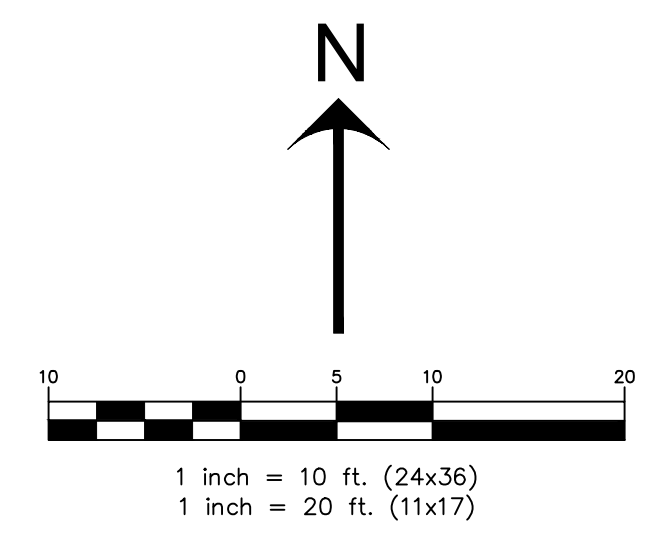


**GENERAL NOTES**

1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: SALT LAKE CITY, SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES (SLCDPU), PRODUCT MANUFACTURER, OR AMERICAN PUBLIC WORKS ASSOCIATION (APWA). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY.
2. TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT UDOT TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
3. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION.
4. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES.
5. ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS.

**KEYED NOTES**

- 1 FIRE HYDRANT TO BE REMOVED AND/OR RELOCATED. CONTRACTOR TO VERIFY WITH SLCDPU ON CONDITION OF HYDRANT FOR POSSIBLE REUSE.
- 2 SAWCUT, REMOVE AND PROPERLY DISPOSE OF EXISTING ASPHALT FOR UTILITY REMOVAL OR INSTALLATION.
- 3 REMOVE AND PROPERLY DISPOSE OF EXISTING CURB/GUTTER. REPLACE AS SHOWN ON SUBSEQUENT SHEETS.
- 4 REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE RETAINING WALL TO BE REPLACED.
- 5 REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE FLATWORK.
- 6 DEMOLISH AND DISPOSE OF EXISTING BUILDING.
- 7 CONTRACTOR TO COORDINATE WITH DOMINION ENERGY TO CUT AND CAP EXISTING GAS SERVICE.
- 8 CONTRACTOR TO COORDINATE WITH ROCKY MOUNTAIN POWER FOR REMOVAL OF UTILITY PPOLES AND OVERHEAD LINES AND COORDINATE NEW SERVICES.
- 9 REMOVE EXISTING WATER METER AND END SERVICE AT MAIN PER SLCDPU STANDARD PRACTICE.
- 10 REMOVE EXISTING SEWER LATERAL AND END SERVICE AT MAIN PER SLCDPU STANDARD PRACTICE.
- 11 PROTECT EXISTING CURB IN PLACE.
- 12 PROTECT EXISTING SIDEWALK IN PLACE.



#	DATE	REVISIONS:

**THE MEWS TOWNHOMES**  
**720 SOUTH 300 EAST, SALT LAKE CITY**  
**DEMOLITION PLAN**

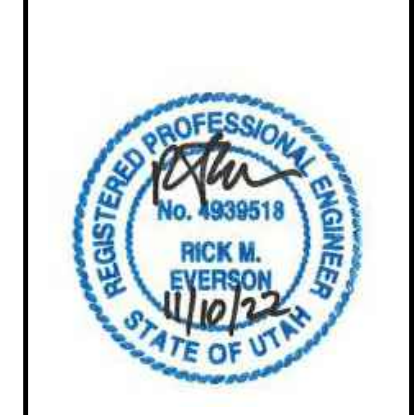
DATE SUBMITTED: 11/10/2022  
 PREPARED FOR: BOGART MCAVOY

**OWNER**  
 DIGS UTAH LLC  
 BOGART MCAVOY  
 PO BOX 526103  
 SALT LAKE CITY, UT 84152  
 (801) 865-4510

**ARCHITECT**  
 PROCESS STUDIO  
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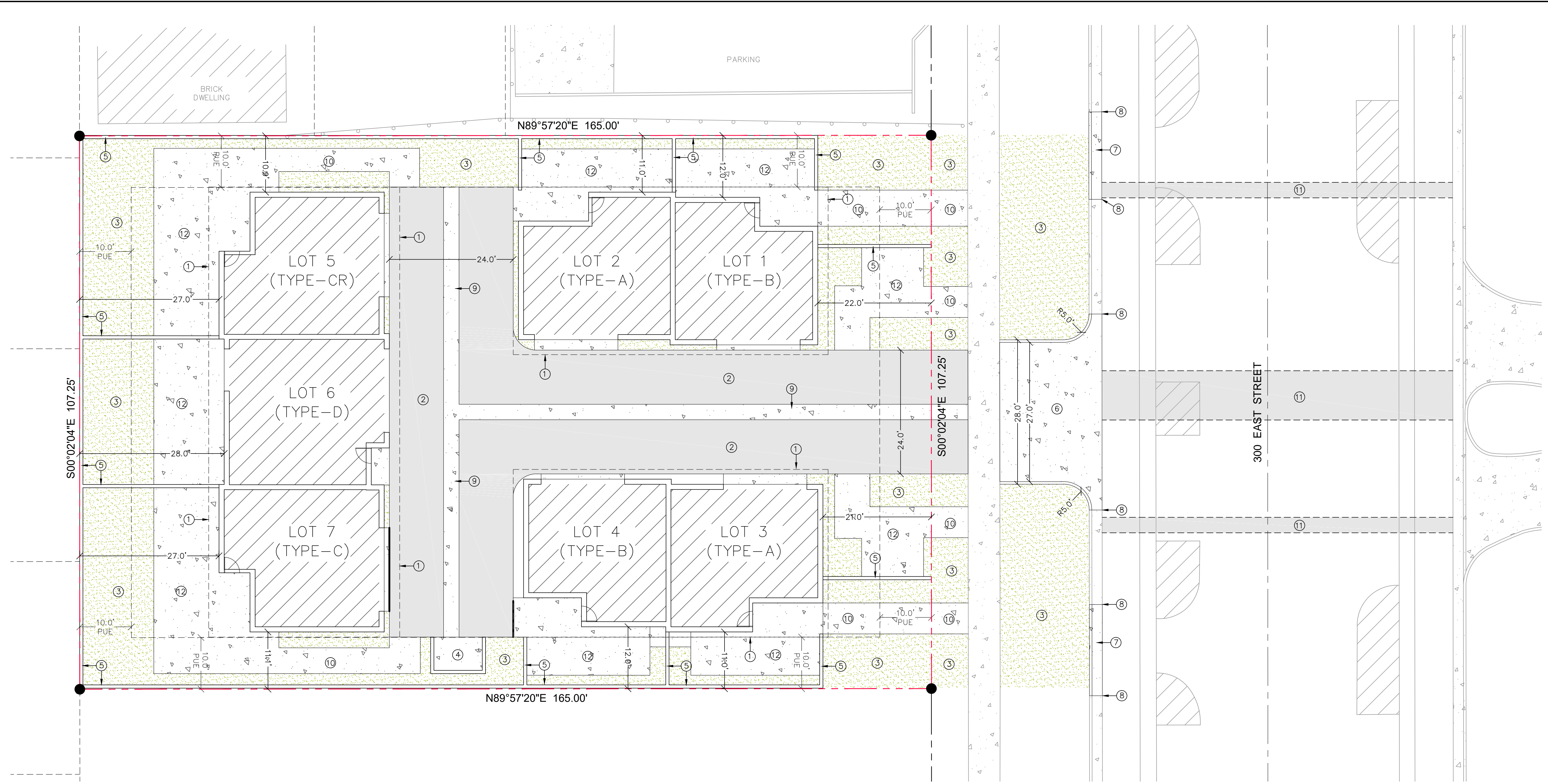
**CIVIL ENGINEER**  
 RICK EVERSON  
 2851 JENNIE LANE  
 HOLLADAY, UT 84117  
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**SURVEYOR**  
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**C001**



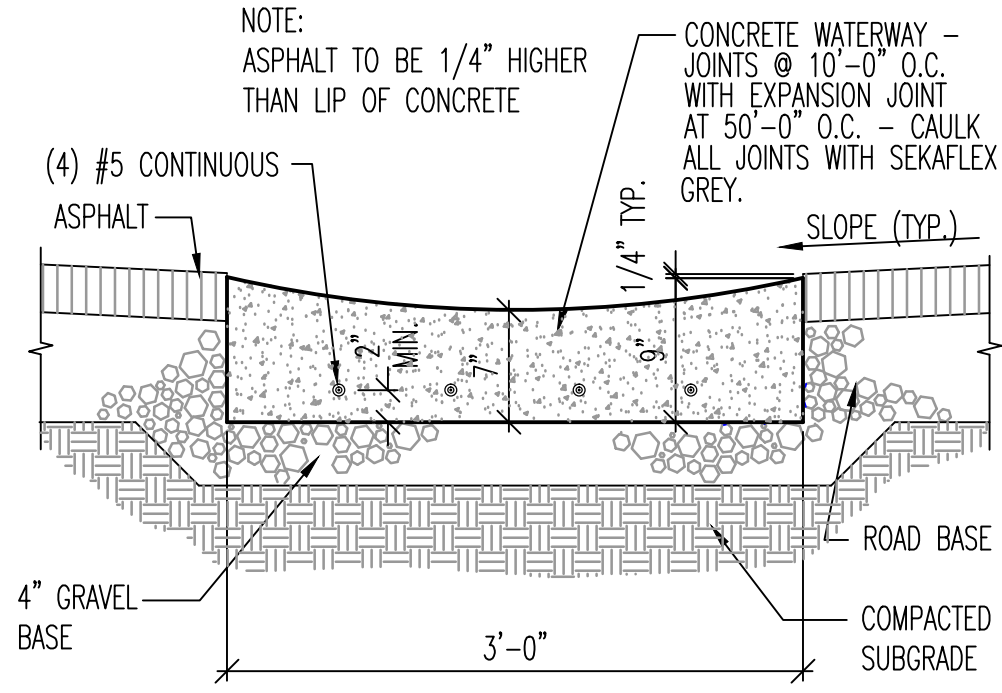


**GENERAL NOTES**

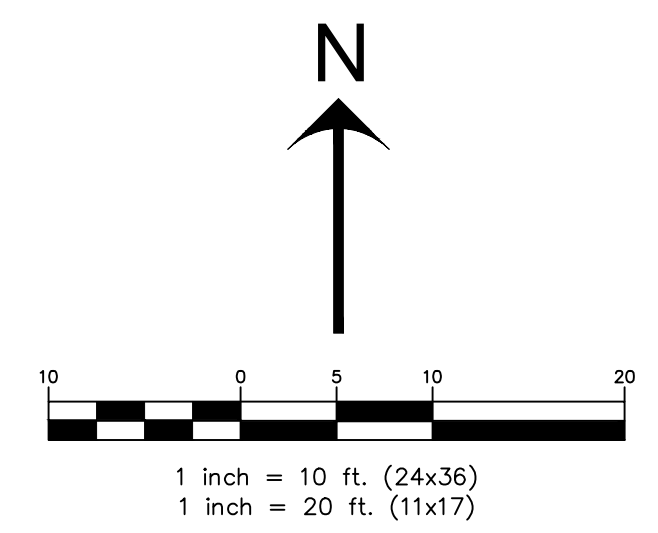
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8. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.

**KEYED NOTES**

- ① APPROXIMATE OUTLINE OF ROOF OVERHANG
- ② INSTALL ASPHALT PAVEMENT PER ASPHALT PAVEMENT DESIGN IN GEOTECHNICAL REPORT
- ③ LANDSCAPE AREA, SEE ARCHITECTURAL PLANS
- ④ INSTALL CONCRETE DUMPSTER PAD PER CONCRETE PAVEMENT DESIGN IN GEOTECHNICAL REPORT. ENCLOSURE PER ARCHITECTURAL PLANS.
- ⑤ INSTALL CONCRETE RETAINING WALL. SEE GRADING SHEETS FOR ELEVATIONS AND ARCHITECTURAL PLANS FOR DETAILS.
- ⑥ INSTALL OPEN DRIVEWAY APPROACH PER APWA PLAN #225
- ⑦ INSTALL TYPE A CURB AND GUTTER PER APWA PLAN #205
- ⑧ CONNECT EXISTING CURB AND GUTTER TO NEW CURB AND GUTTER PER APWA PLAN #206
- ⑨ INSTALL 3' WATERWAY PER DETAIL "A", THIS SHEET
- ⑩ INSTALL SIDEWALK PER APWA PLAN #231
- ⑪ INSTALL ASPHALT CONCRETE T-PATCH PER APWA PLAN #255. SEE DEMOLITION PLAN AND UTILITY PLAN FOR MORE INFORMATION.
- ⑫ INSTALL CONCRETE PAVEMENT PER DESIGN IN GEOTECHNICAL REPORT



