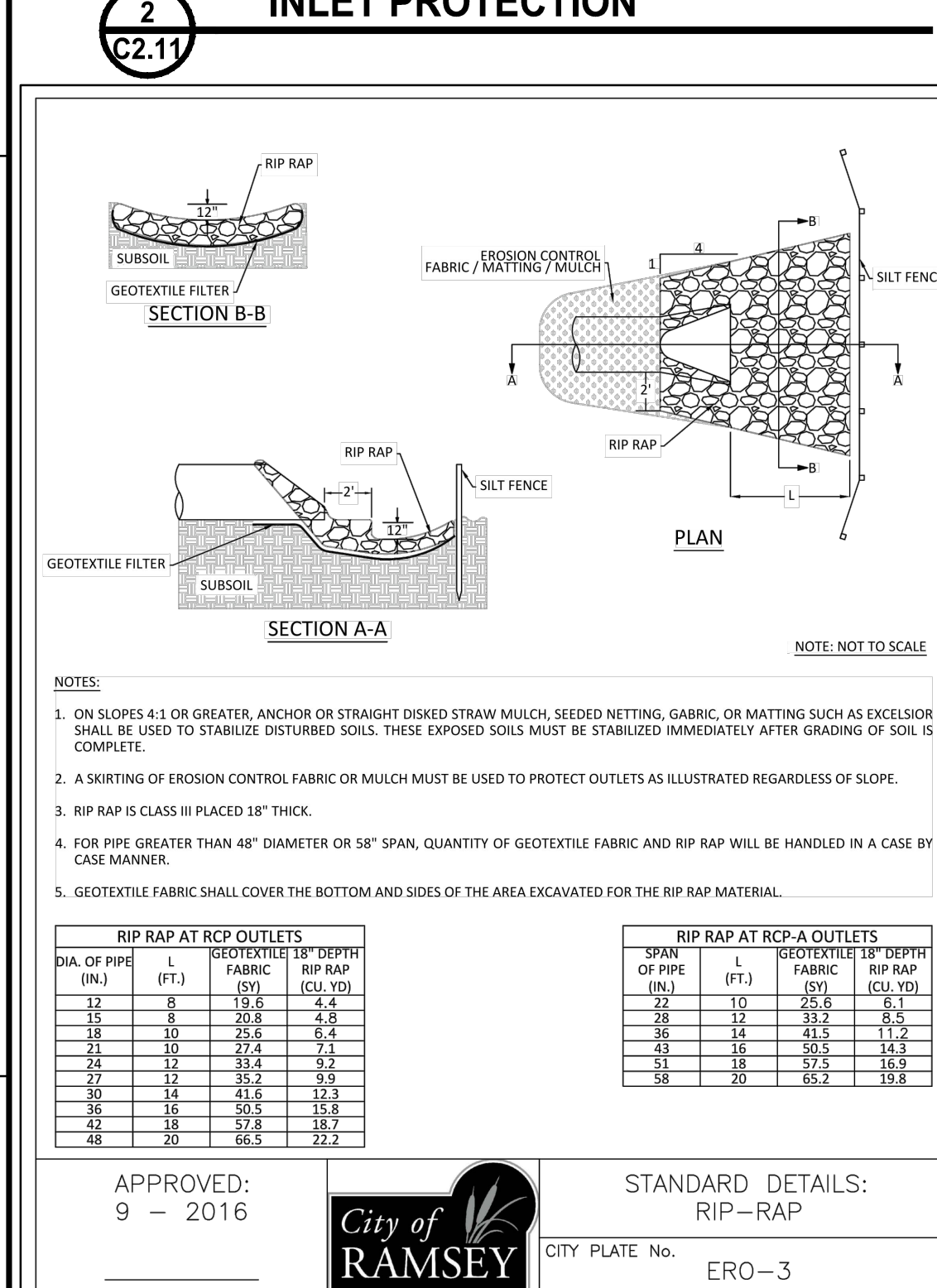
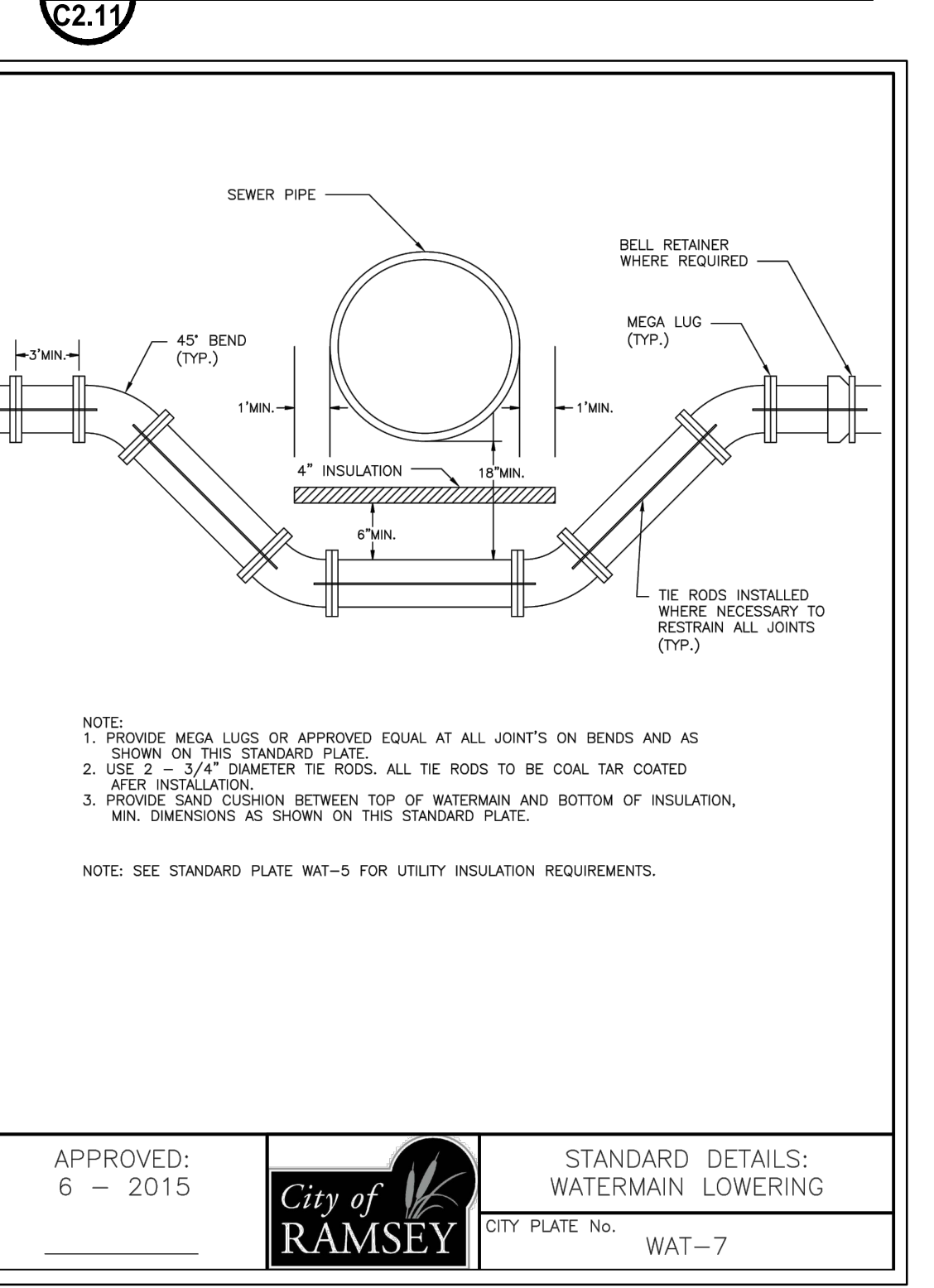
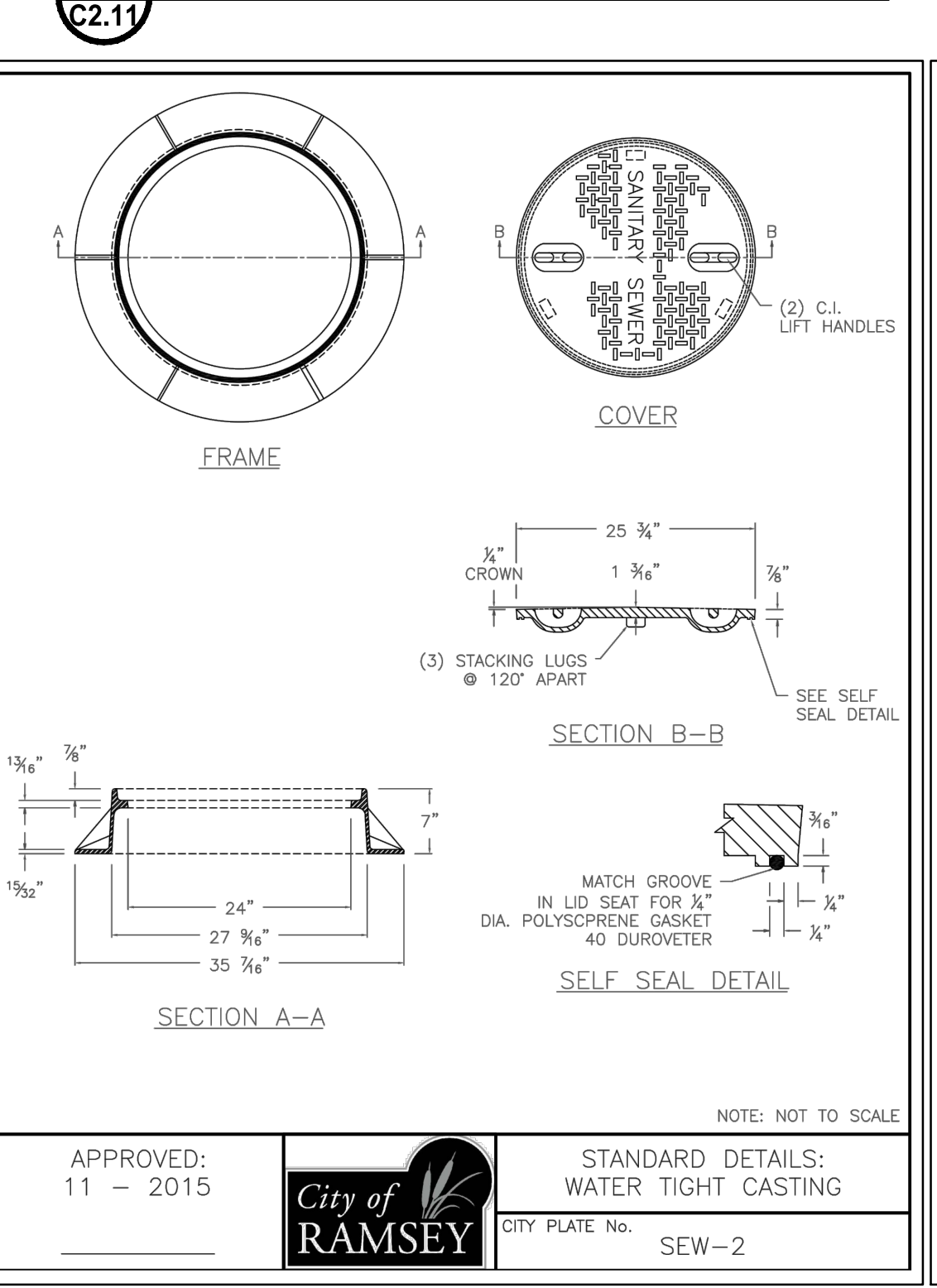
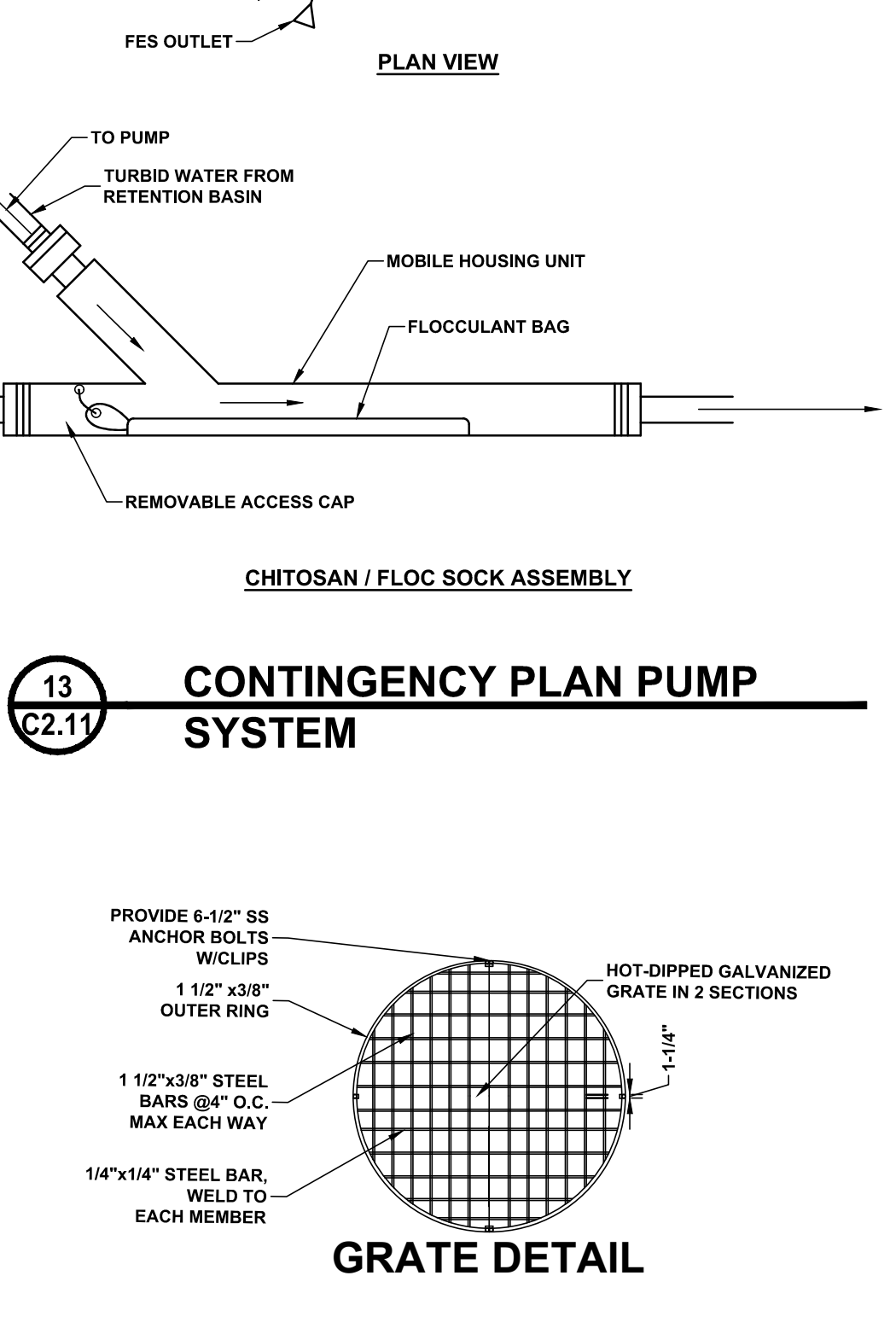
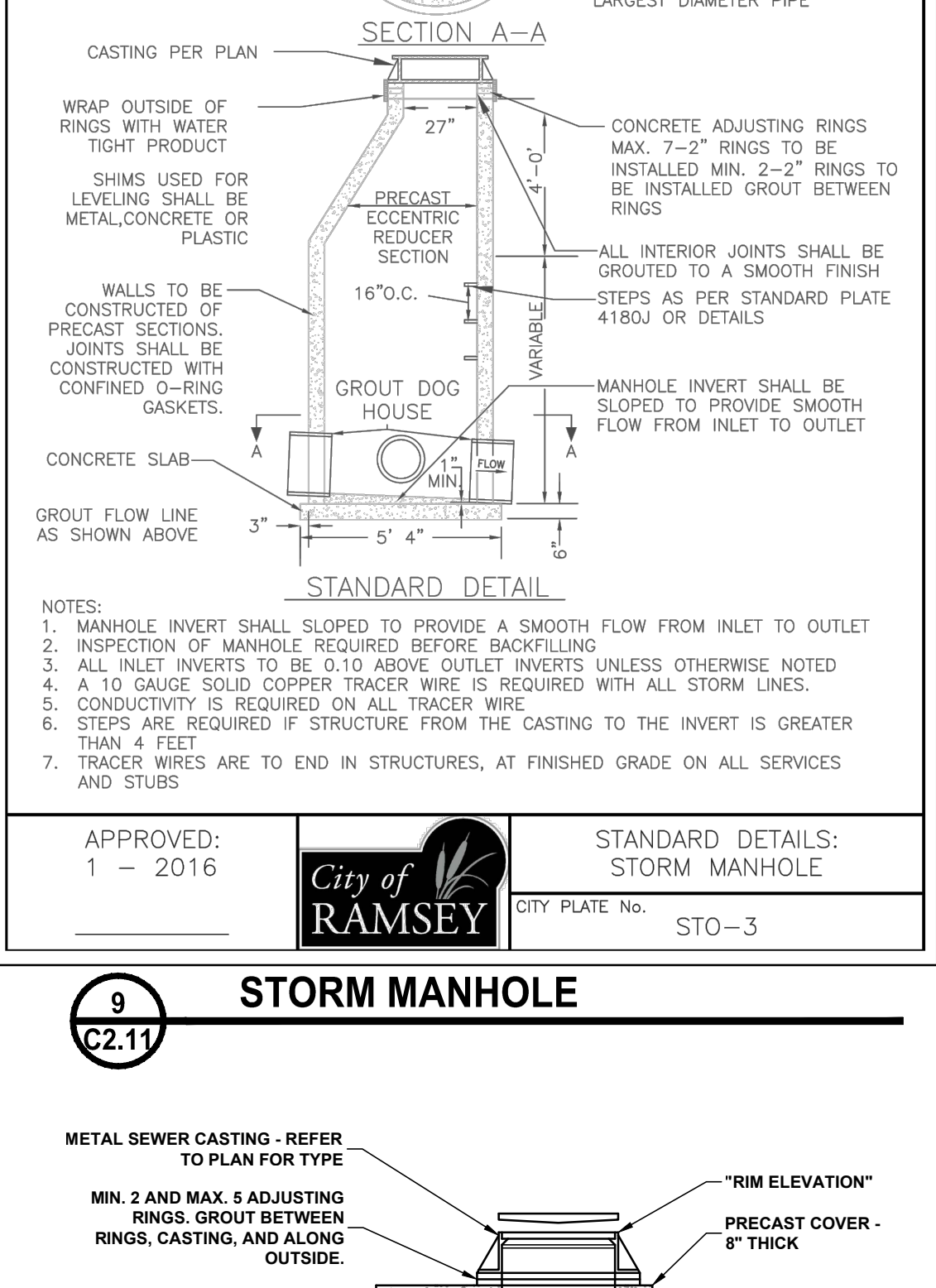
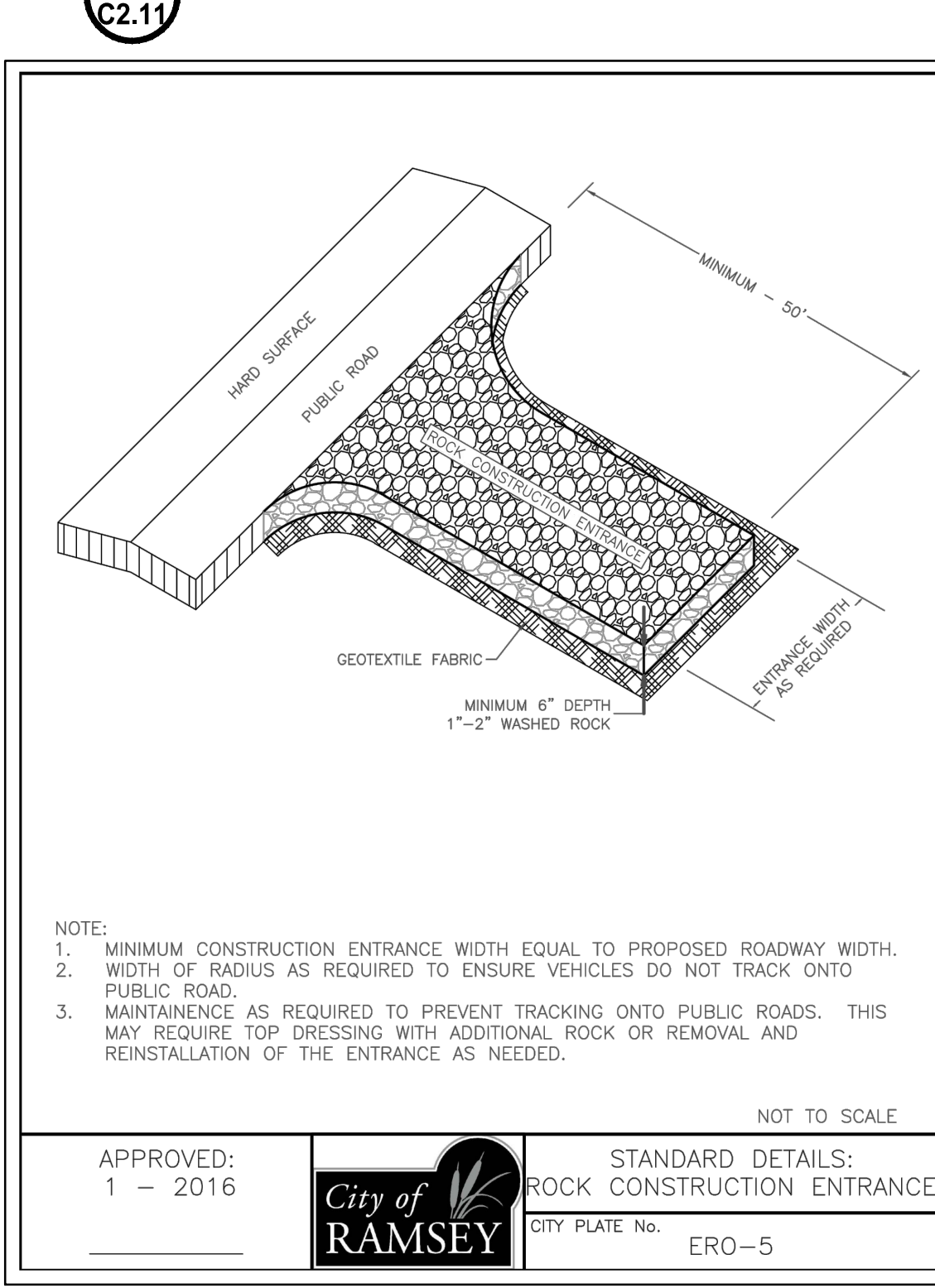
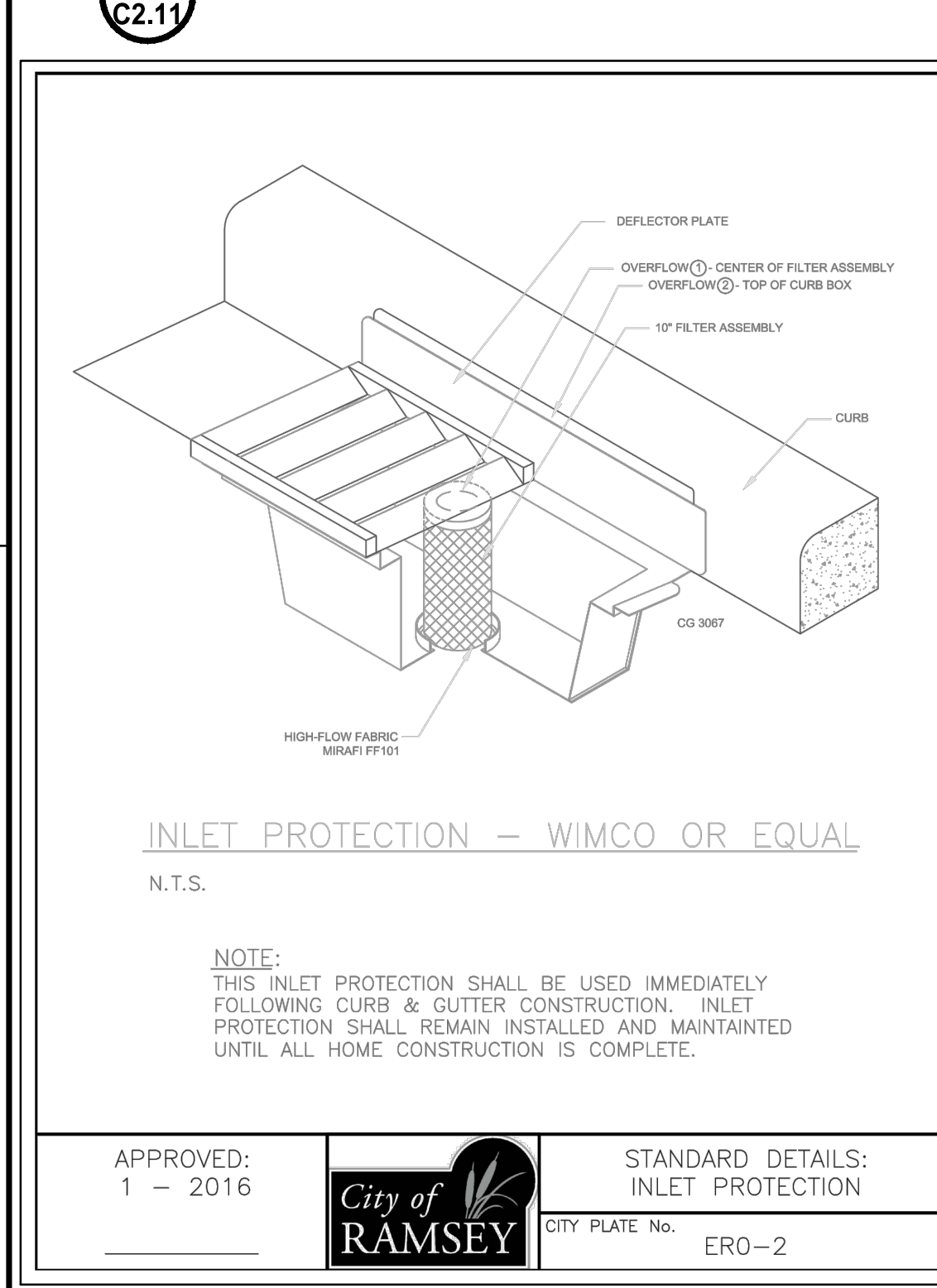
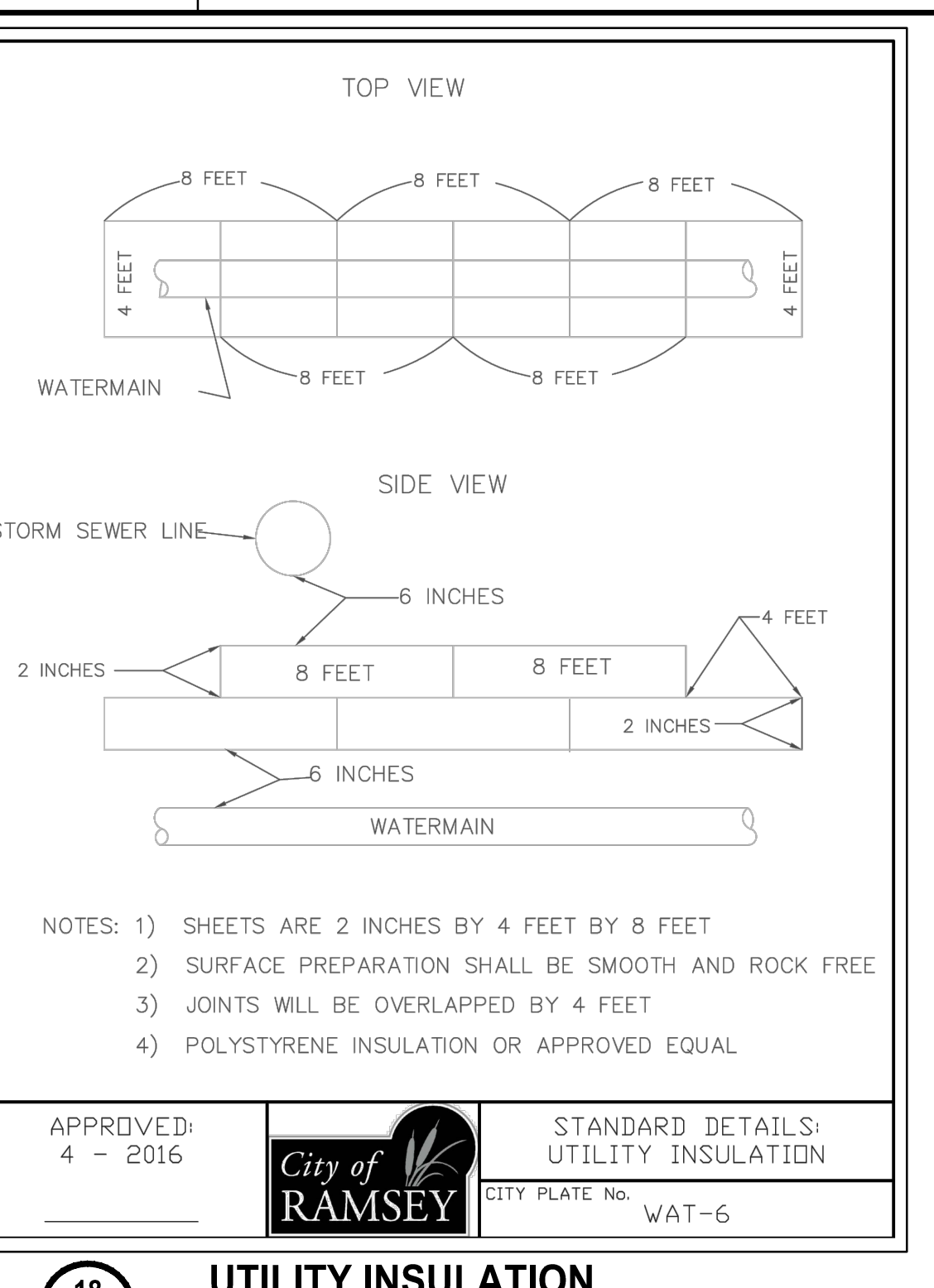
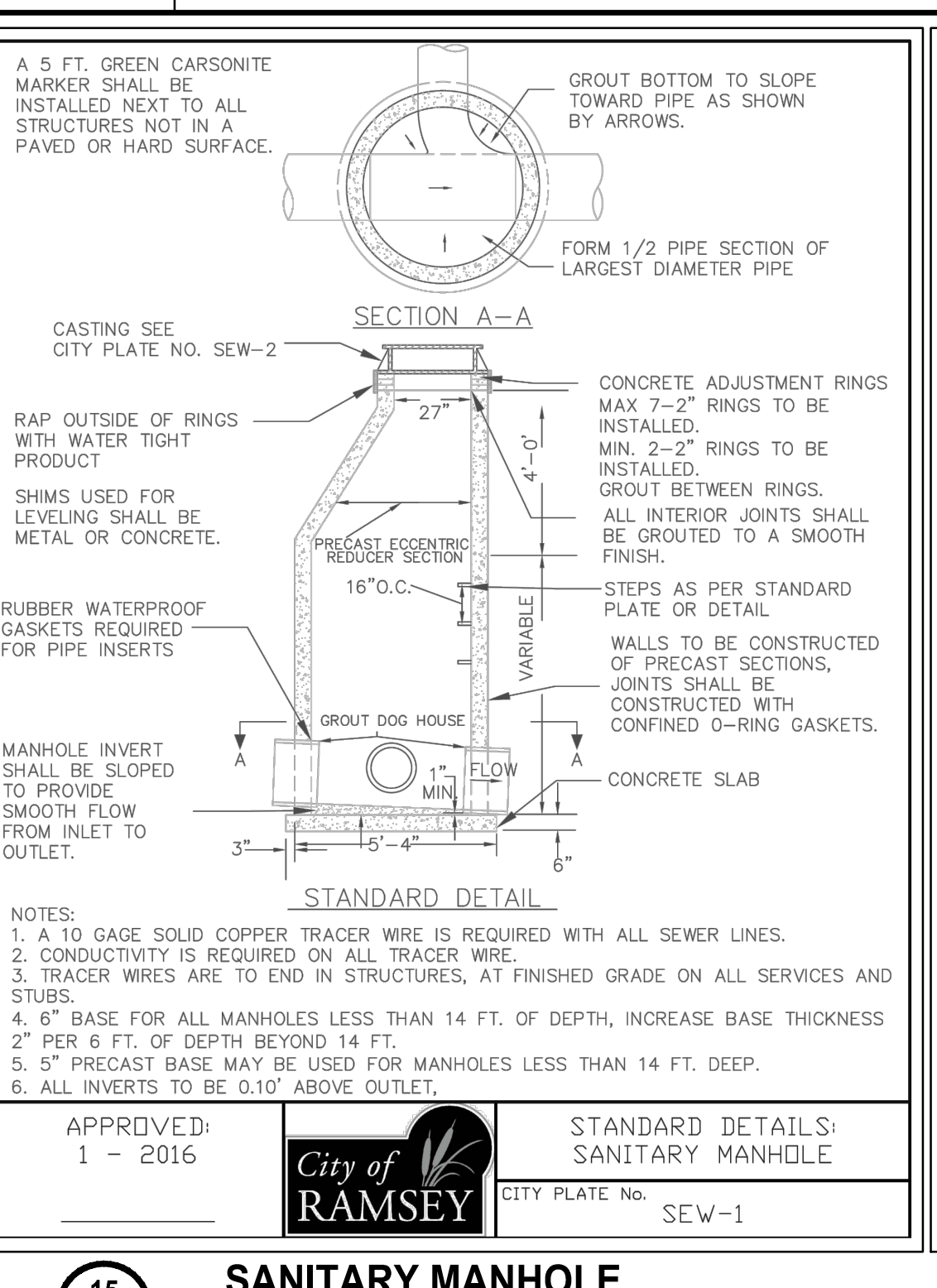
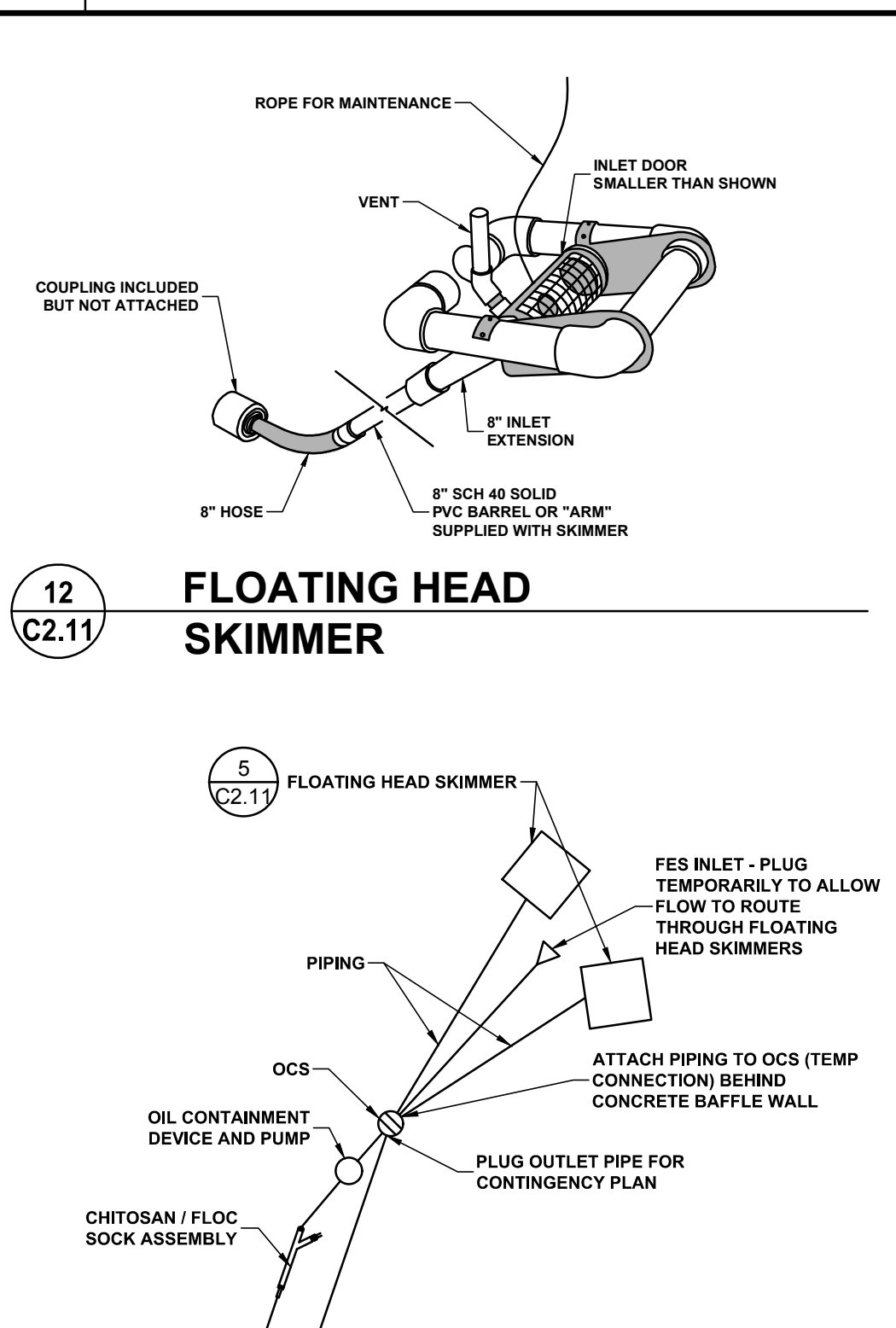