**DETAIL "A" (3' CONCRETE WATERWAY)**



#	DATE	REVISIONS

**THE MEWS TOWNHOMES**  
**720 SOUTH 300 EAST, SALT LAKE CITY**  
**CIVIL SITE PLAN**

DATE SUBMITTED: 11/10/2022  
 PREPARED FOR: BOGART MCAVOY

**OWNER**  
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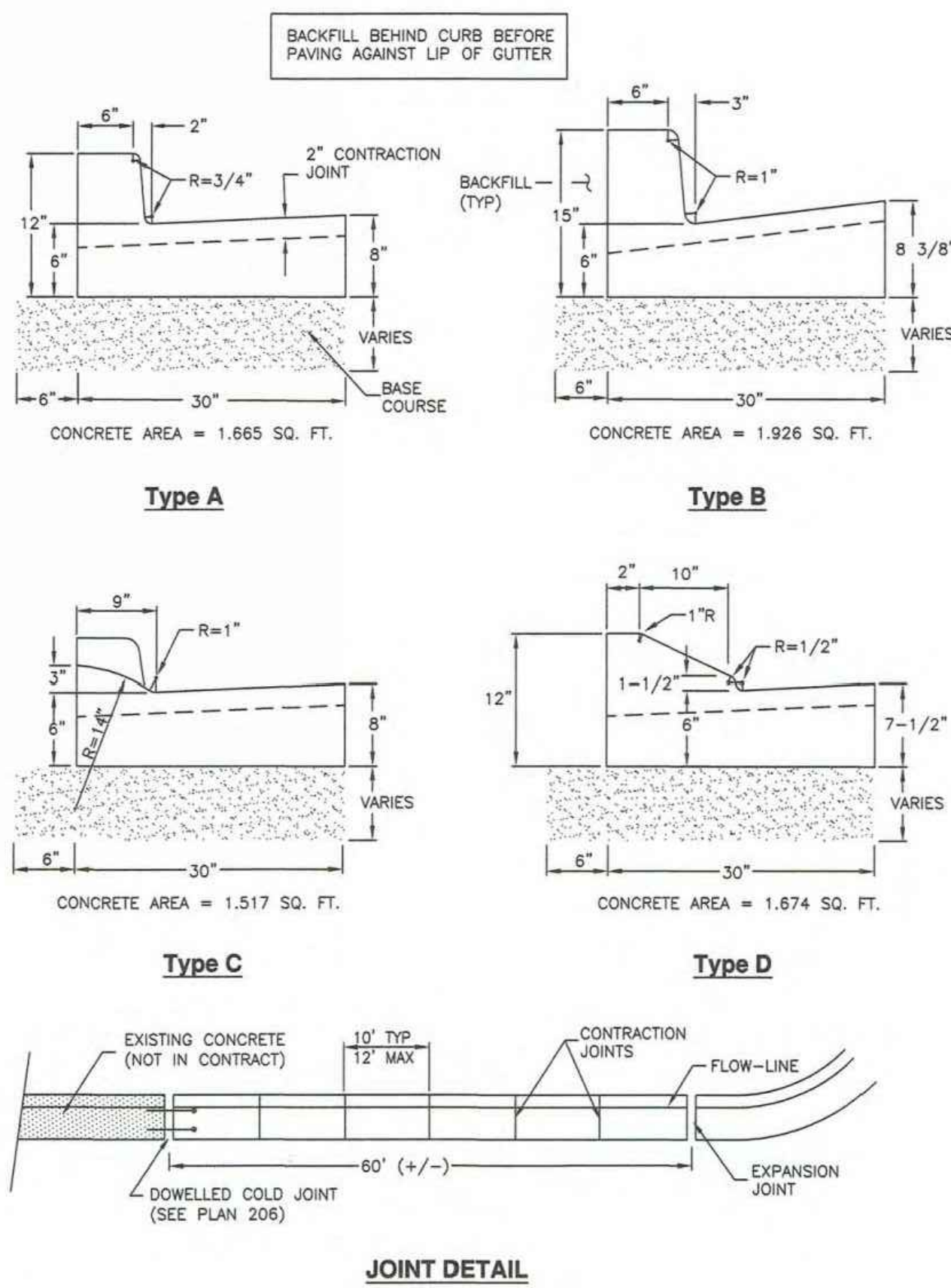
**C101**



**Curb and gutter**

1. **GENERAL**
  - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
  - B. Additional requirements are specified in APWA Section 32 16 13.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
  - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
  - D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. **EXECUTION**
  - A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
  - B. Concrete Placement: APWA Section 03 30 10.
    - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Install at the start or end of a street intersection curb return. Expansion joints are not required in concrete placement using slip-form construction.
    - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
    - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.

205.1



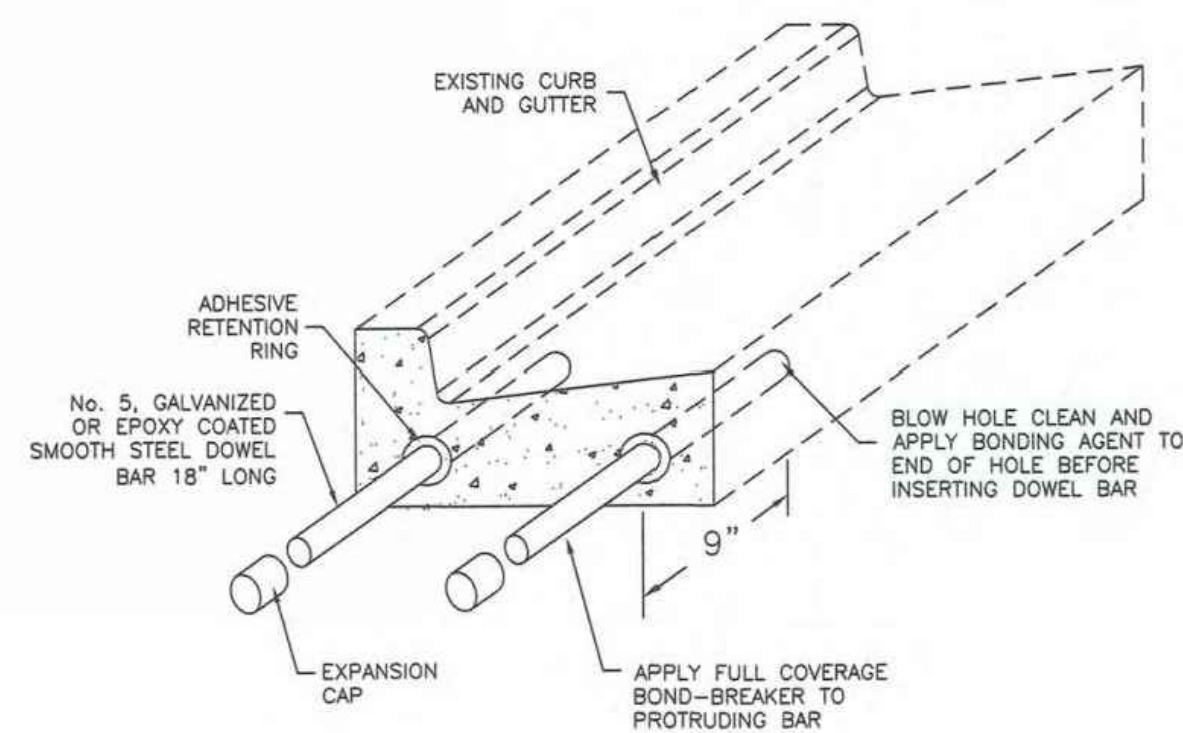
Curb and gutter

Plan 205.1  
December 2008

**Curb and gutter connection**

1. **GENERAL**
  - A. Connect new curb and gutter to existing curb and gutter that has not been placed by CONTRACTOR.
2. **PRODUCTS**
  - A. Reinforcement: Galvanized or epoxy coated, 60 ksi yield grade steel, ASTM A615.
  - B. Adhesive: Epoxy adhesive grout, APWA Section 03 61 00.
  - C. Bond Breaker: Paraffin wax, lithium grease, or other semi-solid, inert lubricant.
  - D. Expansion Cap: Plastic, with bar movement allowance of 1/2-inch.
3. **EXECUTION**
  - A. Ensure drill rigs (or jigs) are set at mid-depth of the gutter and horizontal to the surface. Make hole size large enough to account for dowel bar and adhesive.
  - B. Clean holes and dowel bars of dirt, dust and particles. Ensure coating on bars have no surface defects.
  - C. Place bonding agent in the back of each hole so adhesive flows out around each bar fully encasing it. DO NOT apply adhesive to end of the bar and then insert the bar into the hole.
  - D. Insert dowels with at least one full turning motion and if necessary, place a groud retention disk on the dowel after insertion to contain adhesive.
  - E. Apply complete coverage of bond-breaker on the protruding end of each dowel.
  - F. Install expansion caps on protruding dowel bar ends.

206



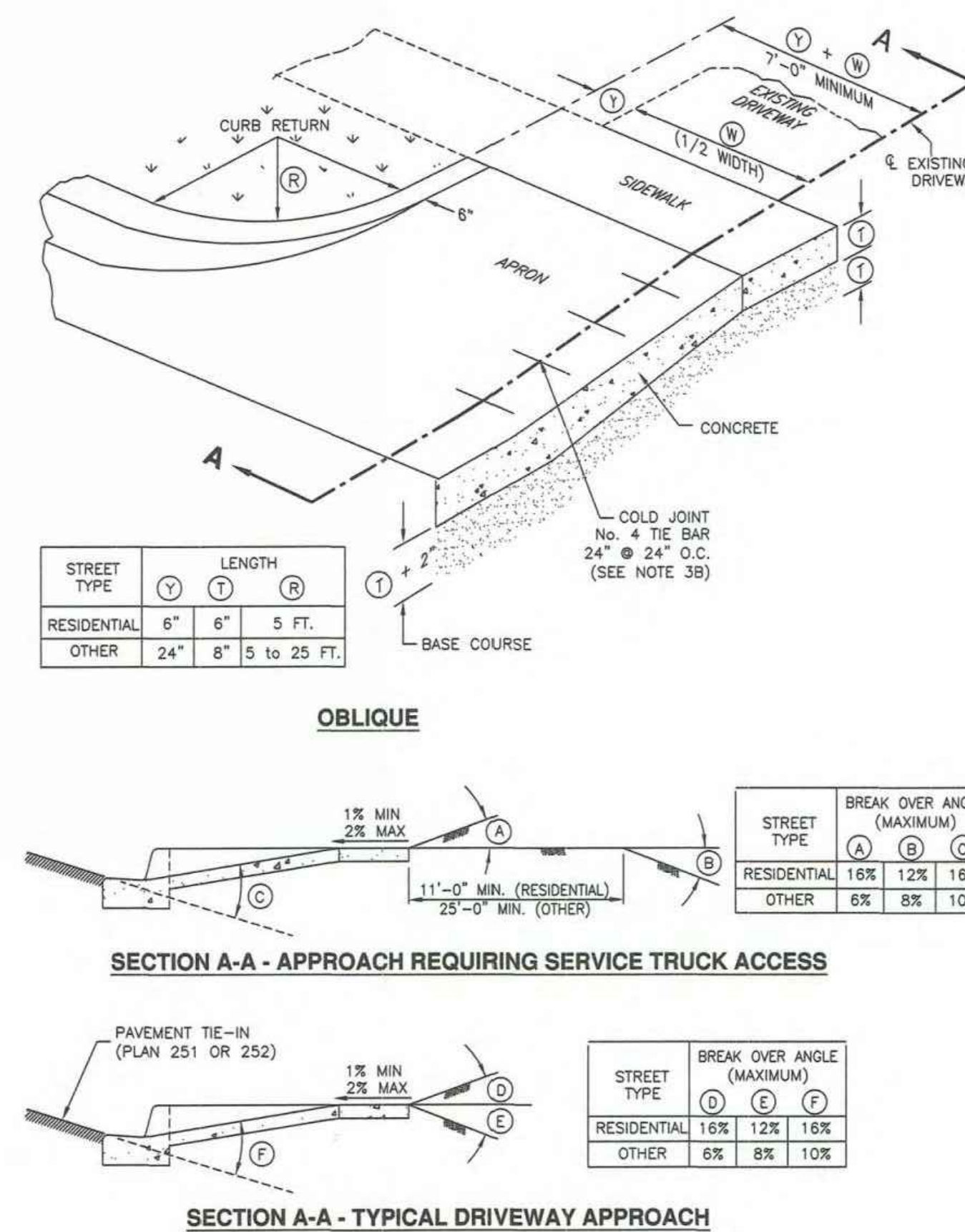
Curb and gutter connection

Plan 206  
June 2009

**Open driveway approach**

1. **GENERAL**
  - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
  - B. Field Changes to Slope Requirements:
    - 1) Grades may have a 6 percent change in slope over a 11 feet wheel base run for both crest or sag vertical curves.
    - 2) Where heavy truck use and fire truck access applies, or to improve design speed, design grades should be cut in half.
    - 3) Specific uses or site conditions may require profile design submittal for review and acceptance.
  - C. Additional requirements are specified in APWA Section 32 16 13.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
  - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
  - D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
  - E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. **EXECUTION**
  - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
  - B. Reinforcement: Not required if driveway apron is constructed without a cold joint.
  - C. Concrete Placement: APWA Section 03 30 10.
    - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
    - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
    - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - D. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.

225



Open driveway approach

Plan 225  
December 2009

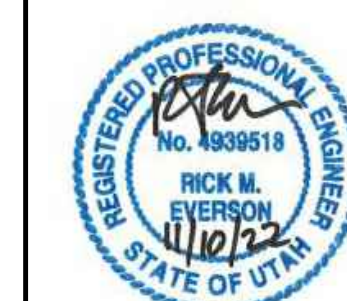
THE MEWS TOWNHOMES  
720 SOUTH 300 EAST, SALT LAKE CITY  
CIVIL SITE DETAILS

OWNER  
DIGS UTAH LLC  
BOGART MCAVOY  
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SALT LAKE CITY, UT 84158  
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C102

REVISIONS:

#

DATE

DATE SUBMITTED: 11/10/2022

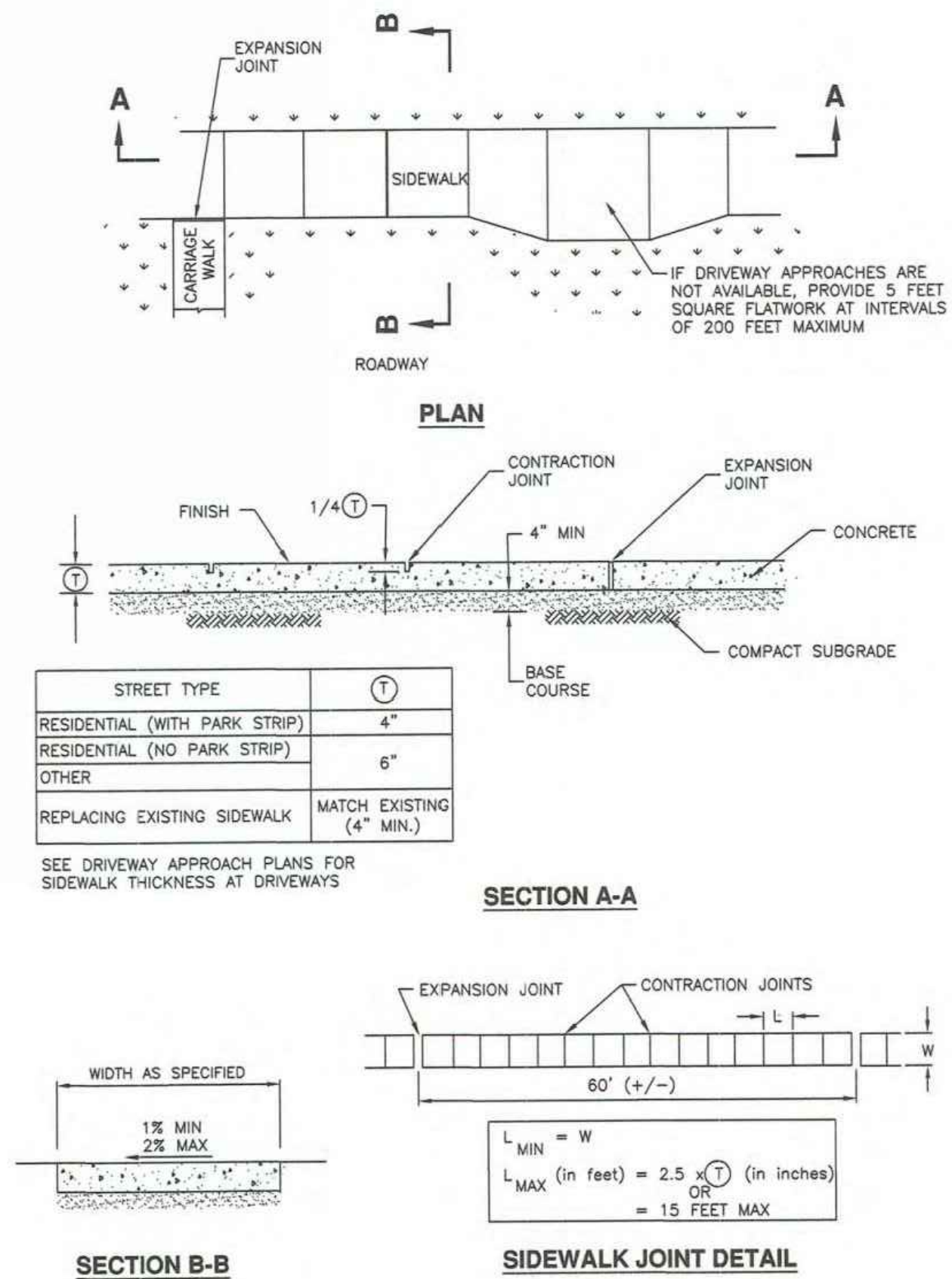
PREPARED FOR: BOGART MCAVOY



**Sidewalk**

1. **GENERAL**
  - A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
  - B. Additional requirements are specified in APWA Section 32 16 13.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
  - C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
  - D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.
3. **EXECUTION**
  - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
  - B. Concrete Placement: APWA Section 03 30 10.
    - 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
    - 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
    - 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

231



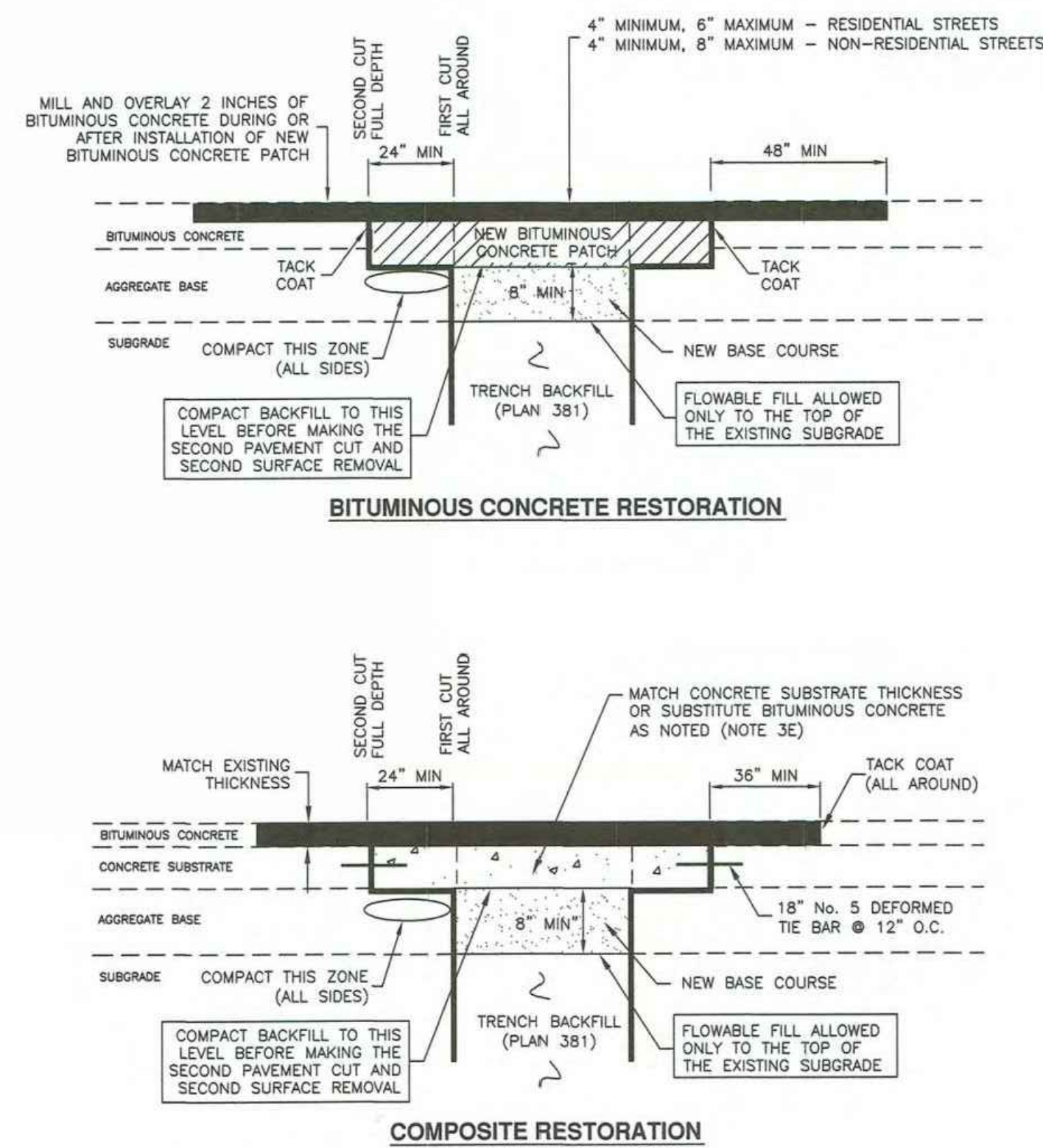
Sidewalk

Plan  
231  
March 2009

**Bituminous pavement T-patch**

1. **GENERAL**
  - A. Vertical cuts in bituminous pavement may be done by saw or pavement zipping. If cuts greater than 6 inches are necessary to prevent pavement "break off" consult ENGINEER for directions on handling additional costs.
  - B. Repair a T-patch restoration if any of the following conditions occur prior to final payment or at the end of the one year correction period.
    - 1) Pavement surface distortion exceeds 1/4-inch deviation in 10 feet. Repair option - plane off surface distortions. coat planed surface with a cationic or anionic mulsion that complies with APWA Section 32 12 03.
    - 2) Separation appears at a connection to an existing pavement or any Street Fixture. Repair option - blow separation clean and apply joint sealant, Plan 265.
    - 3) Cracks at least 1-foot long and 1/4-inch wide occur more often than 1 in 10 square feet. Repair option - blow clean and apply crack seal, Plan 265.
    - 4) Pavement raveling is greater than 1 square foot per 100 square feet. Repair option - Mill and inlay, APWA Sections 32 01 16.71 and 32 12 05.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
  - C. Reinforcement. No. 5, galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
  - D. Concrete: Class 4000, APWA Section 03 30 04.
  - E. Tack Coat: APWA Section 32 12 13.13.
  - F. Bituminous Concrete. APWA Section 32 12 05.
    - 1) Warm Weather Patch: PG64-22-DM-1/2, unless indicated otherwise.
    - 2) Cold Weather Patch: Modified MC-250-FM-1 as indicated in APWA Section 33 05 25.
3. **EXECUTION**
  - A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
  - B. Flowable Fill: Cure to initial set before placing aggregate base or bituminous pavement. Use in excavations that are too narrow to receive compaction equipment.
  - C. Tack Coat: Clean all horizontal and vertical surfaces. Apply full coverage all surfaces.
  - D. Pavement Placement: Follow APWA Section 32 12 16.13. Unless indicated otherwise, lift thickness is 3-inches minimum after compaction. Compact to 94 percent of ASTM D2041 (Rice density) plus or minus 2 percent.
  - E. Bituminous Concrete Substitution: If bituminous concrete is substituted for Portland cement concrete substrate, omit rebar and provide 1.25 inches of bituminous concrete for each 1 inch of Portland cement concrete. Follow paragraph E requirements.
  - F. Reinforcement: Required if thickness of existing Portland-cement concrete substrate is 6-inches or greater. Not required if 1) less than 6-inches thick, 2) if existing concrete is deteriorating, 3) if excavation is less than 3 feet square, or 4) if bituminous pavement is substituted for Portland-cement concrete substrate.
  - G. Concrete Substrate: Cure to initial set before placing new bituminous concrete patch.

255



Bituminous pavement T-patch

Plan  
255  
November 2015

THE MEWS TOWNHOMES  
720 SOUTH 300 EAST, SALT LAKE CITY  
CIVIL SITE DETAILS

DATE SUBMITTED: 11/10/2022

PREPARED FOR: BOGART MCAVOY

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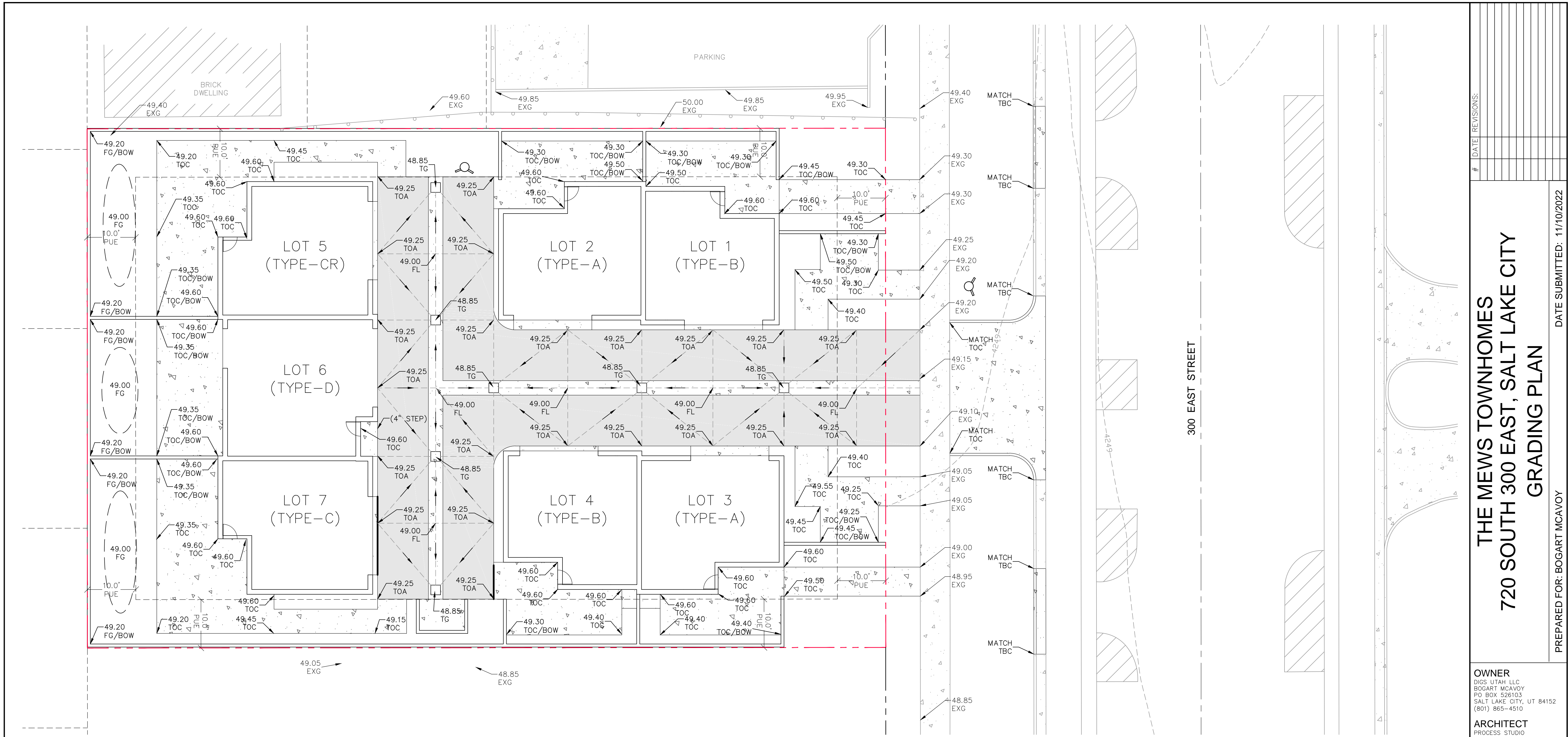
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C103