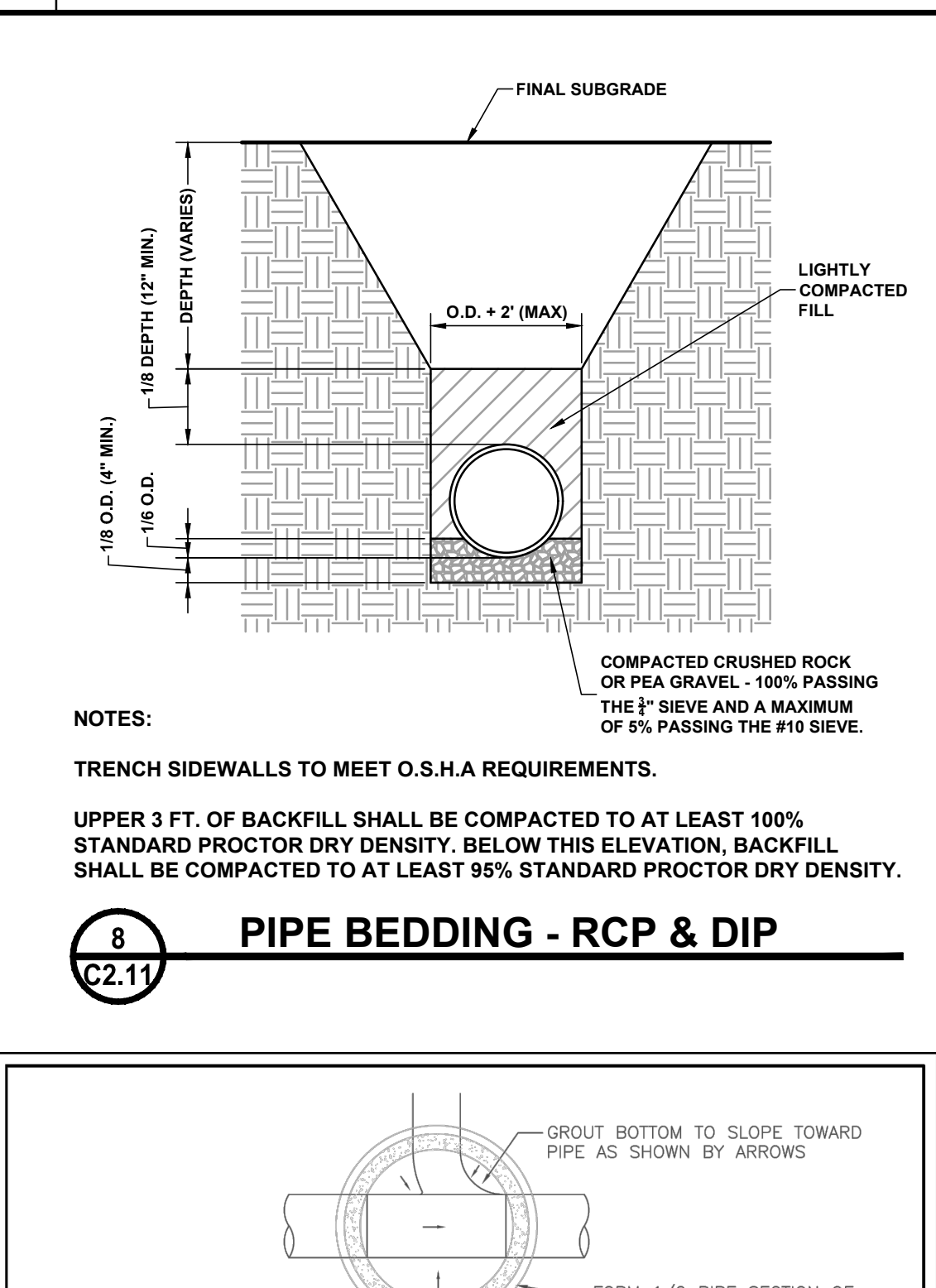
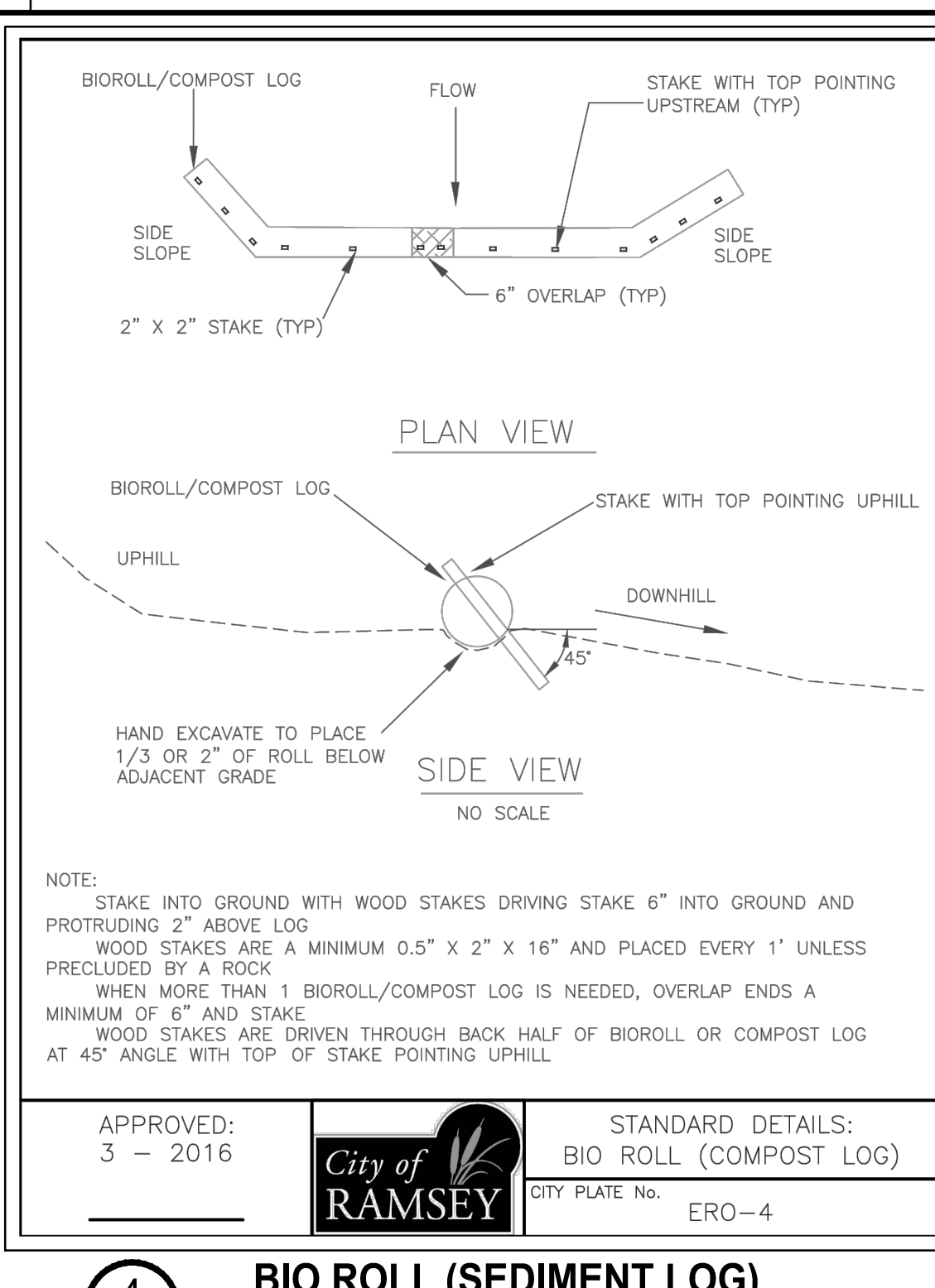
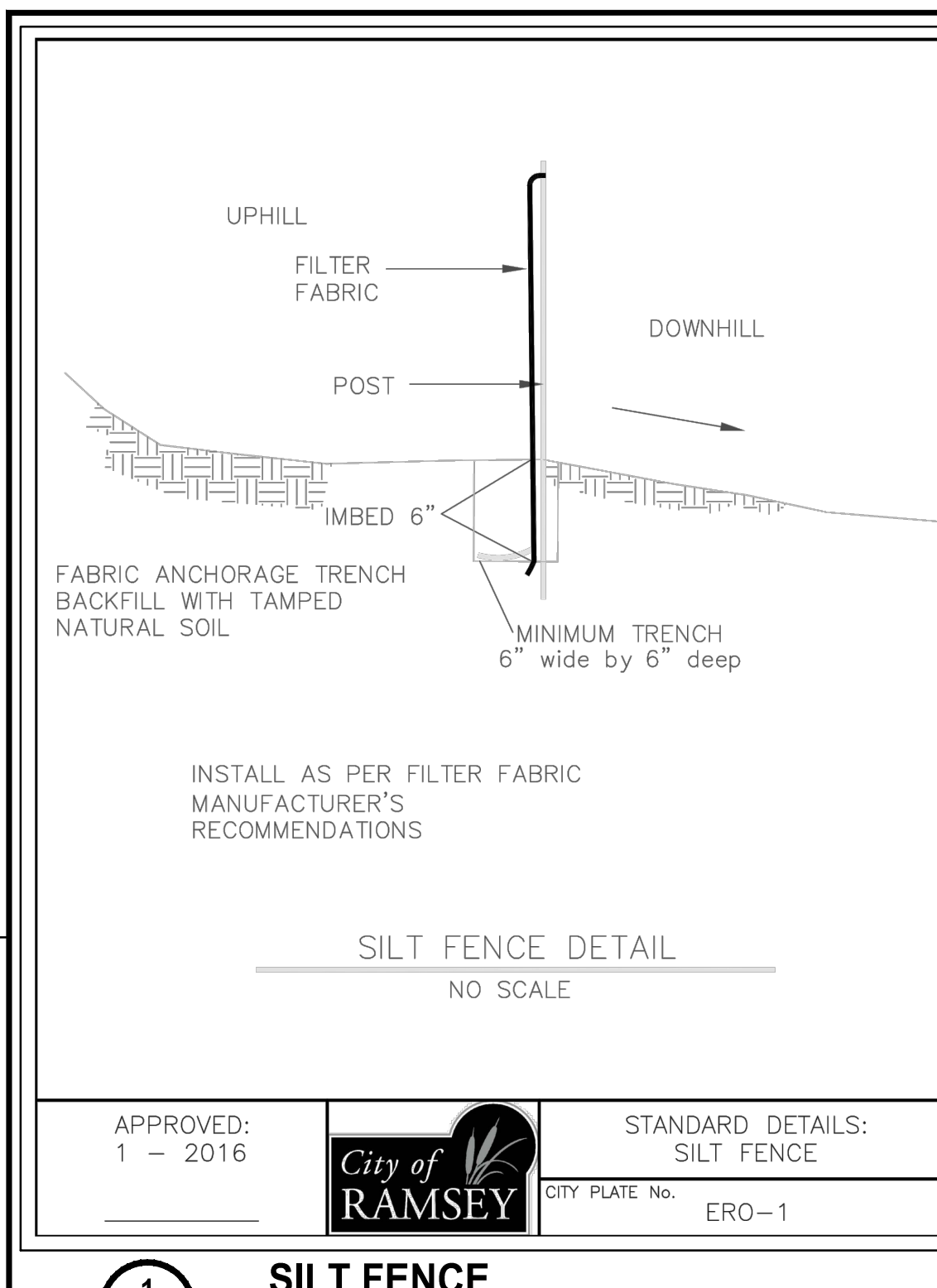
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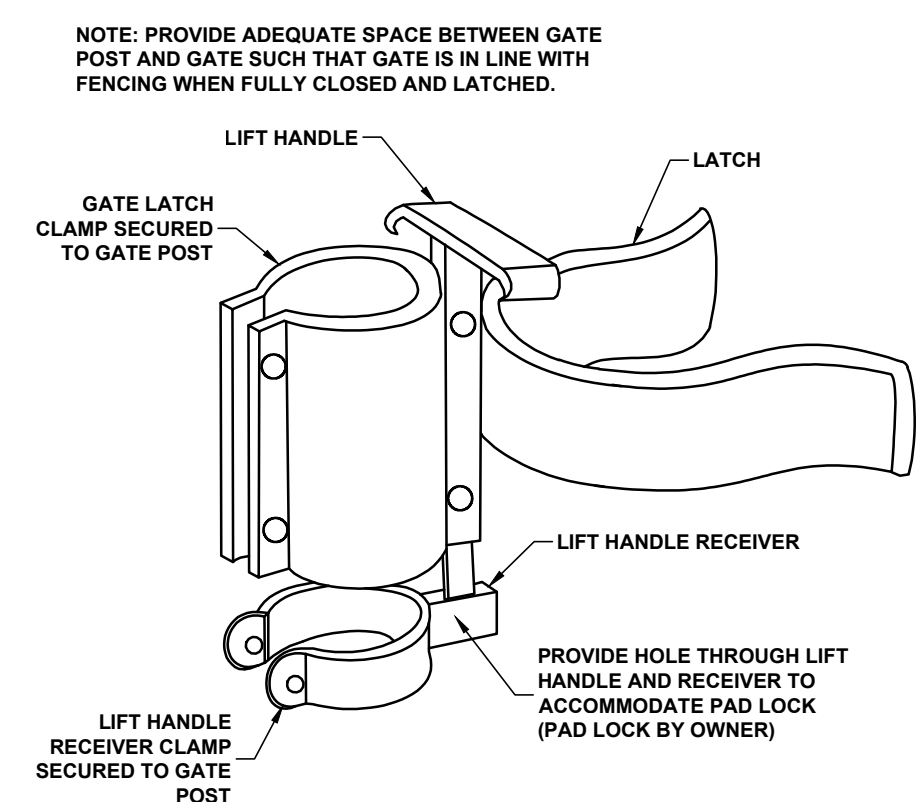
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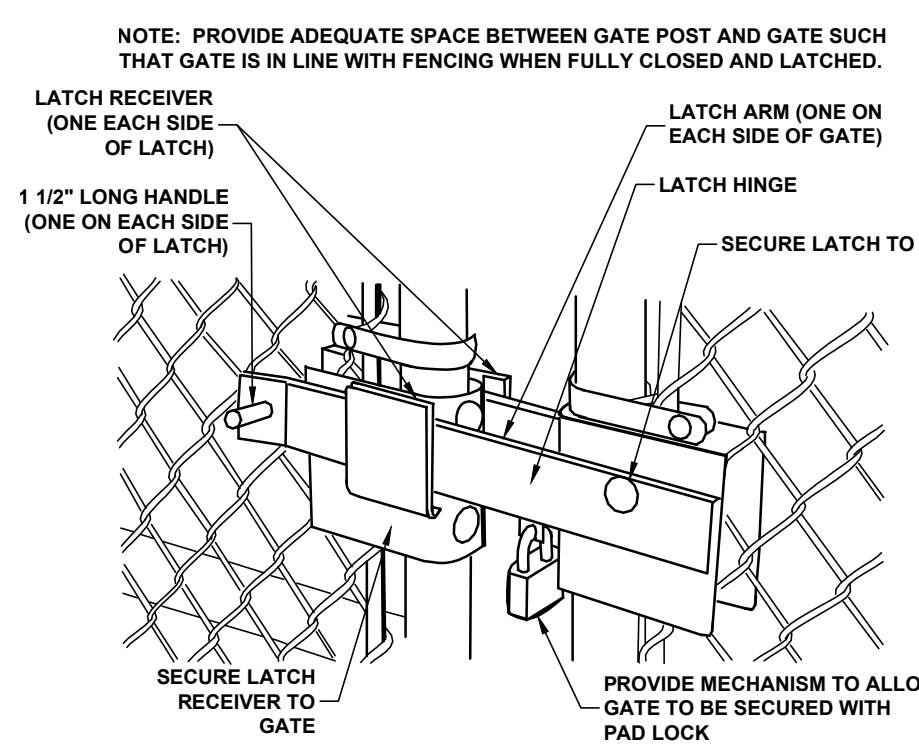
**NEW RAMSEY ELEMENTARY SCHOOL**  
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 02-27-2018  