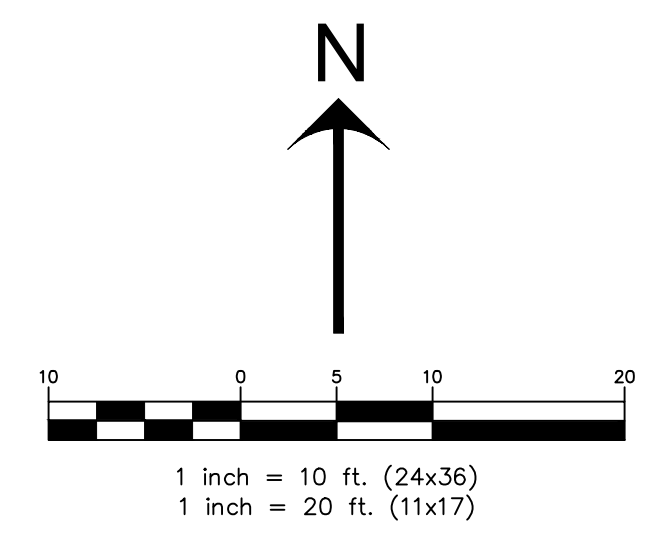


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**ABBREVIATIONS**

BOW	BOTTOM OF WALL
EXG	EXISTING GRADE
EOC	EDGE OF CONCRETE
EOW	END OF WALL
EX	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
TBC	TOP BACK OF CURB
TOC	TOP OF CONCRETE
TG	TOP OF GRATE
TOA	TOP OF ASPHALT
TOW	TOP OF WALL



#	DATE	REVISIONS:

**THE MEWS TOWNHOMES**  
**720 SOUTH 300 EAST, SALT LAKE CITY**  
**GRADING PLAN**

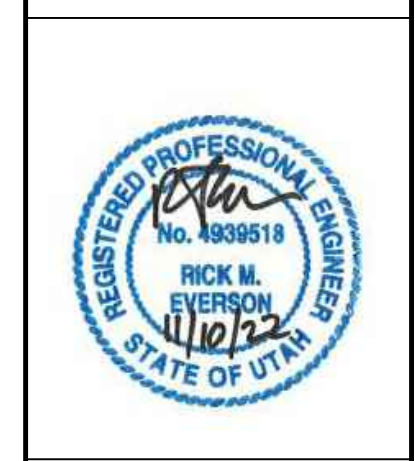
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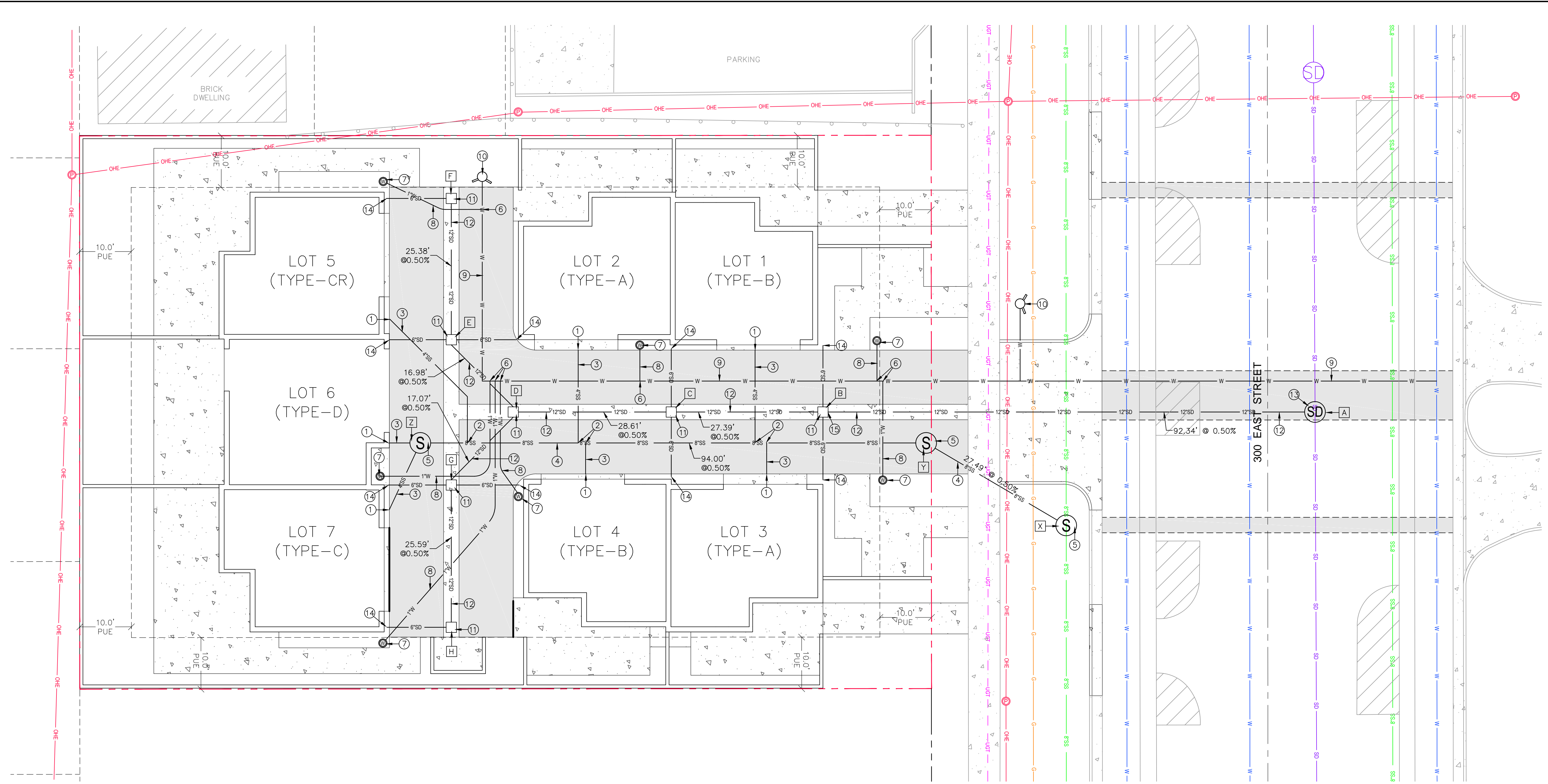
**CIVIL ENGINEER**  
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**SURVEYOR**  
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 RUSS CAMPBELL  
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 (801) 209-2152



**C201**





**GENERAL NOTES**

- ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: SALT LAKE CITY, SALT LAKE CITY DEPARTMENT OF PUBLIC WORKS, PRODUCT MANUFACTURERS, OR AMERICAN PUBLIC WORKS ASSOCIATION (APWA). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY.
- ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS.
- ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF ON-SITE SURVEYS (BY OTHERS). PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES.
- CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST PRIOR TO BEGINNING ANY EXCAVATION.
- CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
- ALL PIPE TRENCHING PER APWA STANDARD PLAN #381 & #382.

**KEYED NOTES**

- UTILITY CONNECTION TO BUILDING. REFERENCE PLUMBING PLANS
- INSTALL SEWER LATERAL CONNECTION PER APWA PLAN #431
- INSTALL 4" PVC SDR 35 SEWER LATERAL AT 2% MIN SLOPE
- INSTALL 8" PVC SDR 35 SEWER MAIN
- INSTALL 4' SEWER MANHOLE, LID, AND COLLAR PER APWA PLANS #411, #402, AND #413
- INSTALL 1" WATER SERVICE TAP PER APWA PLAN #551
- INSTALL 1" WATER METER PER APWA PLAN #521
- INSTALL 1" TYPE K SOFT COPPER WATER LATERAL PER APWA PLAN #541
- INSTALL 6" DUCTILE IRON CL52 WATER PIPE WITH THRUST BLOCKING PER APWA PLAN #561
- INSTALL FIRE HYDRANT PER APWA PLAN #511
- INSTALL 2'X2' PRECAST STORM DRAIN INLET PER APWA PLAN #332
- INSTALL 12" RCP STORM DRAIN PIPE
- INSTALL 4' STORM DRAIN MANHOLE WITH CAST IN PLACE BASE PER APWA PLAN #341.1
- APPROXIMATE ROOF DRAIN DOWNSPOUT CONNECTION, COORDINATE WITH FINAL BUILDING DRAWINGS FOR EXACT LOCATION. PROVIDE MINIMUM 2% SLOPE TO CATCH BASIN.
- INSTALL SNOOT OIL & DEBRIS STOP (MODEL 18F) ON OUTLET PIPE

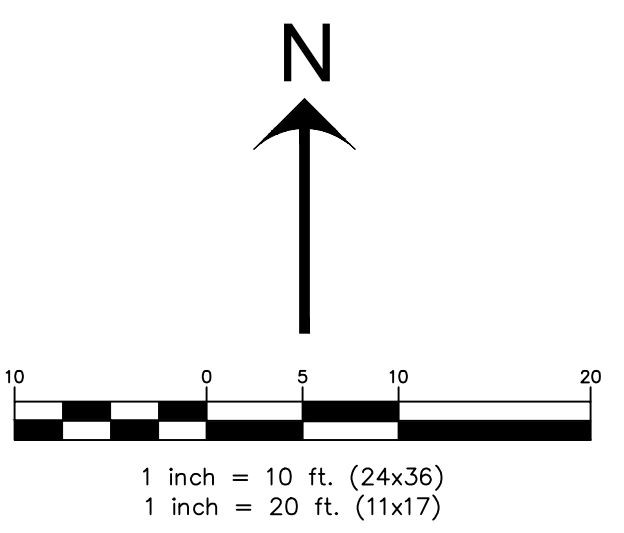
**STORM DRAIN BOX DATA**

BOX	GRATE/RIM	INVERT	BOTTOM/SUMP
A	49.50	45.50*	UNKNOWN
B	48.85	45.96	42.85
C	48.85	46.10	44.85
D	48.85	46.24	44.85
E	48.85	46.33	44.85
F	48.85	46.46	44.85
G	48.85	46.33	44.85
H	48.85	46.46	44.85

**SEWER MANHOLE DATA**

MH	GRATE/RIM	INVERT (IN)	INVERT (OUT)
X	49.00	41.86	41.66
Y	49.15	42.20	42.00
Z	49.10	42.87	42.67

\*THE CITY STORM DRAIN MANHOLES UPSTREAM AND DOWNSTREAM OF THE TIE-IN POINT ARE SEALED AND INACCESSIBLE. DESIGN TEAM WAS UNABLE TO OBTAIN CITY RECORDS FOR INFORMATION ON EXACT DEPTH SO THE STORM DRAIN DESIGN IS BASED ON AN ASSUMED ELEVATION AND NEEDS TO BE VERIFIED AND POSSIBLY ADJUSTED ONCE THE EXISTING STORM DRAIN IS EXPOSED.



# DATE REVISIONS:

**THE MEWS TOWNHOMES**  
**720 SOUTH 300 EAST, SALT LAKE CITY**  
**SITE UTILITY PLAN**

DATE SUBMITTED: 11/10/2022  
 PREPARED FOR: BOGART MCAVOY

**OWNER**  
 DIGS UTAH LLC  
 BOGART MCAVOY  
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**ARCHITECT**  
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**RICK M. EVERSON**  
 No. 4939518  
 11/10/22  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF UTAH

**C301**



**Precast box**

**1. GENERAL**

- A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
- B. This drawing is acceptable where the water table elevation is less than 3 feet above the floor of the box. If elevation of water table is higher, engineering calculations and drawings must be submitted to and approved by the ENGINEER.
- C. Submit bar design detail for ENGINEER's review.

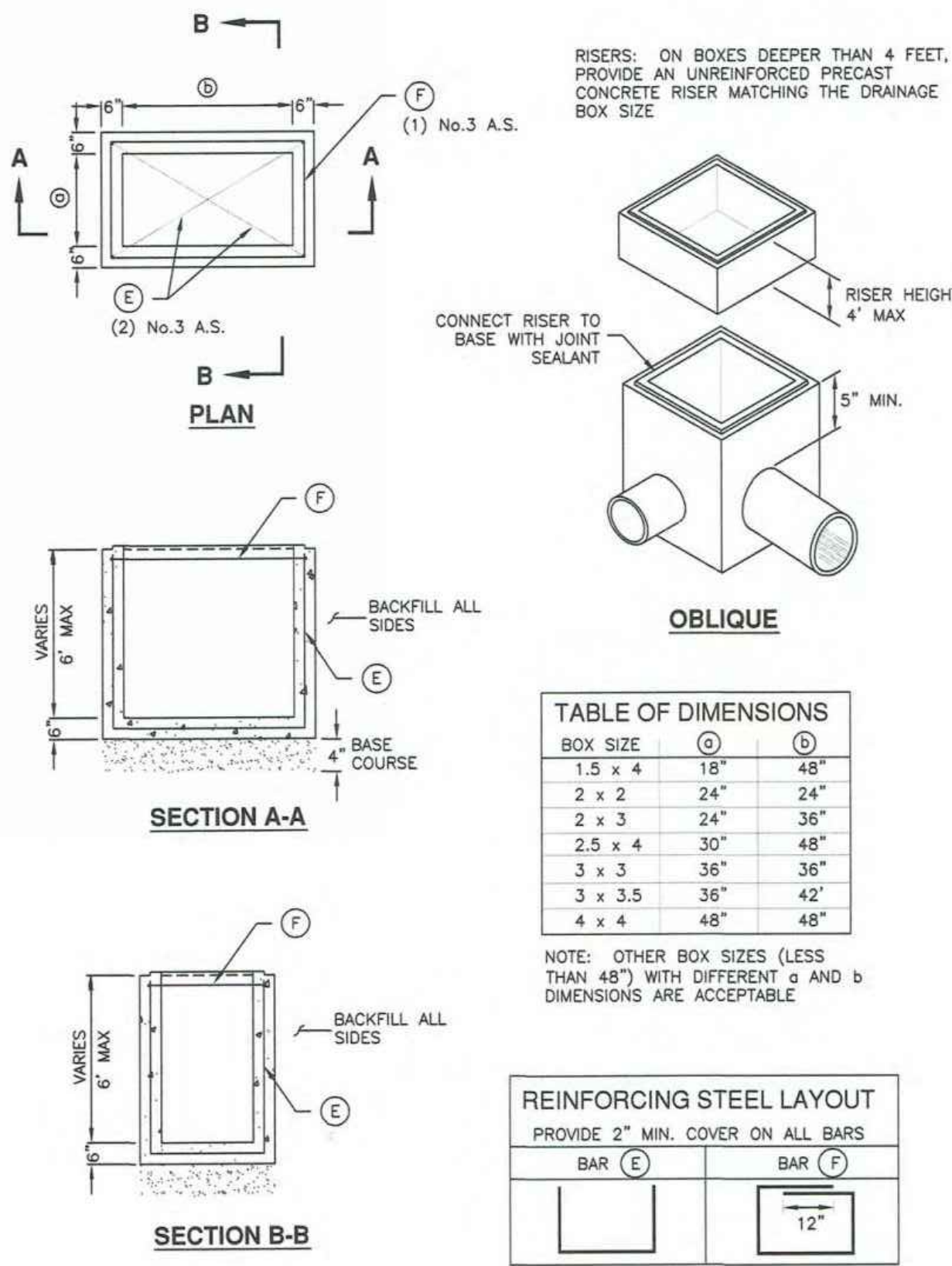
**2. PRODUCTS**

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Precast Concrete: Class 4000 precast, APWA Section 03 40 00.
- D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615. Coated steel is not required for small drainage structures shown on this drawing.
- E. Frame and Cover (or Grate): Use the appropriate unit indicated in the Contract Documents.
- F. Joint Sealant: Rubber-based, compressible.

**3. EXECUTION**

- A. Concrete Placement: Provide 2-inches of concrete cover over reinforcing steel.
- B. Lifting Points: Provide at least 2 lifting points per section that avoid interference with the reinforcing steel and that are designed according to PCI (Prestressed Concrete Institute) design handbook. Lift only from the engineered lifting points.
- C. Depth: Drainage boxes and riser combinations that exceed 8-feet from finished grade to the bottom of the box requires ENGINEER's approval. Submit design calculations and shop drawings.
- D. Core Holes:
  - 1) Provide core holes that are at least 4" larger than attaching outer pipe diameter. Cut core holes at the manufacturing plant unless ENGINEER permits field core holes.
  - 2) Center core holes to leave 2" of concrete measured horizontally from inside wall of the box to core hole. Locate core hole vertically so bottom of core hole will be at or above floor elevation with at least 5-inches of concrete directly above the core hole to the top of the box.
  - 3) Deviations from core hole tolerances require shop drawings. Shop drawings will identify lifting point number and location.
- E. Precast Top: Design precast top for AASHTO HL-93 live loads and submit rebar detail and stamped design drawings to ENGINEER. Show connection detail for frame and grate or cover.

332



Precast box

Plan 332  
June 2010



**Precast manhole**

**1. GENERAL**

- A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
- B. Manhole size:
  - 1) Diameter is 4-feet: For pipe under 12" diameter.
  - 2) Diameter is 5-feet: For pipe 12" and larger, or when 3 or more drain pipes intersect the manhole.
- C. Wall thickness:
  - 1) Precast reinforced concrete walls 4 3/4" minimum.
  - 2) Cast-in-place concrete to be 8 inches thick minimum.

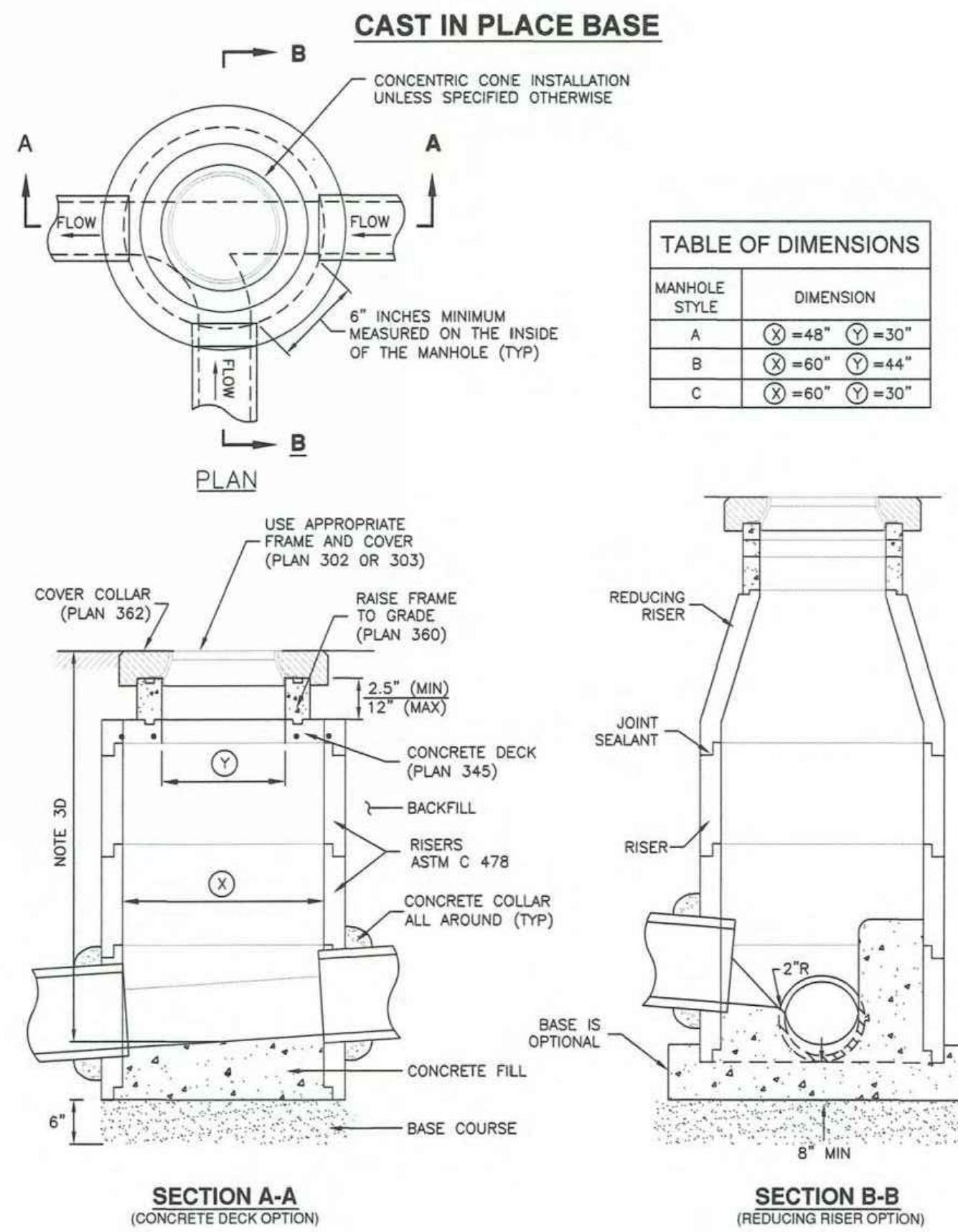
**2. PRODUCTS**

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Concrete: Class 4000, APWA Section 03 30 04.
- D. Riser and Reducing Riser: ASTM C478.
- E. Joint Sealant: Rubber based, compressible.
- F. Grout: 2 parts sand to 1 part cement mortar, ASTM C1329.
- G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

**3. EXECUTION**

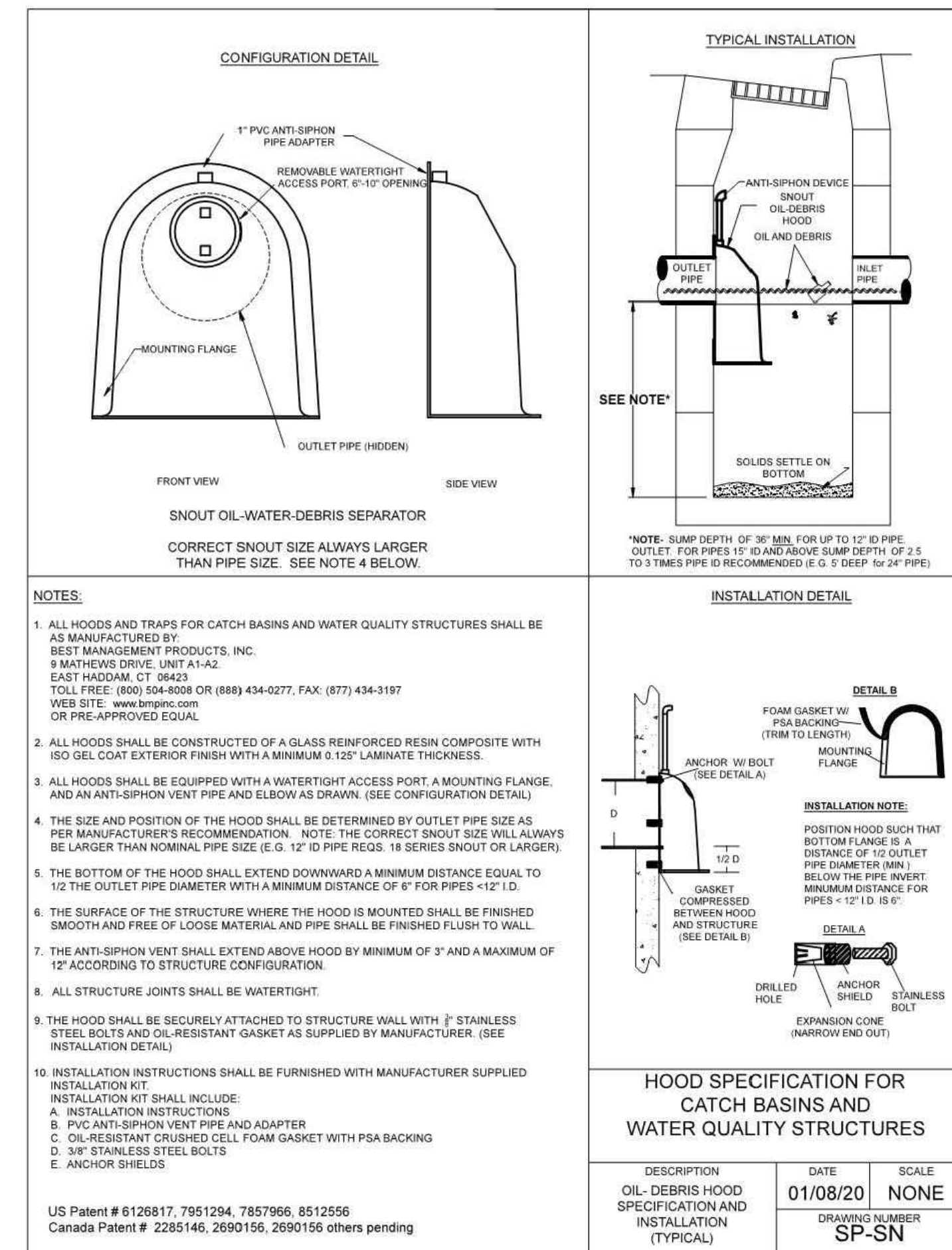
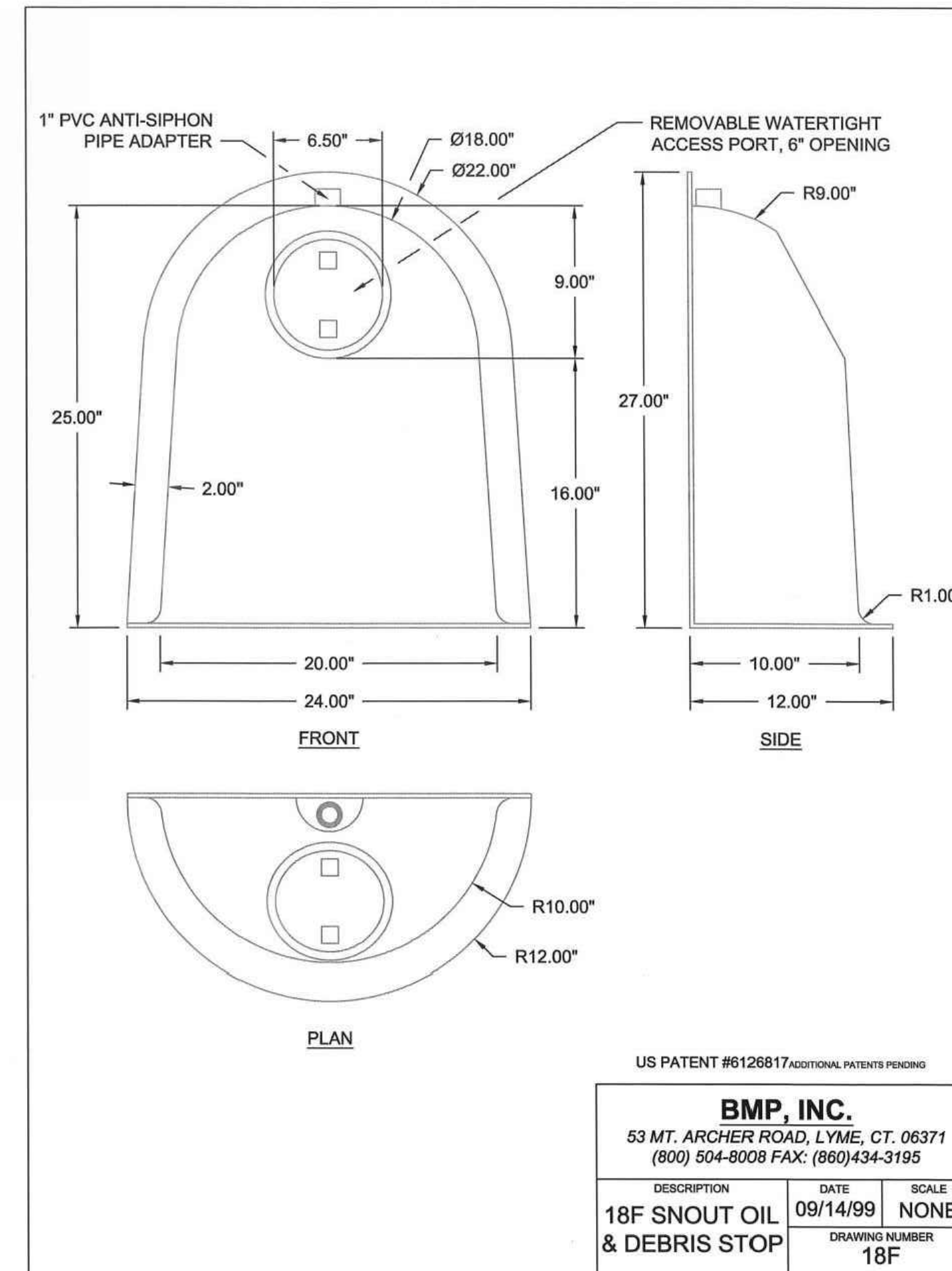
- A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a sewer rock in a geotextile wrap to stabilize an unstable foundation.
- B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- C. Invert cover: During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
- D. Concrete Deck or Reducing Riser: When depth of manhole from pipe invert to finish grade exceeds 7 feet, use an ASTM C478 reducing riser.
- E. Pipe Connections: Grout around all pipe openings.
- F. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
- G. Joints: Place flexible sealant in all riser joints. Finish with grout.
- H. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.
- I. Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
- J. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