 DATE  
 40180  
 LICENSE NUMBER  
**REVISIONS**  
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 CHECKED BY  
 JRP  
 ISSUED FOR  
**CONSTRUCTION DOCUMENTS**  
 ISSUE DATE  
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 SHEET NAME  
**SITE DETAILS**  
 AT&S&R PROJECT NO.  
 17119  
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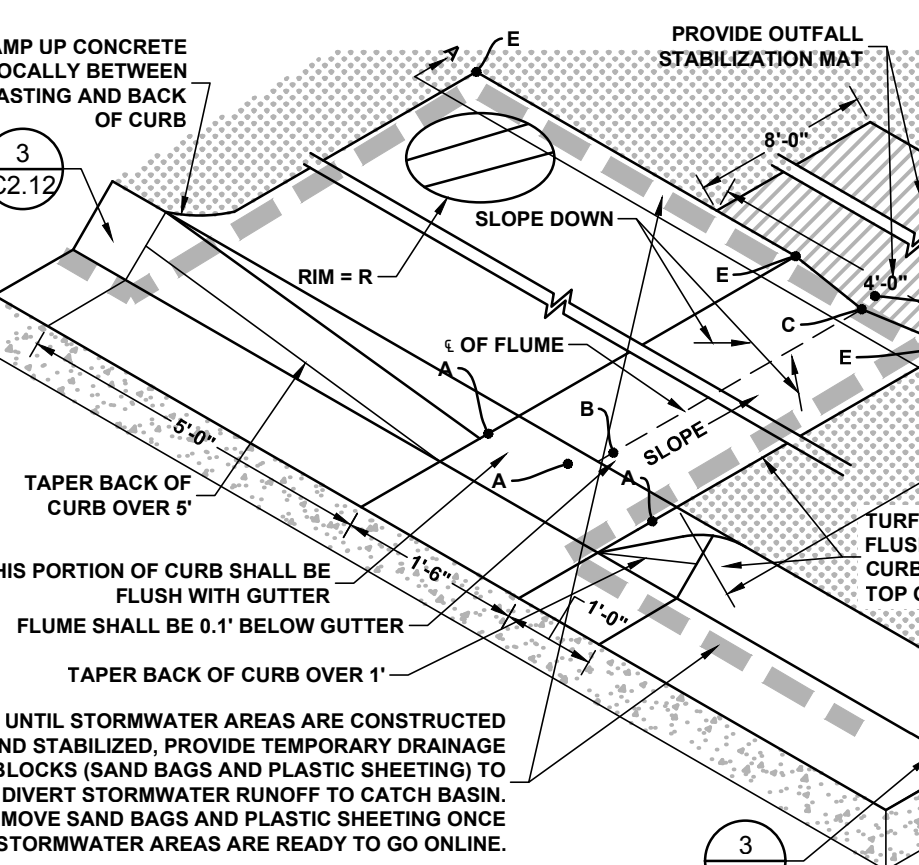