341.1



Precast manhole

Plan 341.1  
November 2010



THE MEWS TOWNHOMES  
720 SOUTH 300 EAST, SALT LAKE CITY  
SITE UTILITY DETAILS

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DIGS UTAH LLC  
BOGART MCAVOY  
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C302

# DATE REVISIONS:

DATE SUBMITTED: 11/10/2022

PREPARED FOR: BOGART MCAVOY

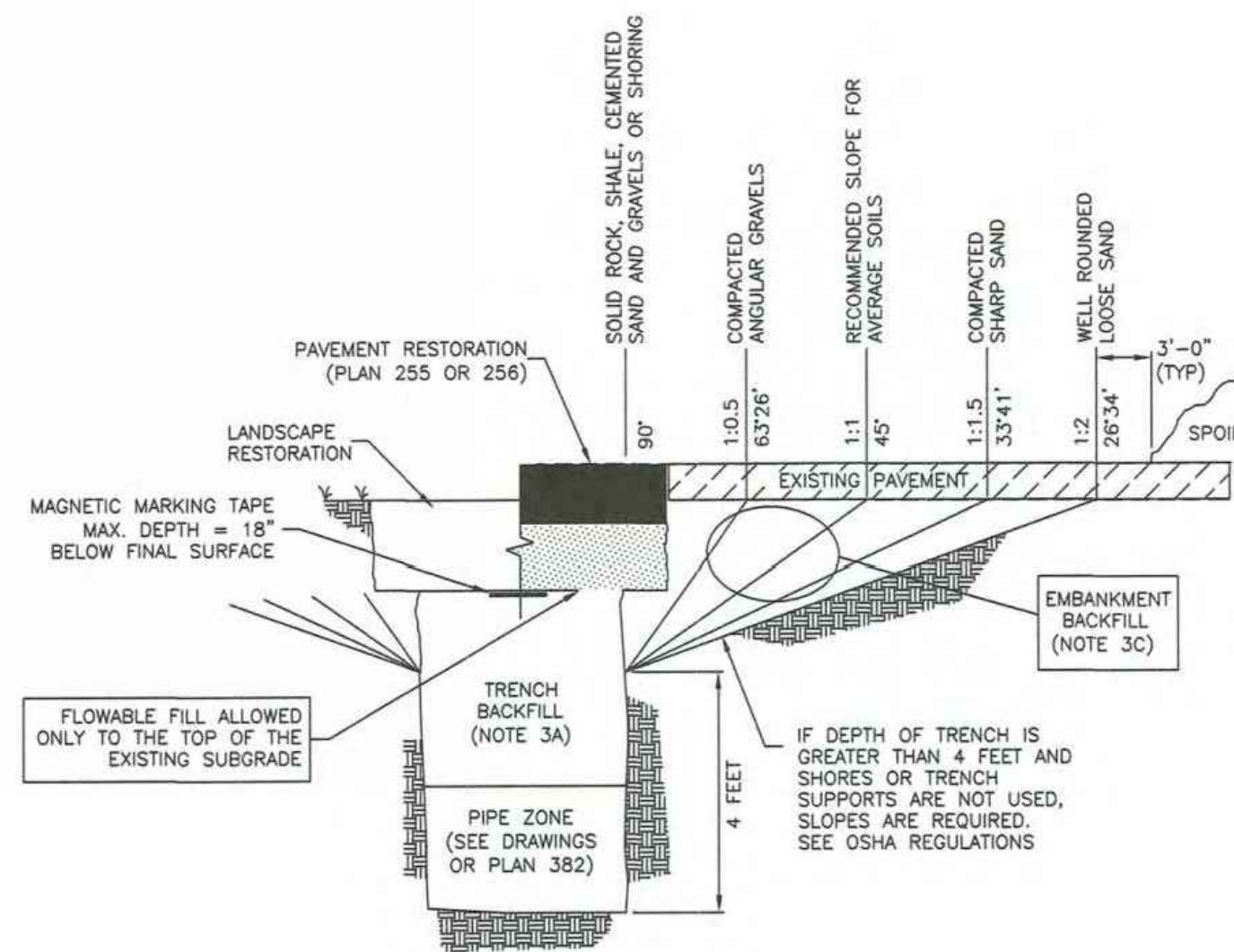


**Trench backfill**

1. **GENERAL**
  - A. The drawing applies to backfilling a trench (and embankment) above the pipe zone.
2. **PRODUCTS**
  - A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
  - B. Flowable Fill: APWA Section 31 05 15. Target is 60 psi in 28 days with 90 psi maximum in 28 days, It must flow easily requiring no vibration for consolidation.
3. **EXECUTION**
  - A. Trench Backfill Above the Pipe Zone: Follow requirement indicated in APWA Section 33 05 20 and the following provisions. See Standard Plan 382 for backfilling the pipe zone.
    - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
    - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
    - 3) Water jetting is NOT allowed.
  - B. Flowable Fill: If controlled low strength material is placed in the trench. Cure the material before placing surface restorations.
  - C. Embankment Backfill: When trench sides are sloped proceed as follows.
    - 1) Maximum lift thickness is 8-inches before compaction.
    - 2) Compact per APWA Section 31 23 26 to 95 percent or greater relative to a standard proctor density.
    - 3) Submission of quality control compaction test result data may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
  - D. Surface Restoration:
    - 1) Landscaped Surface: Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements. Rake to match existing grade. Replace vegetation to match pre-construction conditions.
    - 2) Paved Surface: Follow APWA Section 33 05 25 (bituminous pavement surfacing), or APWA Section 33 05 25 (concrete pavement surfacing). Do not install surfacing until compaction density is acceptable to ENGINEER.

381

NARRATIVE: THIS PLAN SHOWS VARIOUS SLOPES RECOMMENDED FOR VARIOUS TYPES OF SLOPE STABILITY PROBLEMS. THE VERTICAL TEXT INDICATES VARIOUS MATERIALS THAT MAY BE ENCOUNTERED. THE SERVICES OF A PROFESSIONAL SOILS ENGINEER SHOULD BE USED TO VERIFY SLOPE STABILITY.



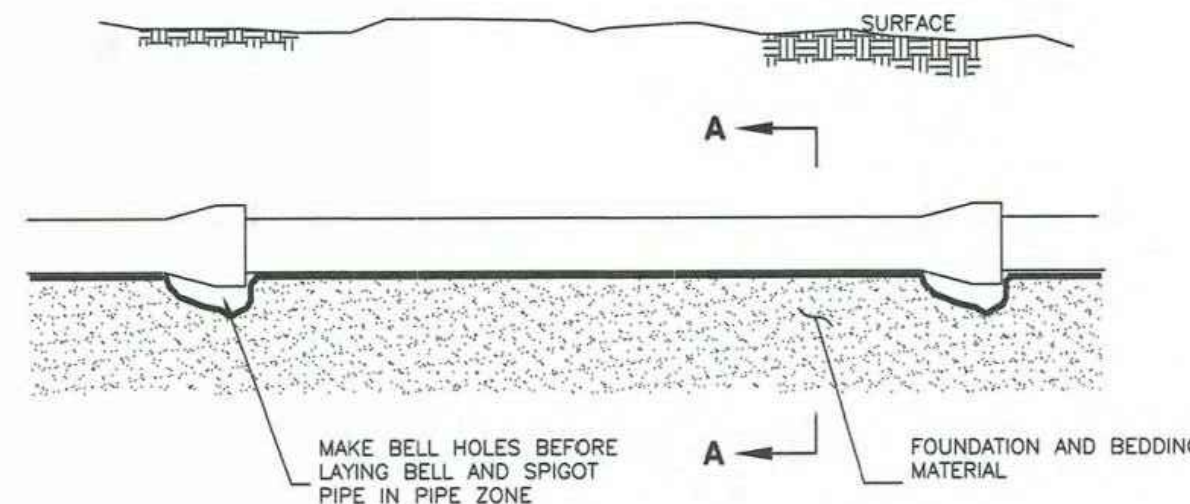
Trench backfill

Plan 381  
July 2016

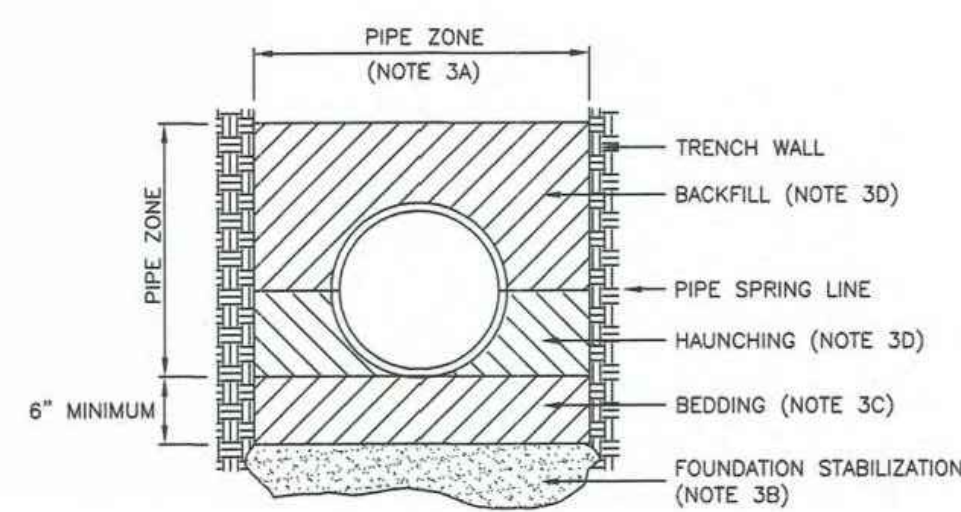
**Pipe zone backfill**

1. **GENERAL**
  - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Concrete: APWA Section 03 30 04.
  - D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
  - E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. **EXECUTION**
  - A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
  - B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
  - C. Bedding: Follow APWA Section 33 05 20 requirements and the following provisions.
    - 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
    - 2) Maximum lift thickness is 8-inches.
    - 3) Bedding immediately under the pipe should not be compacted, but loosely placed.
    - 4) Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
    - 5) When using concrete, provide at least Class 2,000, APWA Section 03 30 04.
  - D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
    - 1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
    - 2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
  - E. Flowable Fill (when required and if allowed by pipe manufacturer):
    - 1) Place the controlled low strength material, APWA Section 31 05 15.
    - 2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
    - 3) Reset pipe to line and grade if pipe "floats" out of position.

382



ELEVATION VIEW



SECTION A-A

**INSTALLATION**

CONCRETE PIPE: FOLLOW ASTM C 1479  
 \*STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.  
 PLASTIC PIPE: FOLLOW ASTM D 2321  
 \*STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS  
 CORRUGATED METAL PIPE: FOLLOW ASTM A 798  
 \*STANDARD PRACTICE FOR INSTALLING FACTORY-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.  
 VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.  
 \*STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.



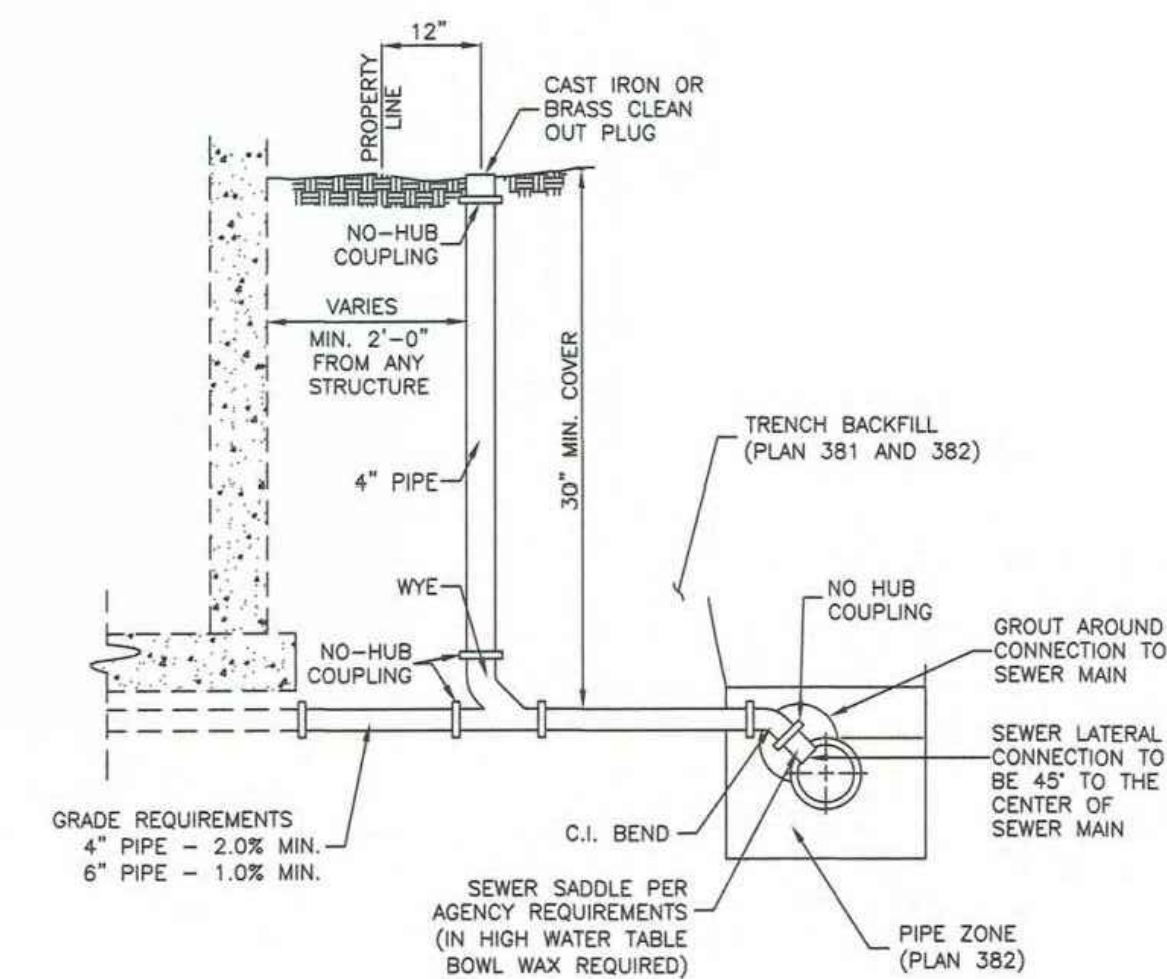
Pipe zone backfill

Plan 382  
January 2011

**Sewer lateral connection**

1. **GENERAL**
  - A. Before installation, secure acceptance by ENGINEER for all pipe, fittings, and couplings to be used.
  - B. Before backfilling, secure inspection of installation by ENGINEER. Give at least 24 hours notice.
  - C. Verify if CONTRACTOR or agency is to install the wye.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Provide agency approved wye or tee with appropriate donut.
  - D. Stainless steel straps required.
3. **EXECUTION**
  - A. Tape wrap pipe as required by soil conditions.
  - B. Remove core plug from sewer main. Do not break into sewer main to make connection.
  - C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

431



Sewer lateral connection

Plan 431  
January 2011

THE MEWS TOWNHOMES  
 720 SOUTH 300 EAST, SALT LAKE CITY  
 SITE UTILITY DETAILS

DATE SUBMITTED: 11/10/2022

PREPARED FOR: BOGART MCAVOY

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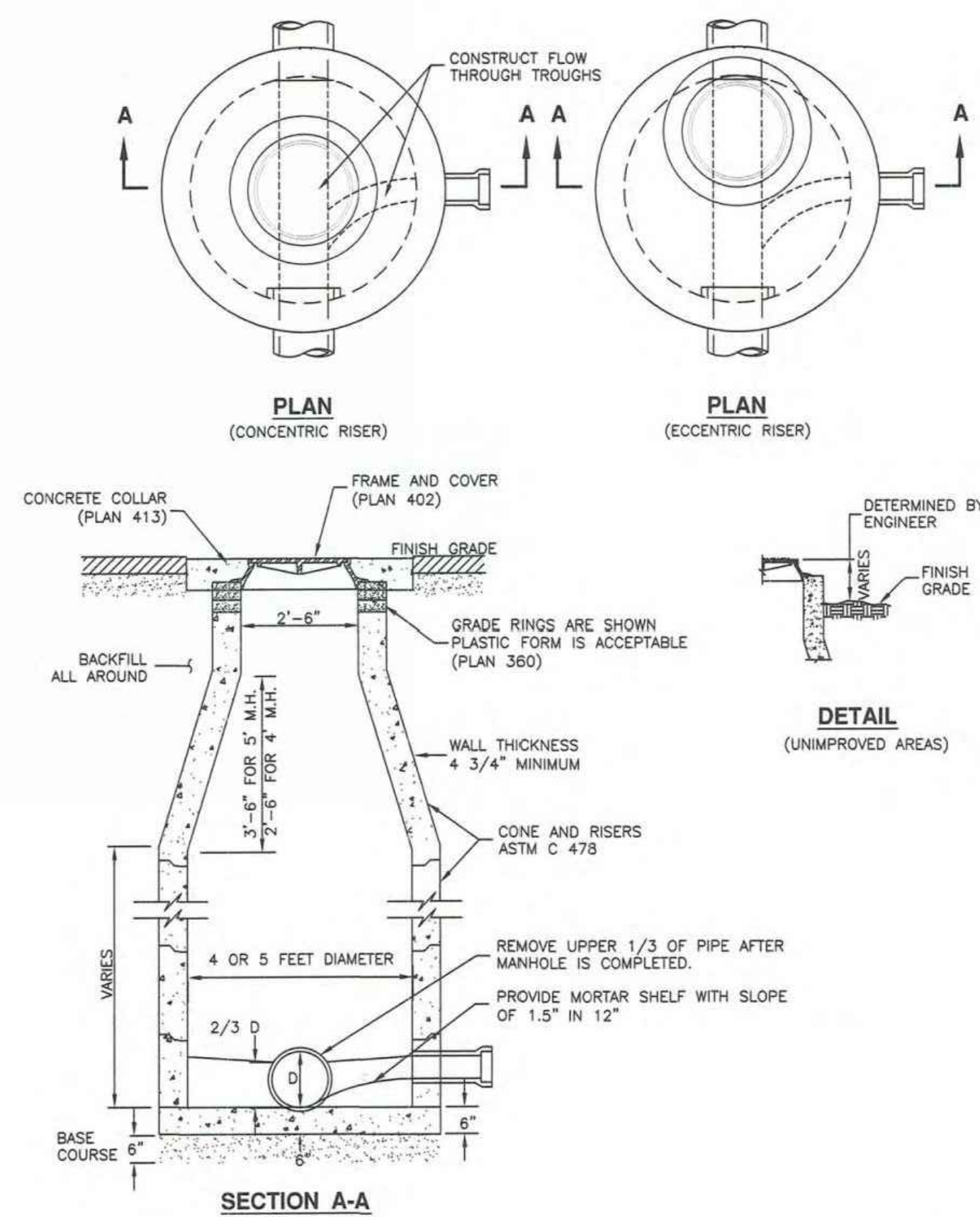
C303



Sanitary sewer manhole

1. **GENERAL**
  - A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
  - B. Manhole size.
    - 1) Diameter is 4 feet: For sewers under 12" diameter.
    - 2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Concrete: Class 4000, APWA Section 03 30 04.
  - D. Riser and Reducing Riser: ASTM C478.
  - E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
  - F. Grout: 2 parts sand to 1 part cement mortar, ASTM C1329.
  - G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. **EXECUTION**
  - A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.
  - B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
  - C. Invert Cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
  - D. Pipe Connections: Grout around all pipe openings.
  - E. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
  - F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout.
  - G. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.
  - H. Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
  - I. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

411



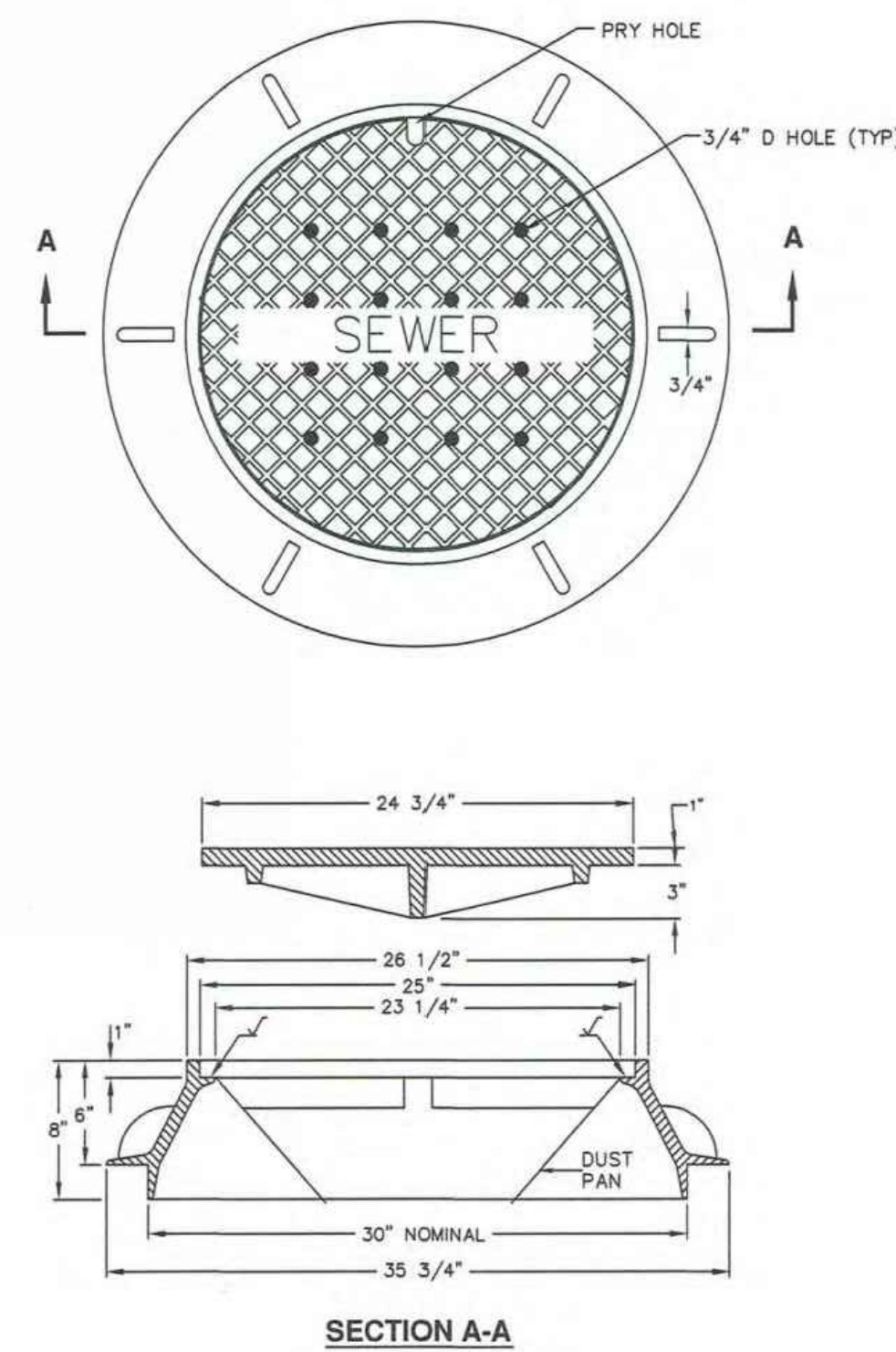
Sanitary sewer manhole

Plan  
**411**  
April 2011

30" Frame and cover

1. **GENERAL**
  - A. The frame and cover fits the manhole in Plan 411.
2. **PRODUCTS**
  - A. Castings: Grey iron class 35 minimum, ASTM A48, coated with asphalt based paint or better (except on machined surfaces).
    - 1) Cast the heat number on the frame and cover.
    - 2) Give the frame and cover a machine finish so the cover will not rock.
    - 3) √ designates machined surface.
    - 4) Cast the words "SEWER" on the cover in upper case flush with the surface finish.
3. **EXECUTION**
  - A. Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