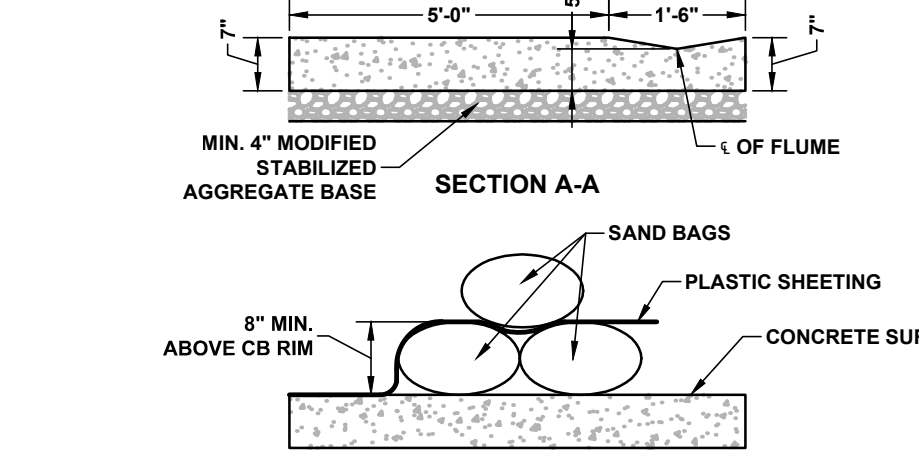
**1 SINGLE SWING GATE LATCH**  
C2.13



**2 DOUBLE SWING GATE LATCH**  
C2.13



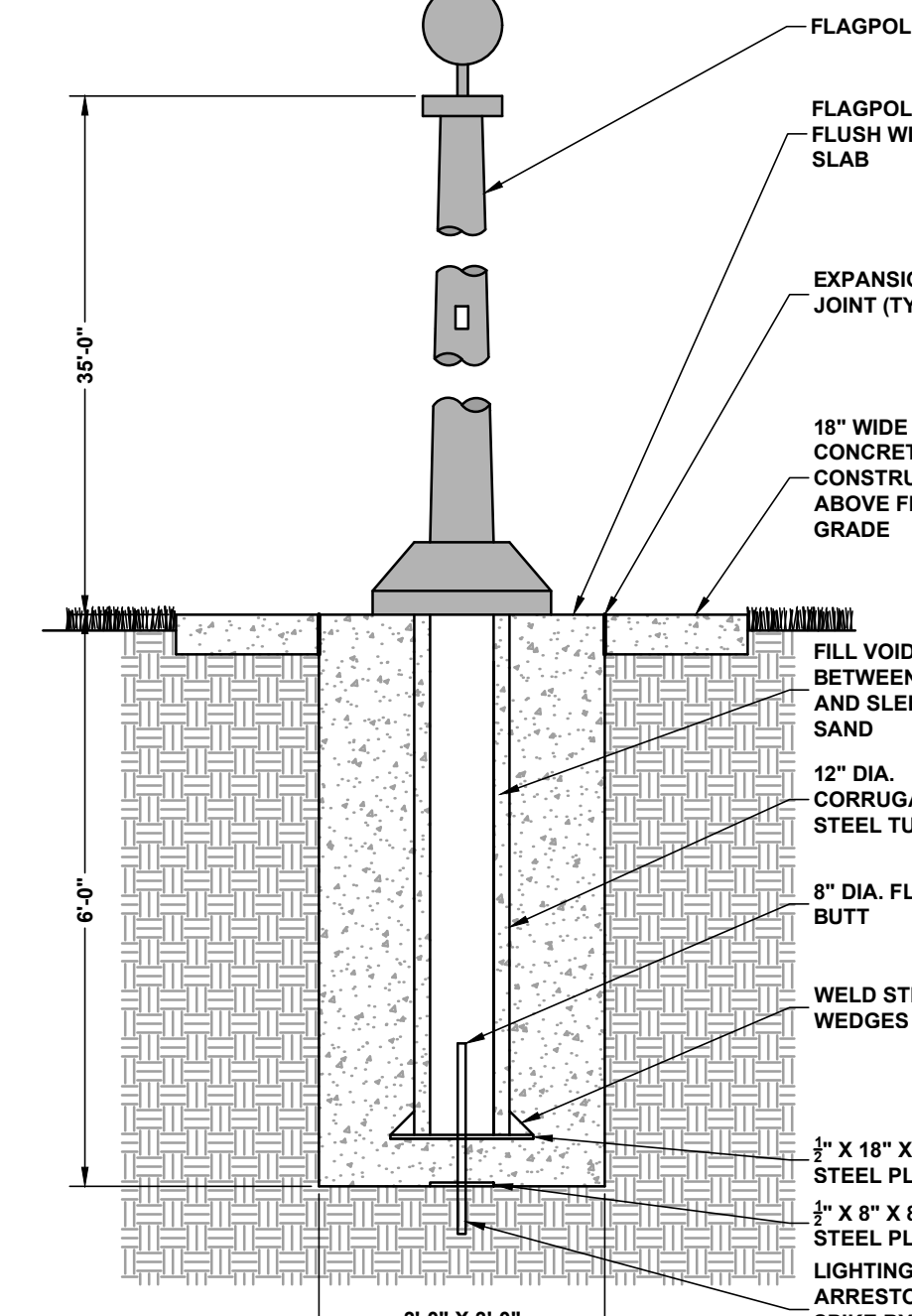
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C2.13



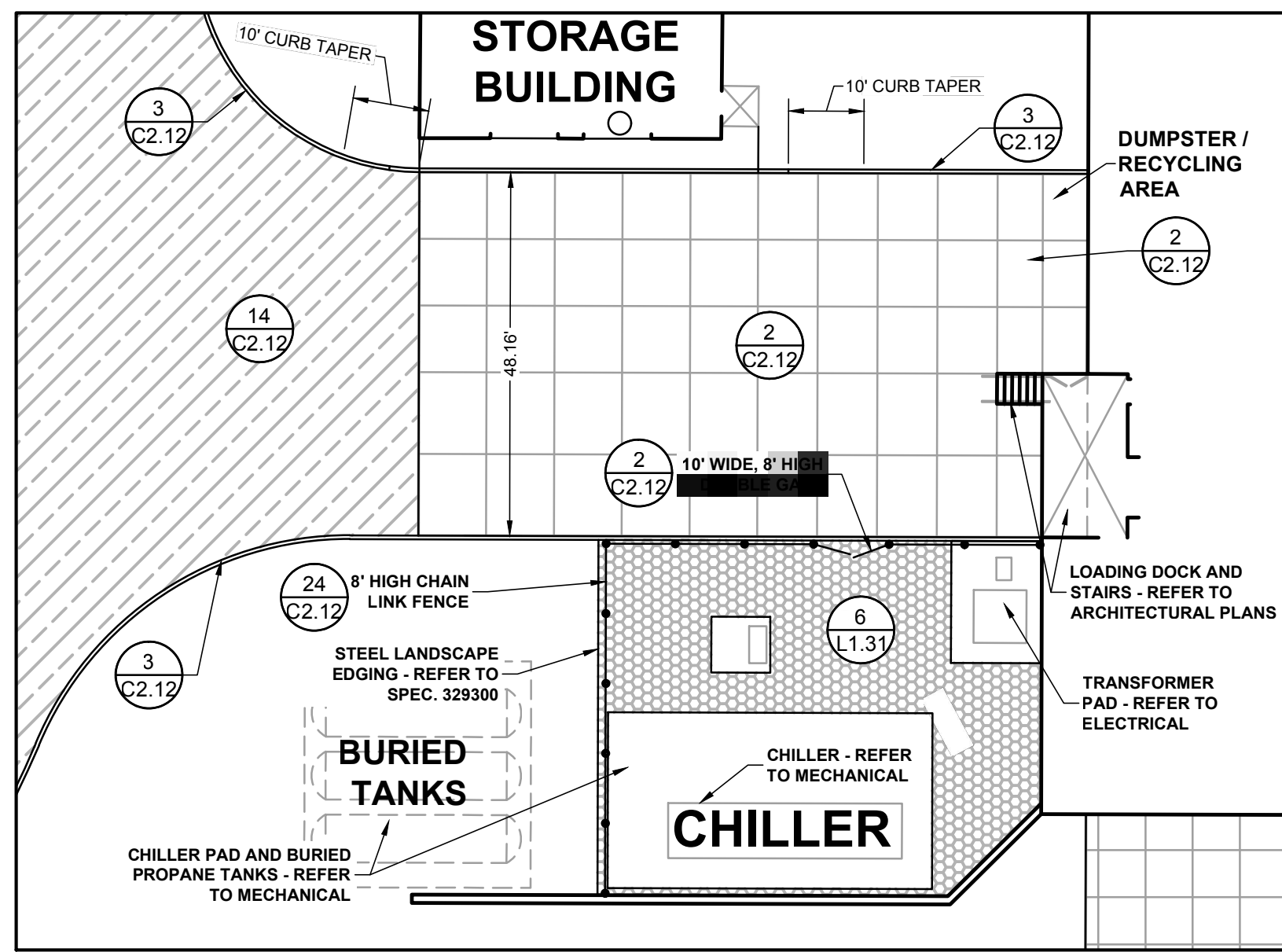
**TEMPORARY DRAINAGE BLOCKS**

FLUME SCHEDULE			
	CB 4	CB 10	C 18
A	904.8	904.8	904.5
B	904.7	904.7	904.4
C	903.4	904.5	904.2
D	903.2	904.3	904.0
E	903.6	904.7	904.4
R	903.7	904.8	904.5

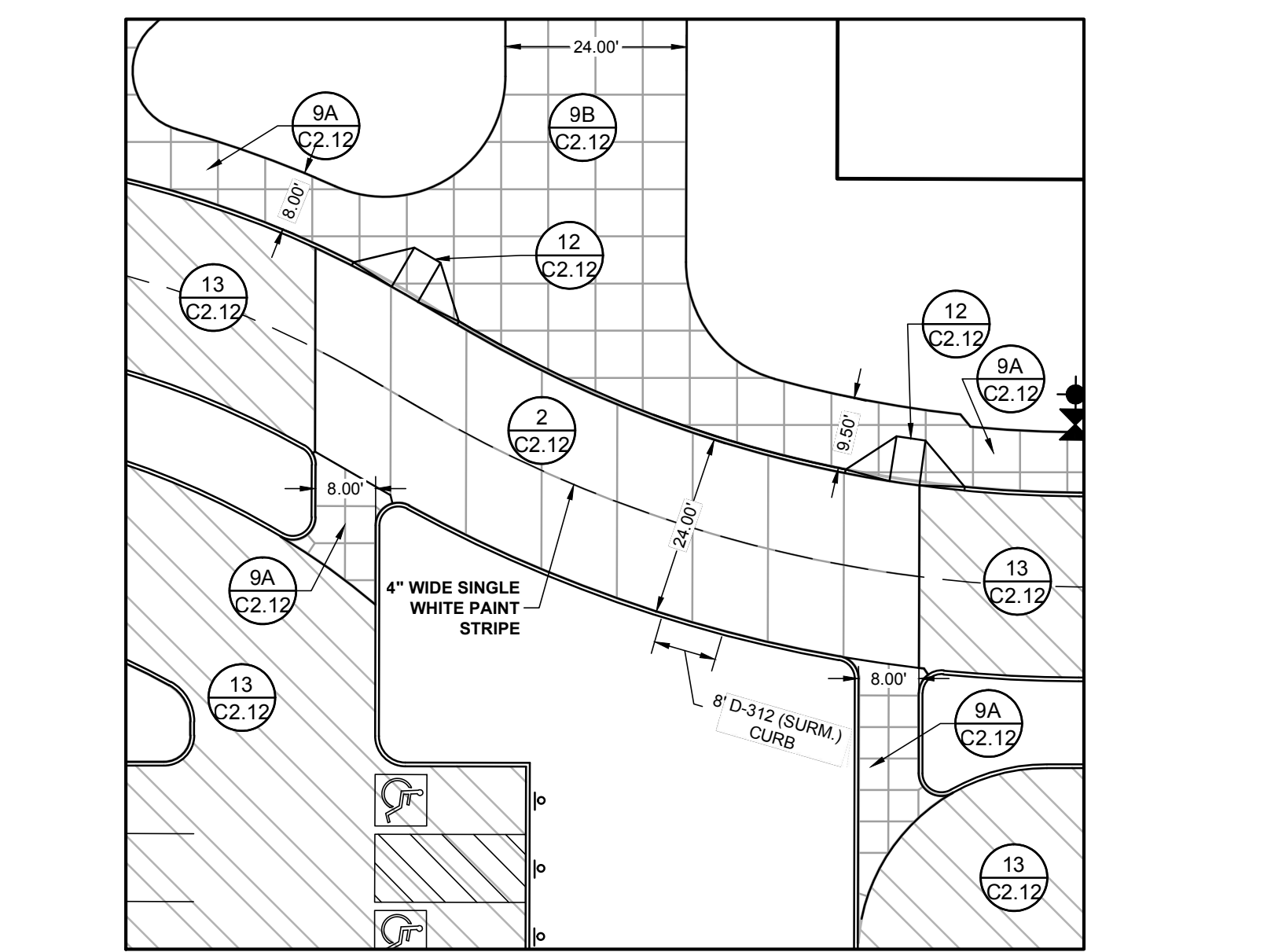
**4 FLAG POLE**  
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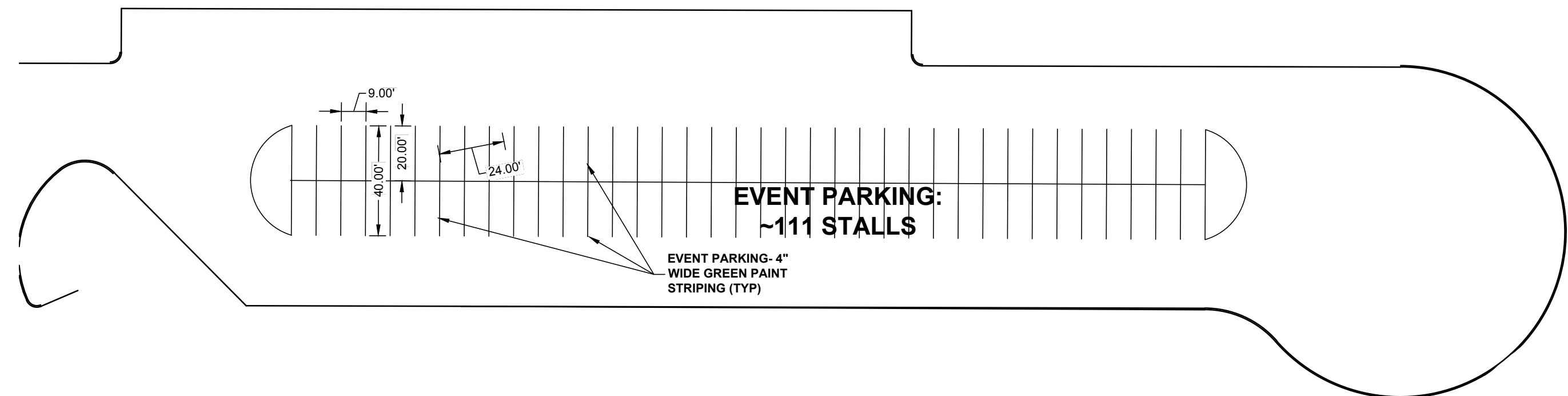
**5 STORAGE BUILDING**  
C2.13



**6 PARKING LOT DROP OFF AREA**  
C2.13



**7 BUS CORRAL - EVENT STRIPING**  
C2.13



**8 BUS CORRAL - EVENT STRIPING**  
C2.13

47x47 AREA - FOR CITY PURCHASES

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TYPED OR PRINTED NAME  
**02-27-2018**

DATE  
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**REVISIONS**

DRAWN BY

CLG

CHECKED BY

JRP

ISSUED FOR

**CONSTRUCTION DOCUMENTS**

ISSUE DATE

**02/27/2018**

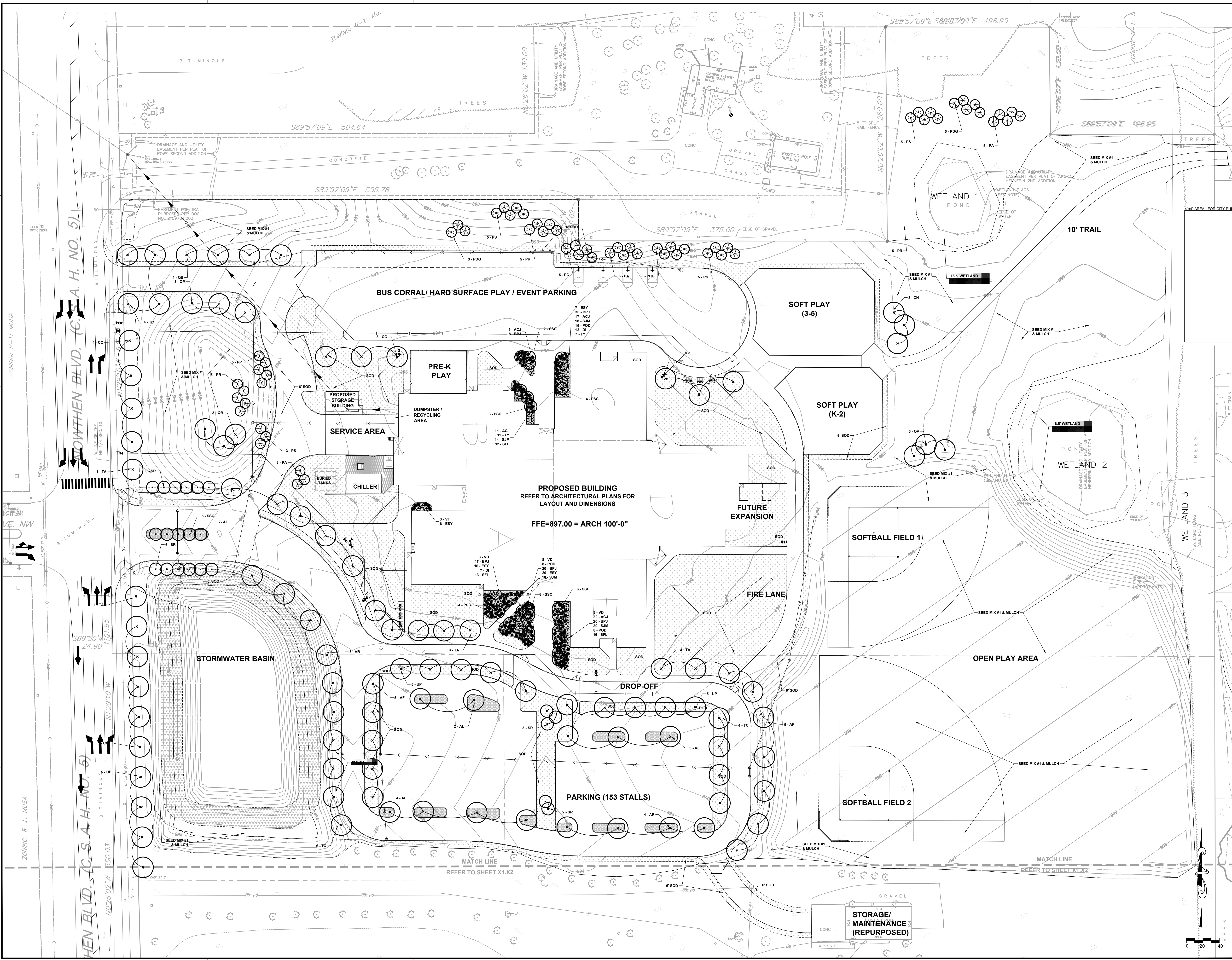
SHEET NAME

**SITE DETAILS**

ATS&R PROJECT NO.

17113

SHEET NUMBER



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2727 N Ferry Street, Anoka MN 55303

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.

SIGNATURE: *JAY R. POMEROY*  
TYPED OR PRINTED NAME: **JAY R. POMEROY**  
02-27-2018

DESIGN: **23543**  
LICENSE NUMBER

**REVISIONS**

NO.	DATE	DESCRIPTION

DRAWN BY: **CLG**

CHECKED BY: **JRP**

ISSUED FOR: **CONSTRUCTION DOCUMENTS**

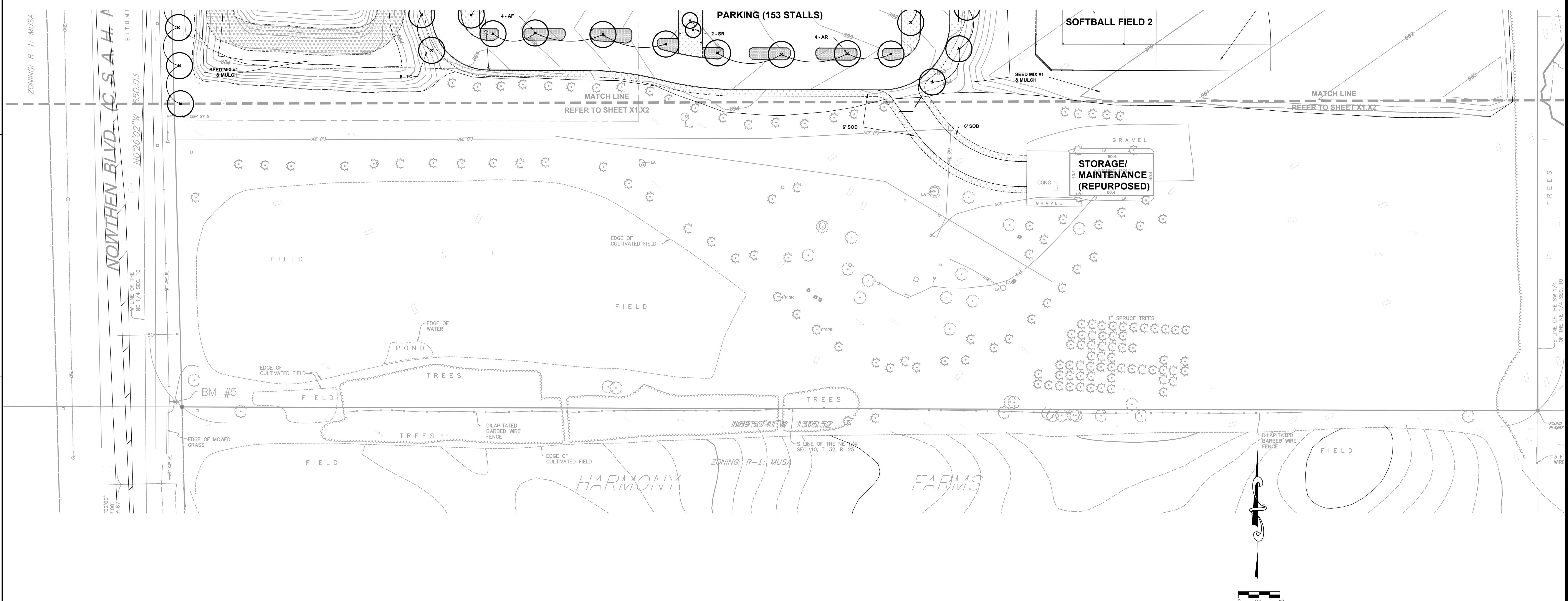
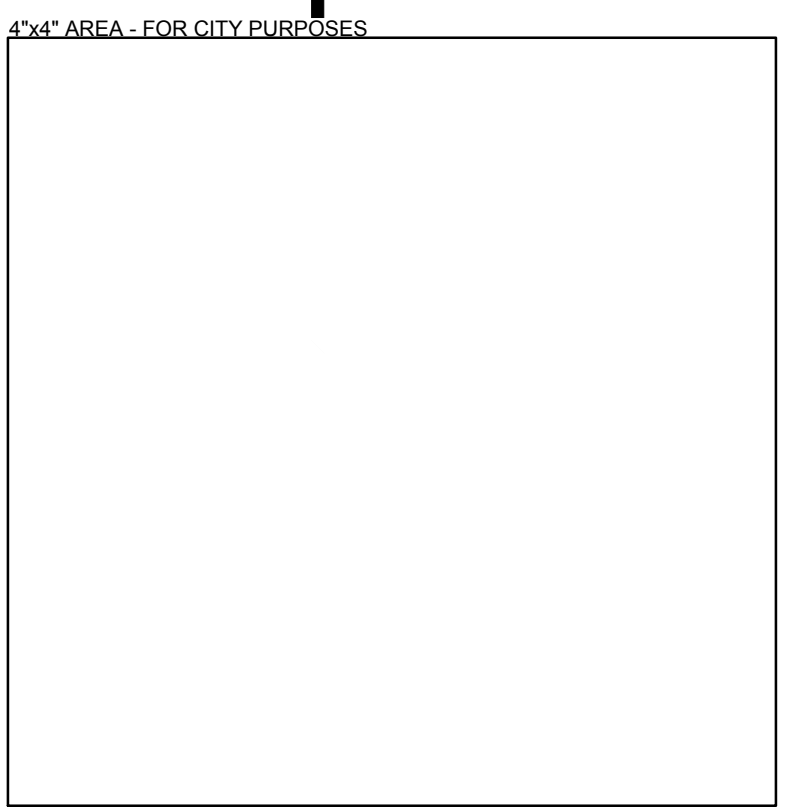
ISSUE DATE: **02/27/2018**

SHEET NAME: **LANDSCAPE PLAN (NORTH)**

ATS&R PROJECT NO.: **17119**

SHEET NUMBER: **L1.11**

SYMBOL/COMMON NAME	SCIENTIFIC NAME	QTY.	SIZE	ROOT
<b>DECIDUOUS SHADE TREES</b>				
DF	FALL TREES MAPLE	14	2-1/2" cal	B&B
AL	EMERALD LUSTRE MAPLE	15	2-1/2" cal	B&B
AR	OCTOBER GLORY MAPLE	9	2-1/2" cal	B&B
CN	NORTHERN CATALPA	3	2-1/2" cal	B&B
CO	COMMON HACKBERRY	12	2-1/2" cal	B&B
CK	KENTUCKY COFFEE TREE	3	2-1/2" cal	B&B
DV	IRONWOOD	3	2-1/2" cal	B&B
QB	SWAMP WHITE OAK	7	2-1/2" cal	B&B
QM	BLUR OAK	3	2-1/2" cal	B&B
LA	SENTRY LINDEN	11	2-1/2" cal	B&B
TC	GREENSPICE LINDEN	16	2-1/2" cal	B&B
UP	PATRIOT ELM	15	2-1/2" cal	B&B
<b>111</b>				
<b>CONIFEROUS TREES</b>				
PA	NORWAY SPRUCE	10	6"	B&B
PDA	BLACK HILLS SPRUCE	9	6"	B&B
PC	SWISS STONE PINE	5	6"	B&B
PP	PONGEROSA PINE	5	6"	B&B
PR	NORWAY PINE	10	6"	B&B
PS	WHITE PINE	9	6"	B&B
<b>48</b>				
<b>ORNAMENTAL TREES</b>				
PSC	PINK SPIRES CRAB	11	2" cal	B&B
SSC	SPRING SNOW CRAB	19	2" cal	B&B
SR	JAPANESE TREE LLAC CLUMP	17	2" cal	B&B
<b>47</b>				
<b>SHRUBS</b>				
PDD	LITTLE DEVIL NINEBARK	31	#2	Cont.
DA	ALPINE CURRANT	19	#5	Cont.
SJM	DAKOTA GOLDCHARM SPIREA	62	#2	Cont.
SFL	FIRE LIGHT SPIREA	41	#2	Cont.
ACJ	ANAKOBA COMPACT JUNIPER	45	#2	Cont.
BPJ	BLUE PRINCE JUNIPER	90	#2	Cont.
ESY	EMERALD SPREADER YEW	45	#2	Cont.
TY	TALANTON YEW	19	#3	Cont.
VT	COMPACT AMER CRANBERRYBUSH	12	#5	Cont.
VD	BLUE MUFFIN VIBURNUM	11	#5	Cont.
<b>373</b>				



**NEW RAMSEY ELEMENTARY SCHOOL**  
15961 NOWTHEN BLVD NW, RAMSEY, MINNESOTA  
**Anoka Hennepin Schools**  
Anoka-Hennepin School District 11  
2727 N Ferry Street, Anoka MN 55303

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JAY R. POMEROY

TYPED OR PRINTED NAME

02-27-2018

DATE

23543

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DRAWN BY

CLG

CHECKED BY

JRP

ISSUED FOR

CONSTRUCTION DOCUMENTS

ISSUE DATE

02/27/2018

SHEET NAME

LANDSCAPE PLAN (SOUTH)

ATS&R PROJECT NO.

17113

SHEET NUMBER

0

20

40

SCALE

0 20 40

SCALE

0 20 40

SCALE

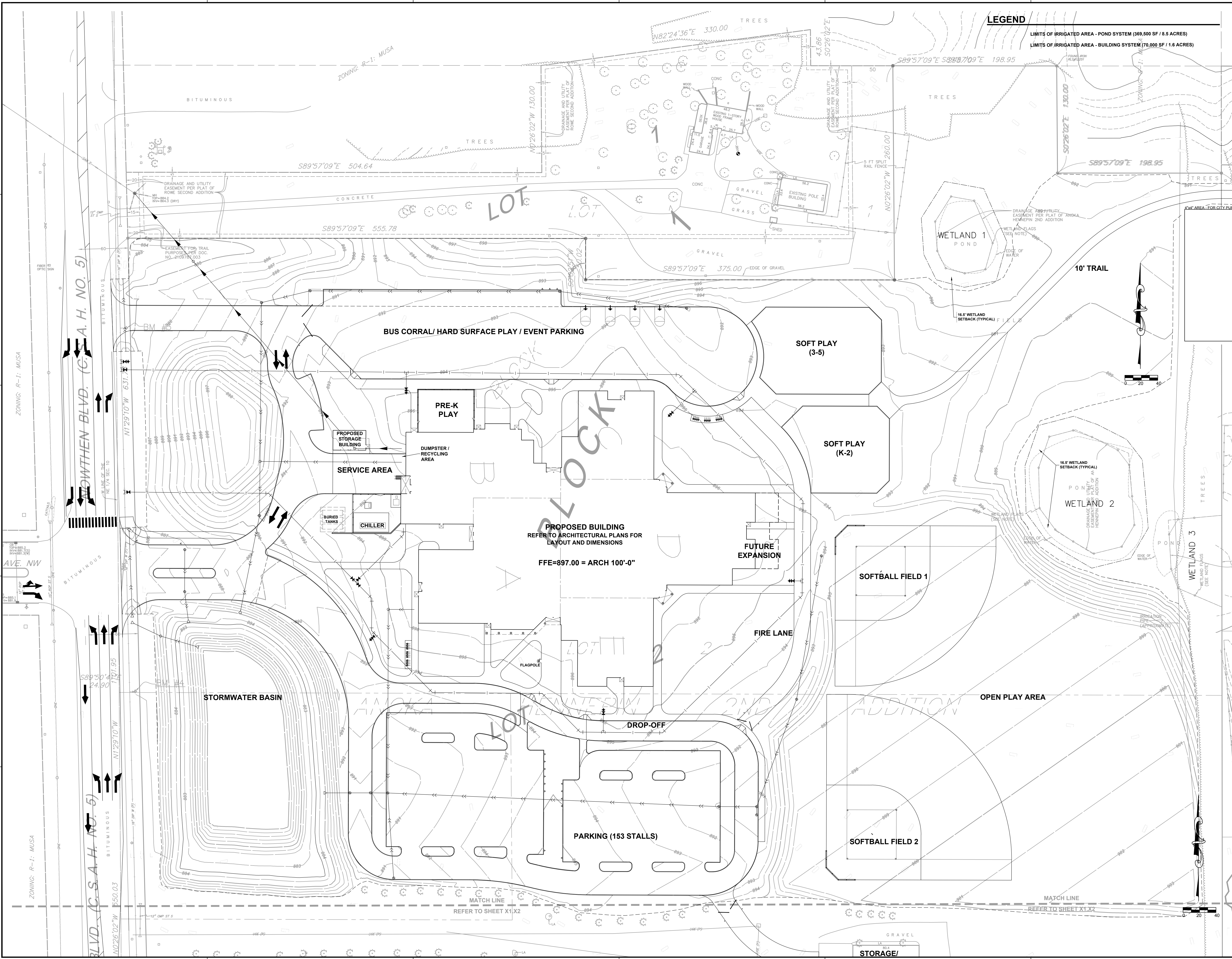
0 20 40

SCALE

0 20 40

**LEGEND**

LIMITS OF IRRIGATED AREA - POND SYSTEM (369,500 SF / 8.5 ACRES)  
LIMITS OF IRRIGATED AREA - BUILDING SYSTEM (70,000 SF / 1.6 ACRES)



**NEW RAMSEY ELEMENTARY SCHOOL**  
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**REVISIONS**

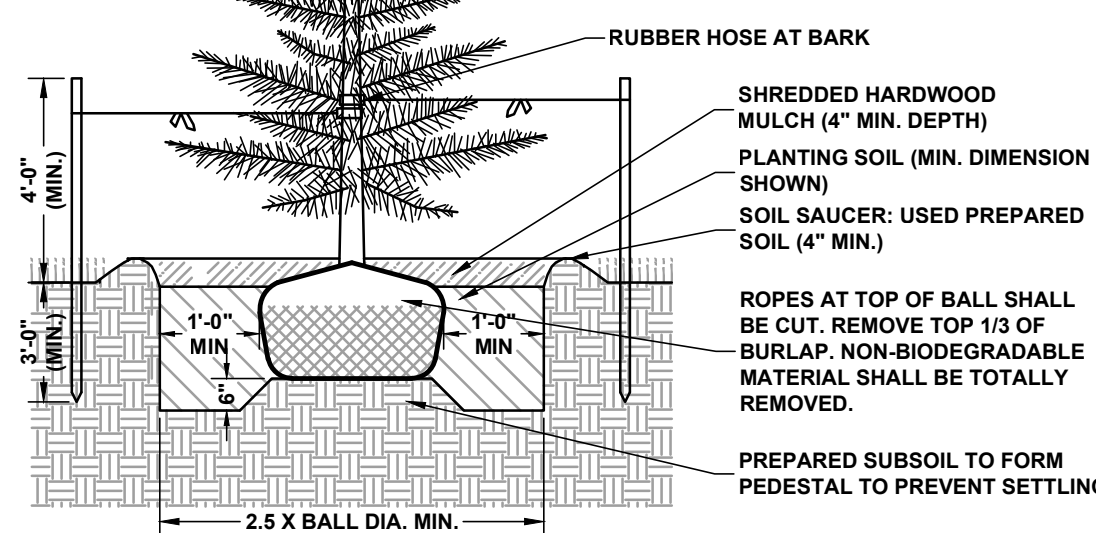
NO.	DATE	DESCRIPTION

DRAWN BY: CLG  
CHECKED BY: JRP  
ISSUED FOR: AGENCY REVIEW  
ISSUE DATE: 12/08/2017  
SHEET NAME: IRRIGATION PLAN

ATS&R PROJECT NO.: 17119  
SHEET NUMBER

**GENERAL NOTES:**

- TREES SHALL BE ALIGNED AND PLUMB AFTER WATERING AND SETTLING.
- PRUNE TREES AS REQUIRED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT/ENGINEER.
- CONTRACTOR SHALL INSTALL THREE STEEL POSTS WITH THREE HORIZONTALLY OPPOSED REINFORCED RUBBER HOSE SECTIONS WITH A DOUBLE STRAND OF #11 WIRE AND FLAGGING. WRAP THE WIRE A MINIMUM OF TWO TIMES AROUND EACH POST.
- MULCH SHALL NOT BE IN DIRECT CONTACT WITH TREE TRUNK.
- ONLY PRUNE OUT DEAD, BROKEN, OR MISSHAPEN BRANCHES AT TIME OF PLANTING.
- PLANTING DEPTH SHALL BE SUCH THAT THE FIRST SET OF PRIMARY ROOTS ARE AT FINISHED GRADE.

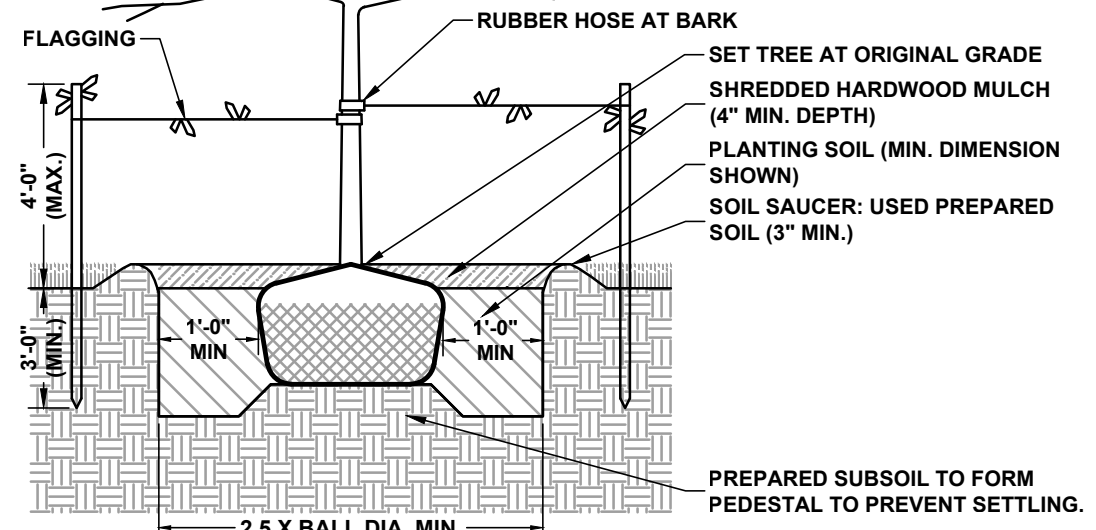


**1 CONIFEROUS TREE**

L1.31

**GENERAL NOTES:**

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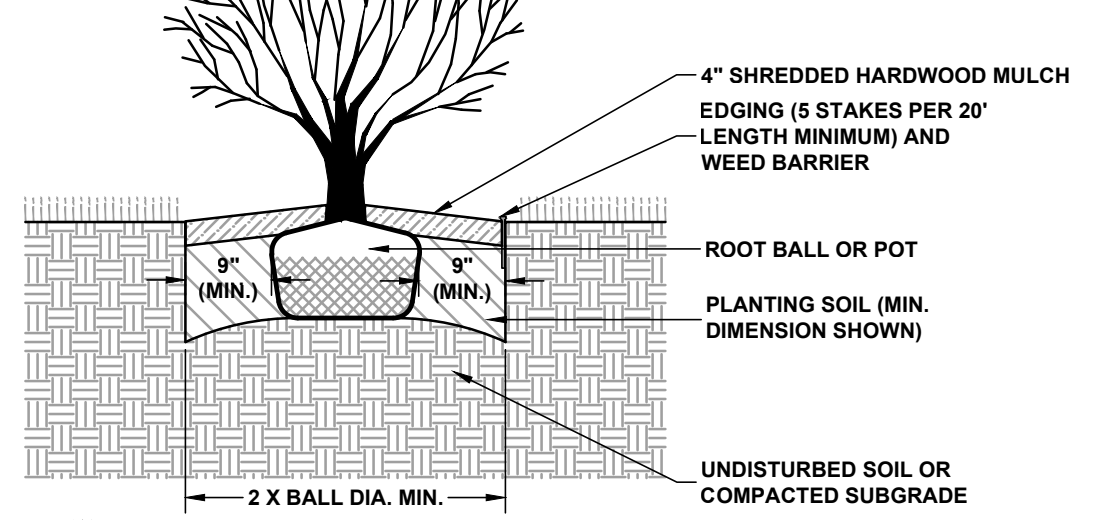


**2 DECIDUOUS TREE**

L1.31

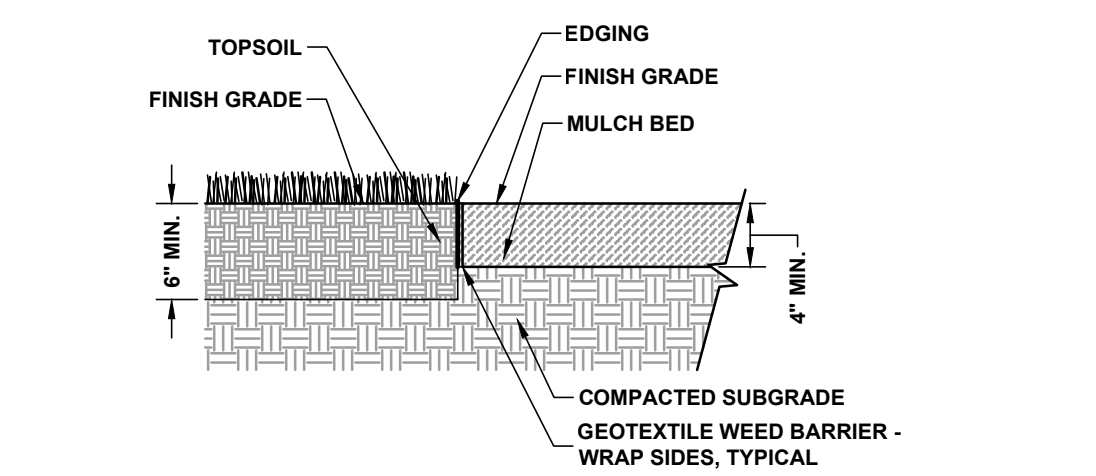
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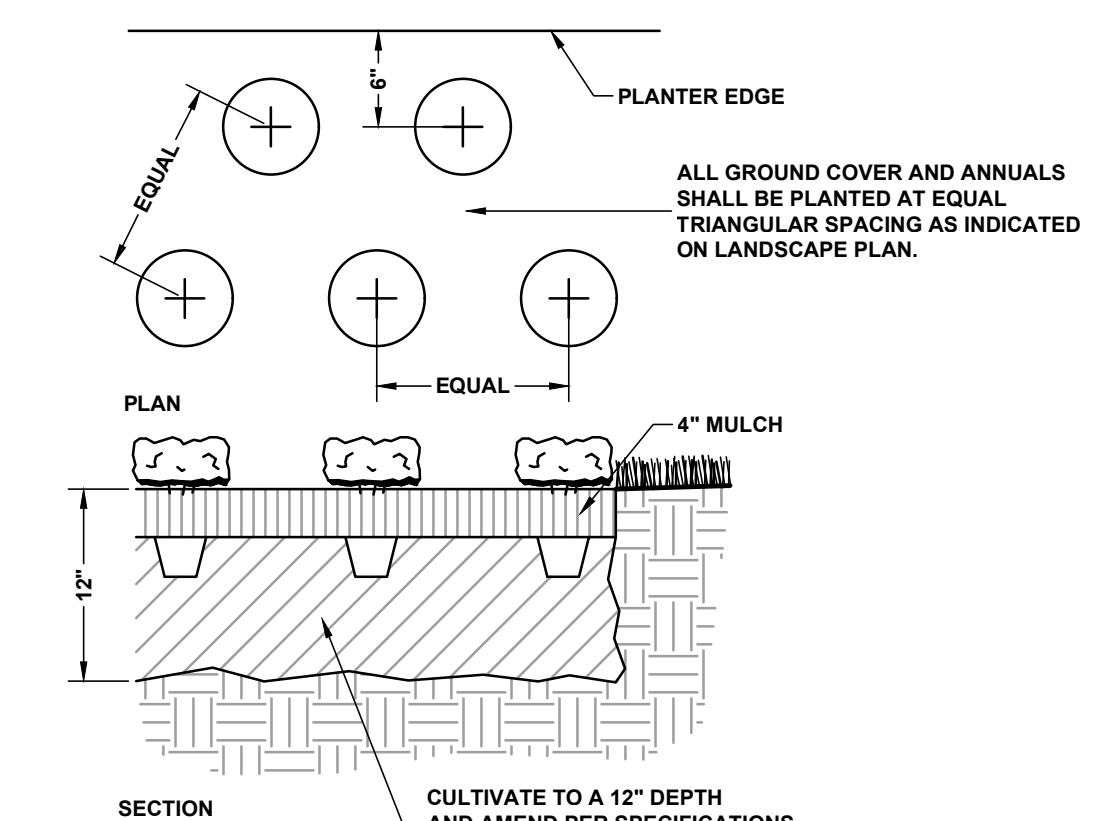
**3 SHRUB**

L1.31



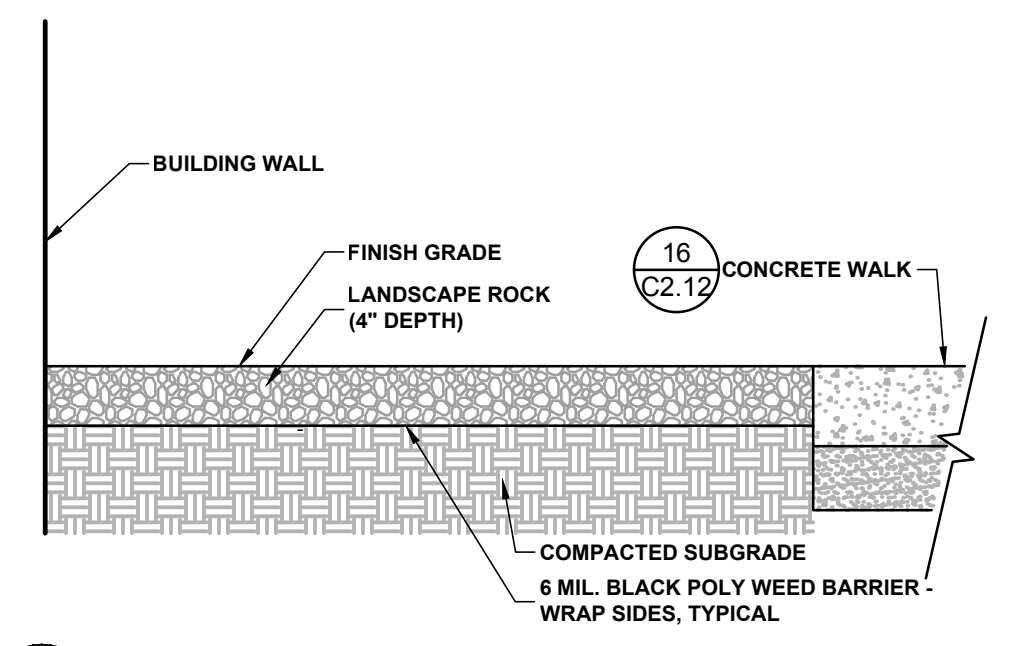
**4 SHRUB BED EDGING**

L1.31



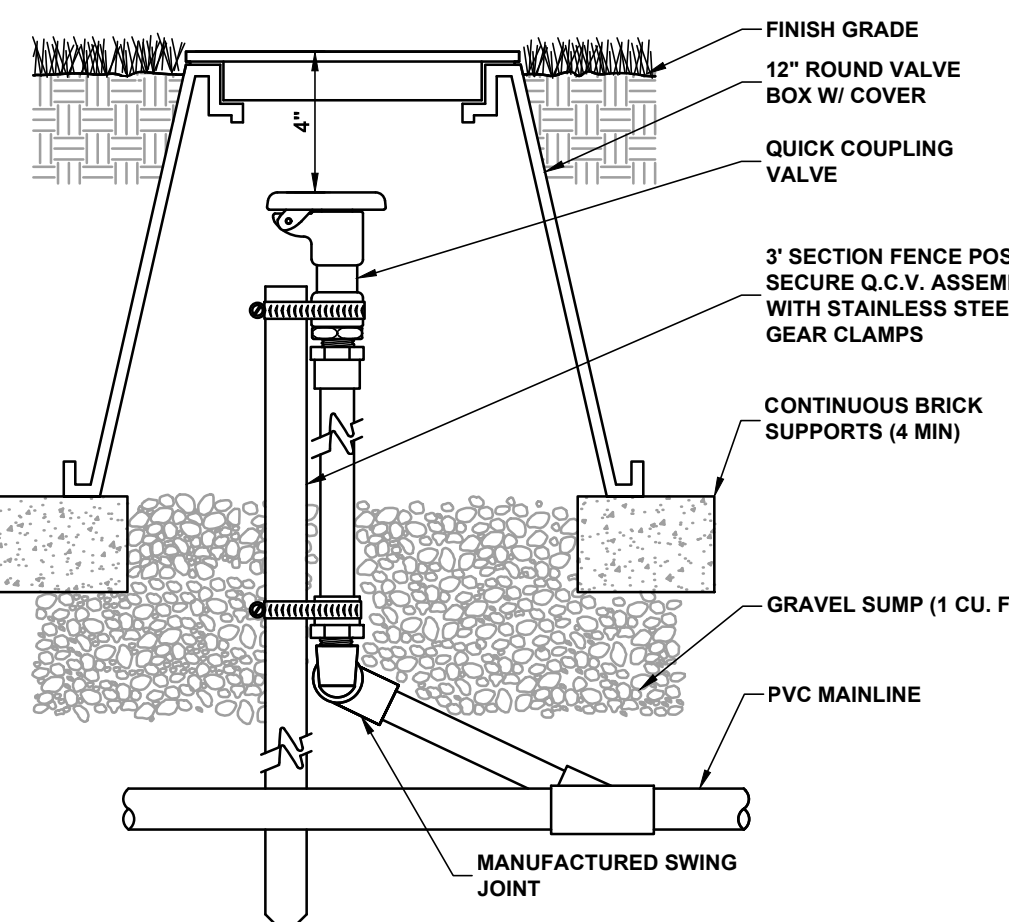
**5 GROUND COVER AND PERENNIALS**

L1.31



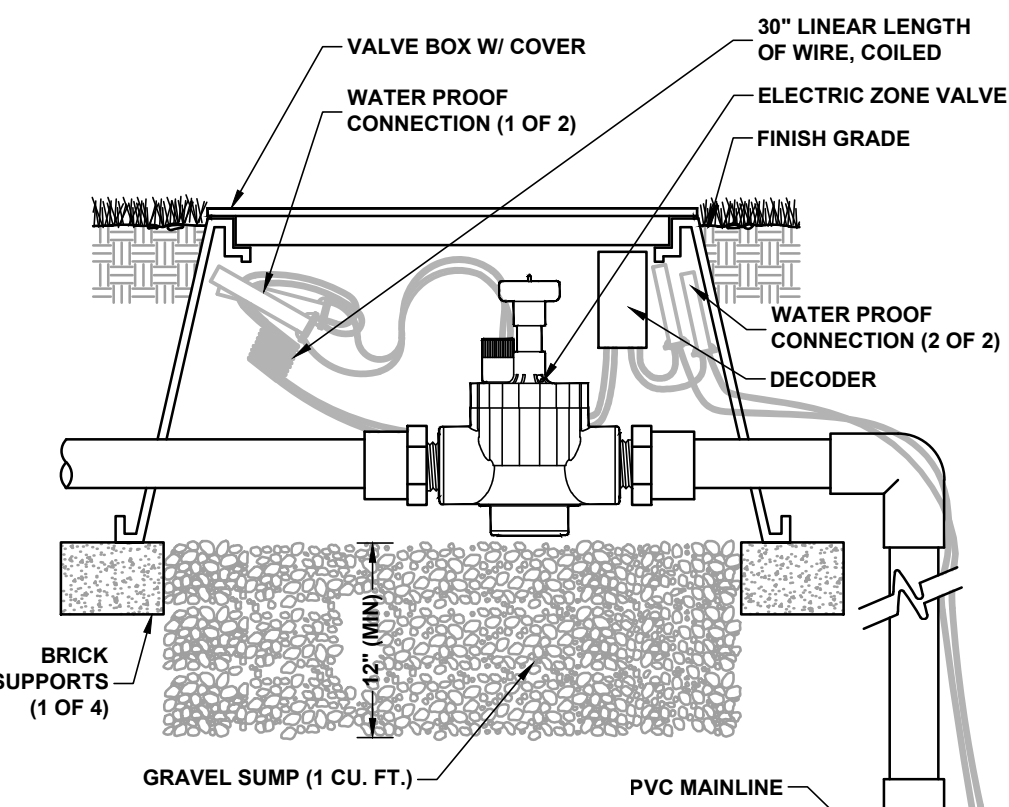
**6 LANDSCAPE ROCK BED**

L1.31



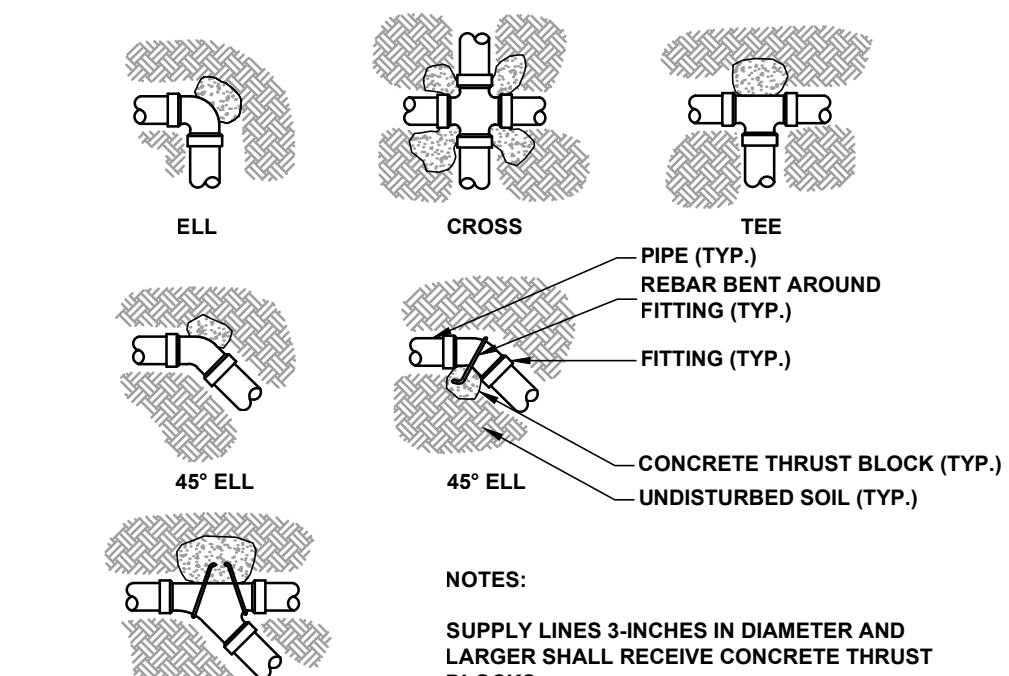
**7 QUICK COUPLER**

L1.31



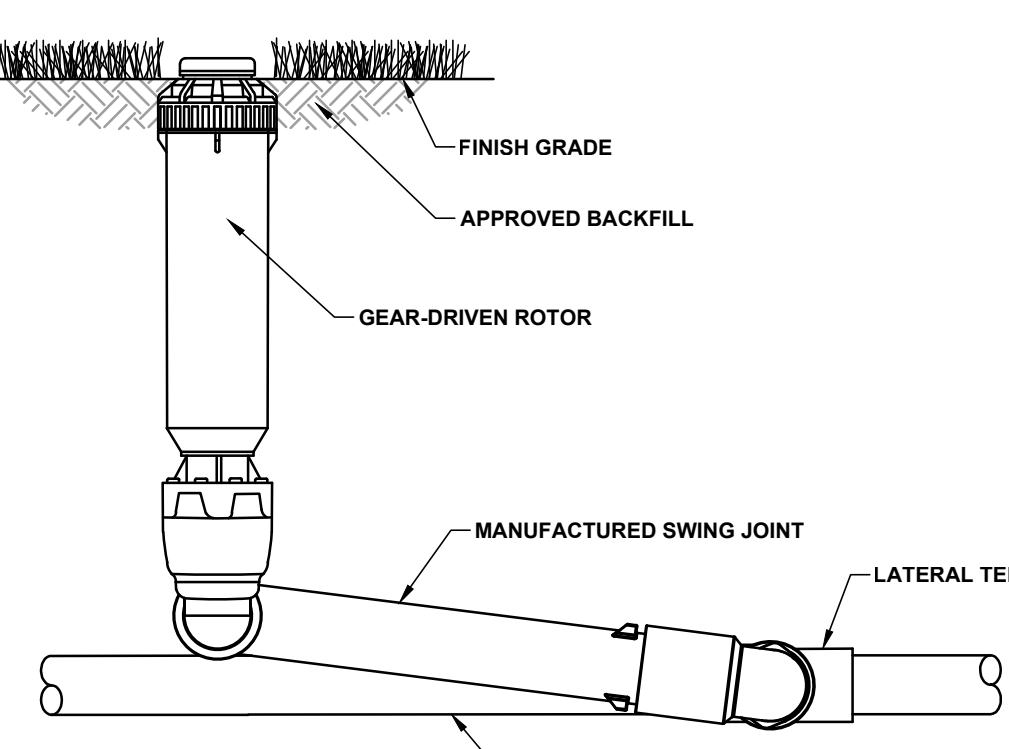
**8 DECODER / VALVE BOX AND SUMP**

L1.31



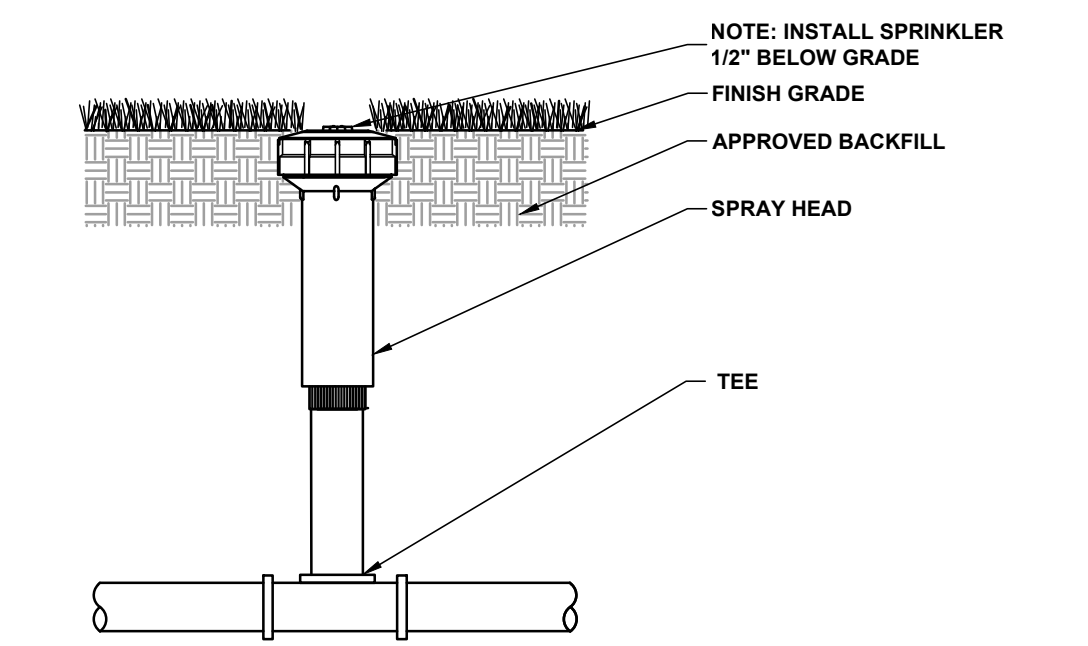
**9 THRUST BLOCK (IRRIGATION LINES ONLY)**

L1.31



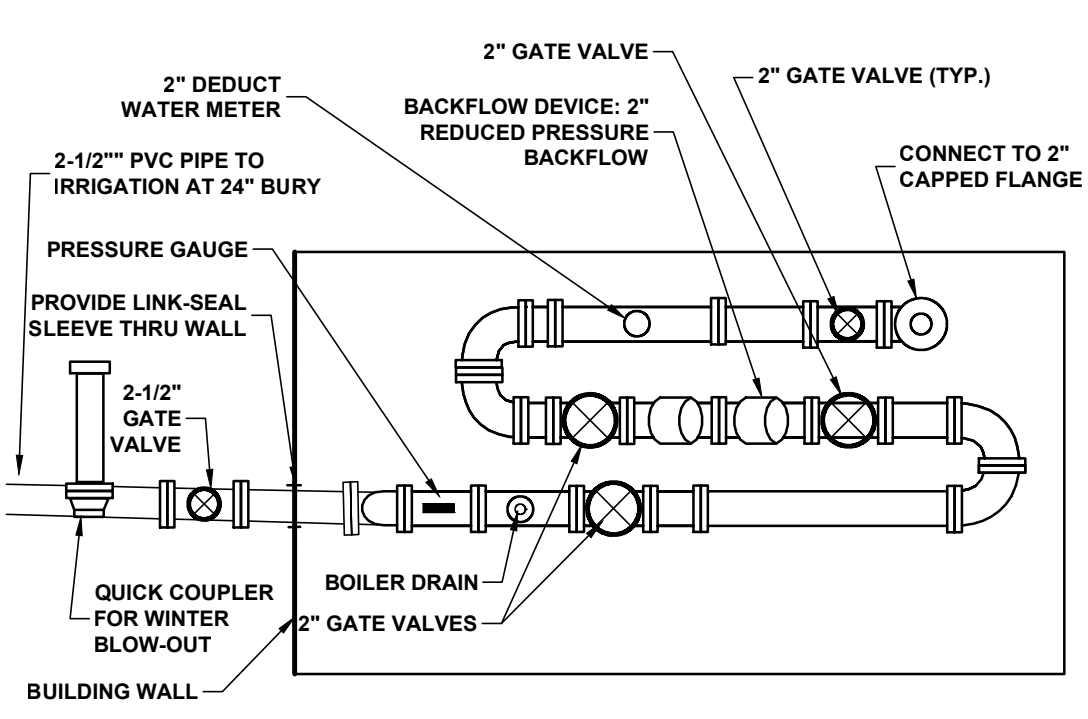
**10 GEAR DRIVE SPRINKLER**

L1.31



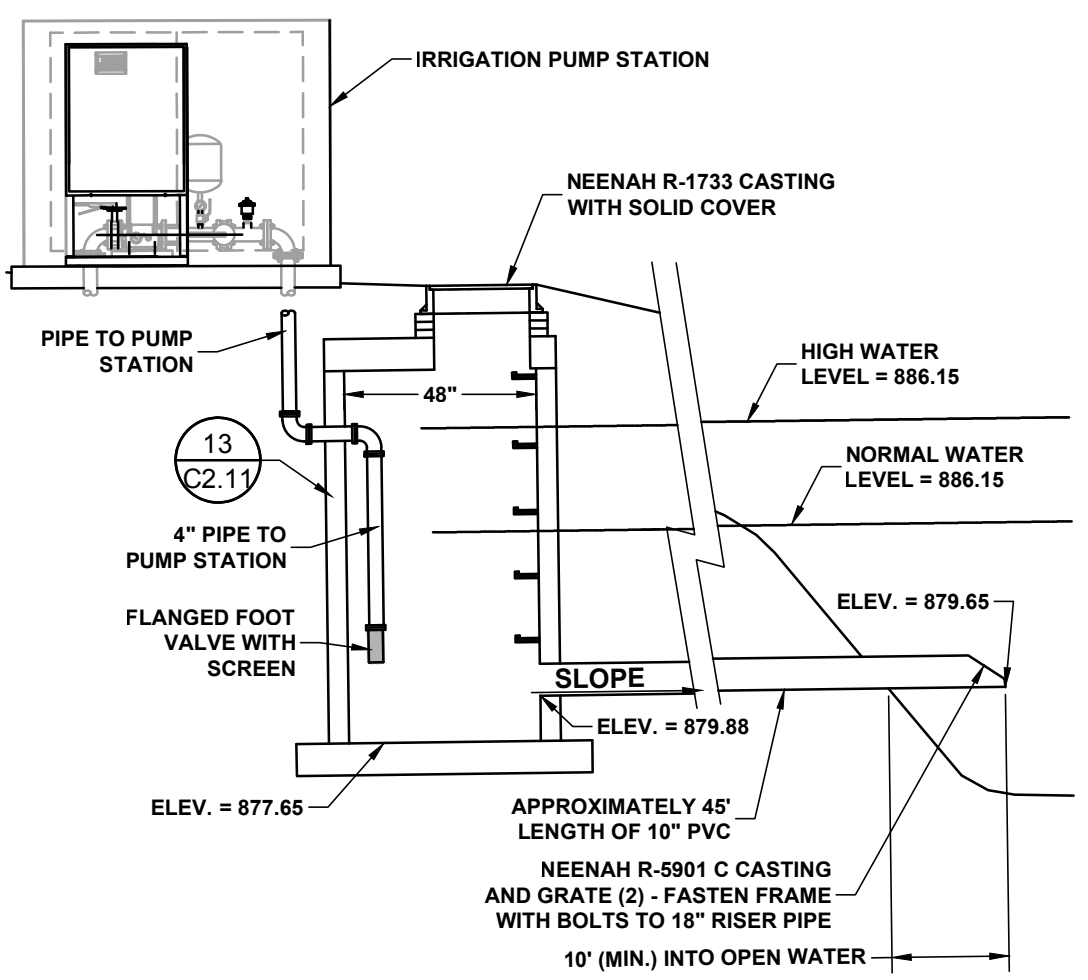
**11 SPRAY HEAD SPRINKLER**

L1.31



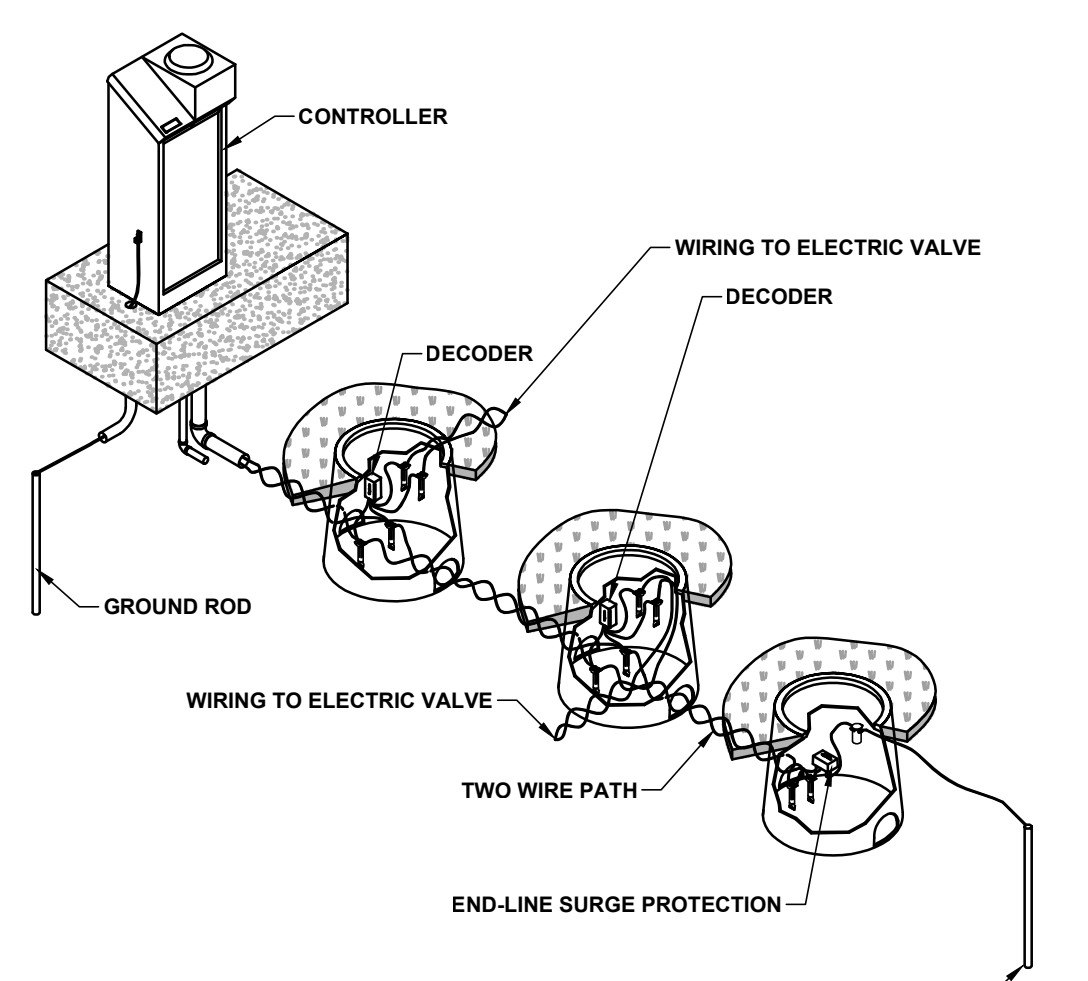
**12 IRRIGATION SERVICE CONNECTION TO BUILDING**

L1.31



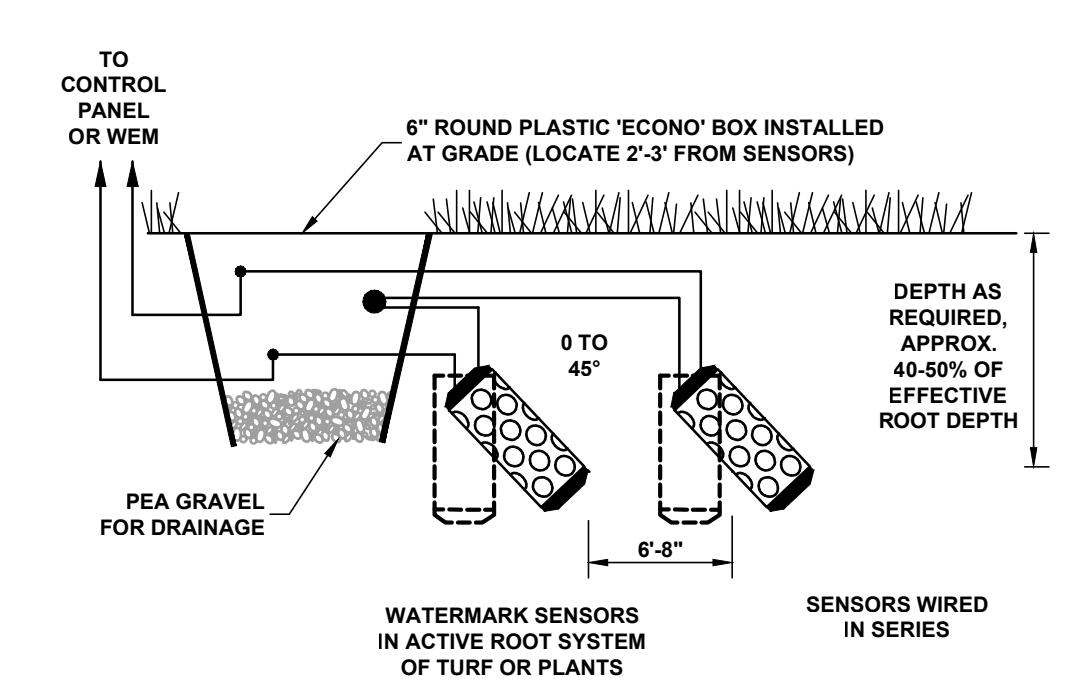
**13 IRRIGATION WELL WELL (MANHOLE)/ INTAKE ASSEMBLY**

L1.31



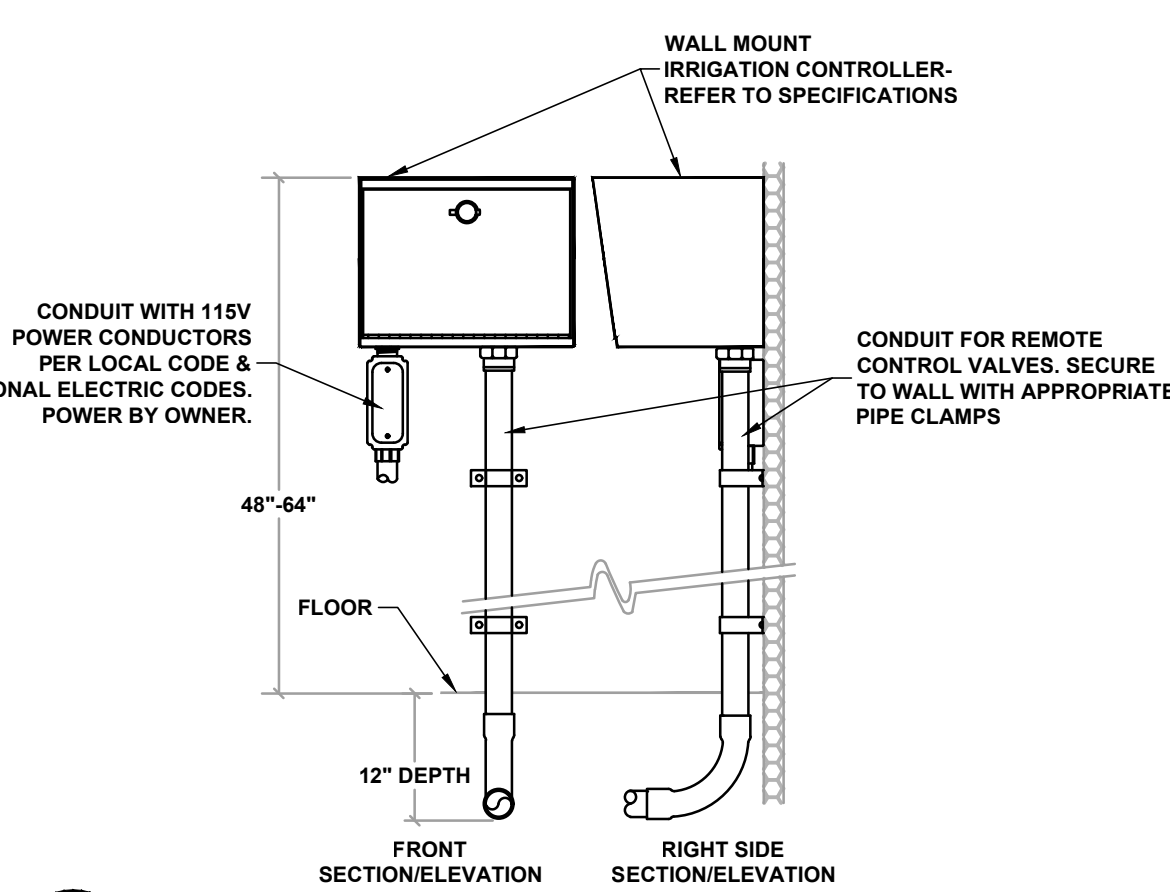
**14 IRRIGATION WIRING DIAGRAM**

L1.31



**15 MOISTURE SENSOR**

L1.31



**19 WALL-MOUNT CONTROLLER**

L1.31

4"x4" AREA - FOR CITY PURCHASES

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DATE: 02-27-2018

LICENSE NUMBER: 25543

REVISIONS

DRAWN BY: CLG

CHECKED BY: JRP

ISSUED FOR: CONSTRUCTION DOCUMENTS

ISSUE DATE: 02/27/2018

SHEET NAME: SITE DETAILS

ATS&R PROJECT NO: 17119

SHEET NUMBER: L1.31