402



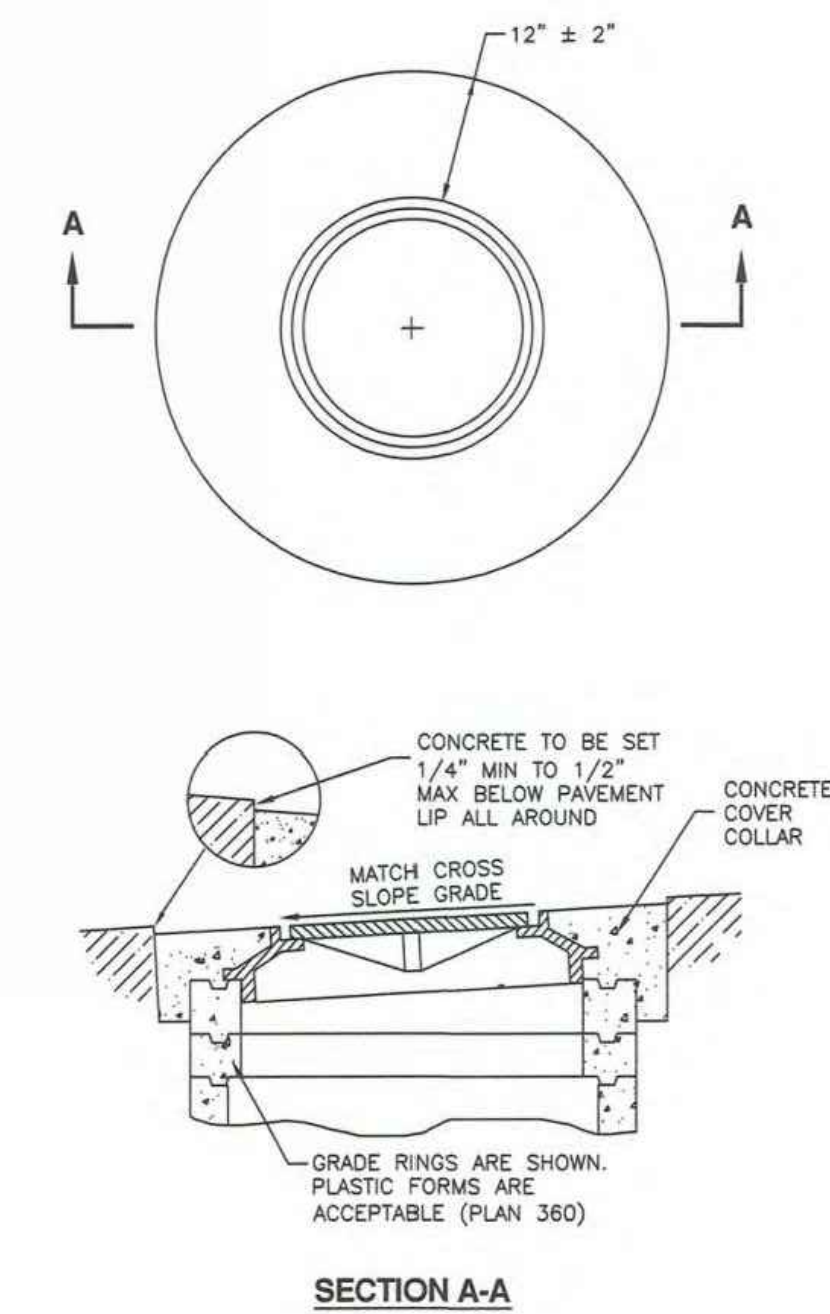
30" Frame and cover

Plan  
**402**  
April 1997

Cover collar for sanitary sewer manhole

1. **GENERAL**
  - A. In a pavement surface, the concrete will support the frame under traffic loadings.
2. **PRODUCTS**
  - A. Concrete: Class 4000, APWA Section 03 30 04.
  - B. Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.
3. **EXECUTION**
  - A. Pavement Preparation: Provide a neat vertical and concentric joint between the concrete collar and the bituminous pavement surface. Clean edges of all dirt, oil, and loose debris.
  - B. Concrete Placement: Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.

413



Cover collar for sanitary sewer manhole

Plan  
**413**  
September 2001

THE MEWS TOWNHOMES  
720 SOUTH 300 EAST, SALT LAKE CITY  
SITE UTILITY DETAILS

DATE SUBMITTED: 11/10/2022

PREPARED FOR: BOGART MCAVOY

**OWNER**  
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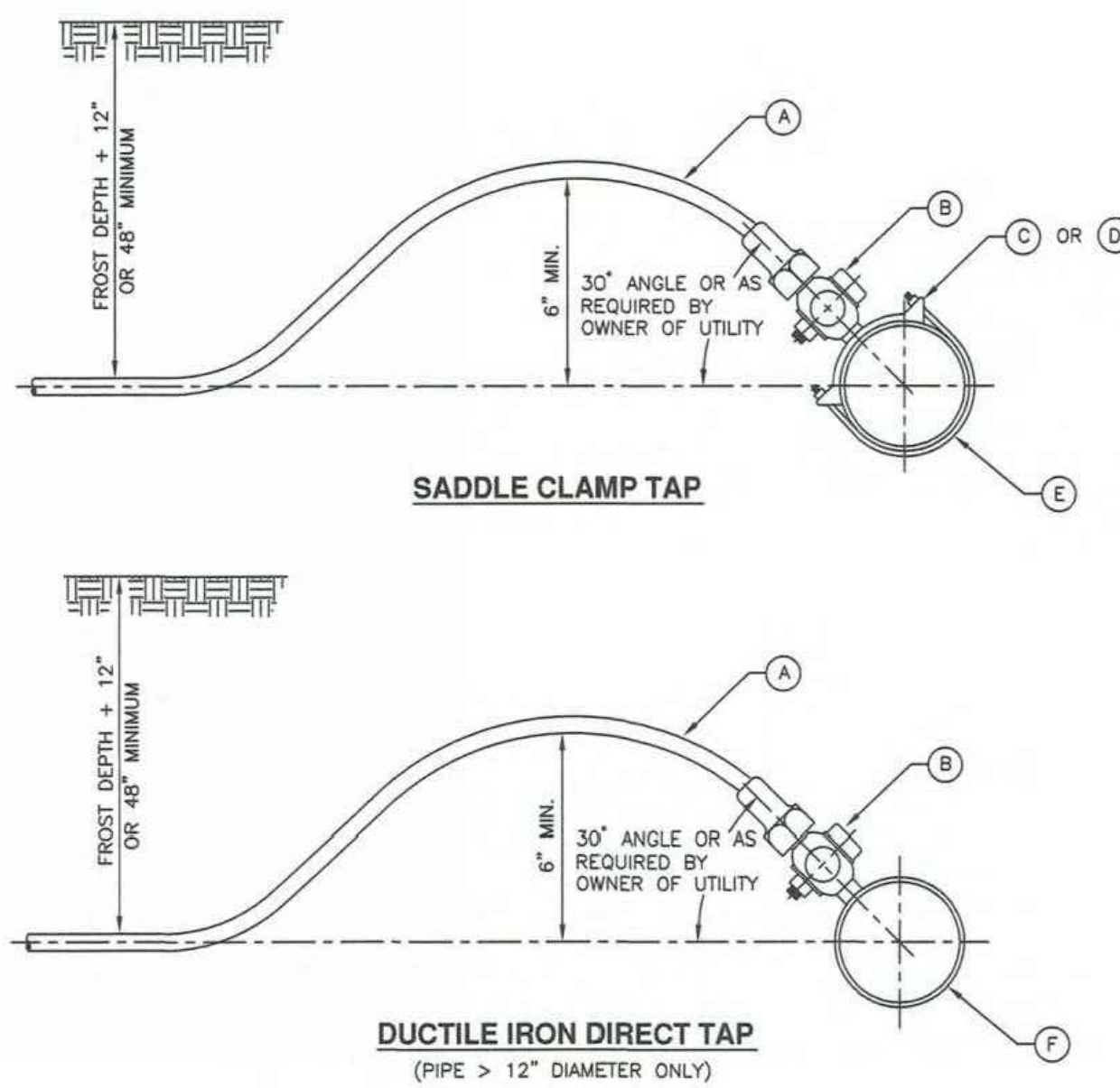
C304



**3/4" and 1" Service taps**

1. **GENERAL**
  - A. Before backfilling around taps, secure inspection of installation by ENGINEER.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Tape: Teflon tape is required on all taps.
3. **EXECUTION**
  - A. Tapping: Place taps a minimum of 36-inches apart. Use a tapping tool which is sized corresponding to the size of the service line to be installed. No taps within 36-inches of end of pipe.
  - B. PVC or AC Pipe: A service saddle clamp is required on all PVC and AC pipe taps unless specified otherwise.
  - C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

551



LEGEND			
No.	*	ITEM	DESCRIPTION
(A)		COPPER PIPE	TYPE K - SOFT
(B)		CORPORATION STOP	BRASS
(C)		SERVICE SADDLE CLAMP	(D.I., C.I., A.C.) **
(D)		SERVICE SADDLE CLAMP	(P.V.C.)
(E)		WATER MAIN PIPE	(D.I., C.I., A.C., P.V.C.)
(F)		WATER MAIN PIPE	(DUCTILE IRON (D.I.) ONLY)

\* FURNISHED BY UTILITY AGENCY  
 \*\* DI & CI PIPE MAY BE DIRECT TAPPED



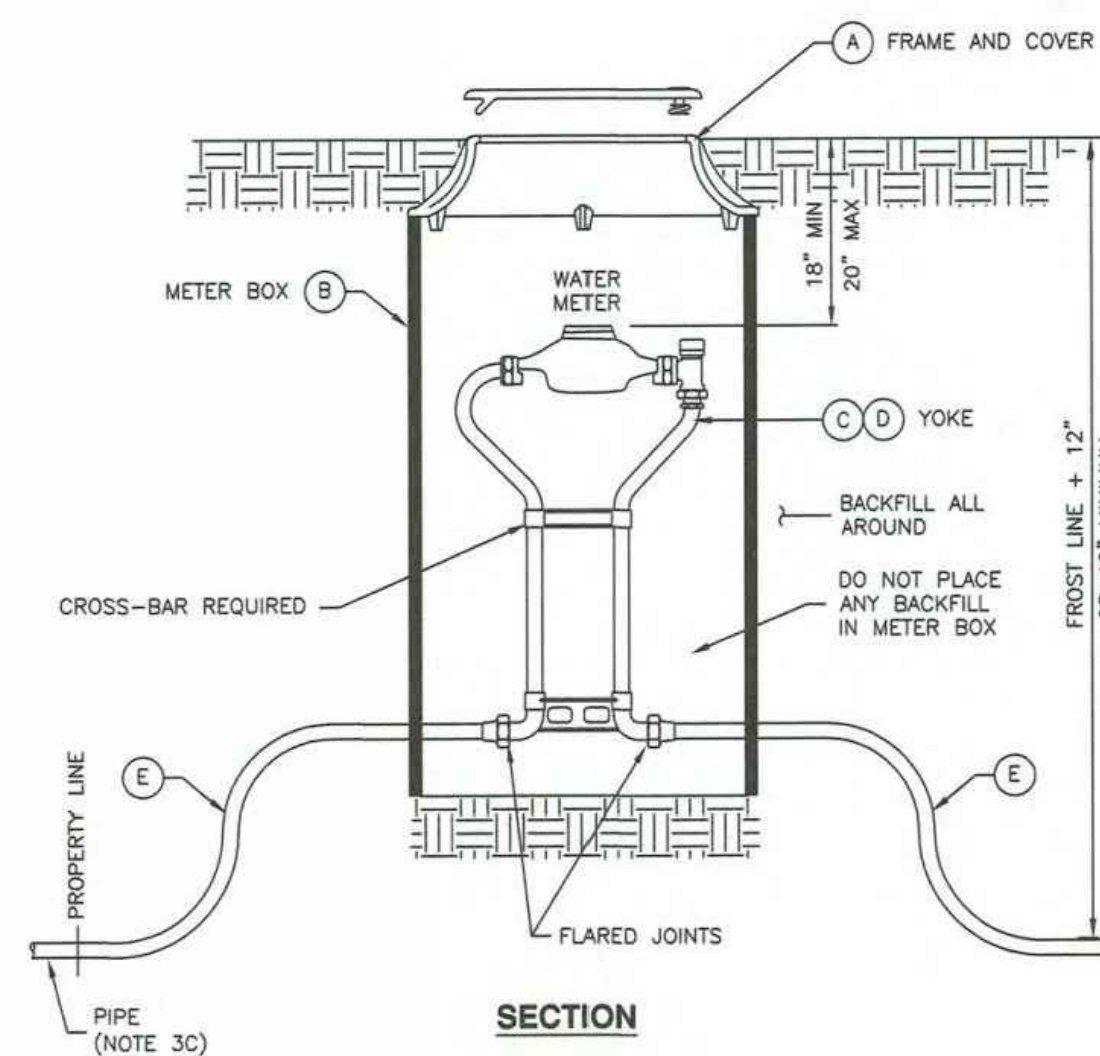
3/4" and 1" Service taps

Plan 551  
February 2011

**3/4" and 1" meter**

1. **GENERAL**
  - A. In street surfaces or other vehicular traffic areas (like driveway approaches), install the same type of meter box as required for 1 1/2" and 2" service meters. See Plan 522.
  - B. Before backfilling, secure inspection of installation by ENGINEER.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Castings: Grey iron class 35 minimum per ASTM A48, coated with asphalt based paint or better.
3. **EXECUTION**
  - A. Meter Placement:
    - 1) All meters are to be installed in the park strip or within 7 feet of the property line (street side).
    - 2) Do not install meters under driveway approaches, sidewalks, or curb and gutter.
  - B. Meter Box: Set box so grade of the frame and cover matches the grade of the surrounding surface.
  - C. Pipe Outside of Right-of-Way: Coordinate with utility agency or adjacent property owner for type of pipe to be used outside of right-of-way.
  - D. Inspection: Before backfilling around meter box, secure inspection of installation by ENGINEER.
  - E. Base Course and Backfill Placement: Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26. Maximum lift thickness before compaction is 8-inches.

521



LEGEND			
No.	*	ITEM	DESCRIPTION
(A)		FRAME AND COVER	CAST IRON COVER
(B)		METER BOX (18" TO 21" DIAMETER) (30" TO 36" DEEP)	CORRUGATED PE, PVC, CMP OR MATERIAL ACCEPTABLE TO AGENCY
(C)		3/4" METER YOKE	OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS
(D)		1" METER YOKE	OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS
(E)		COPPER PIPE	TYPE K (SOFT)

\* FURNISHED BY UTILITY AGENCY



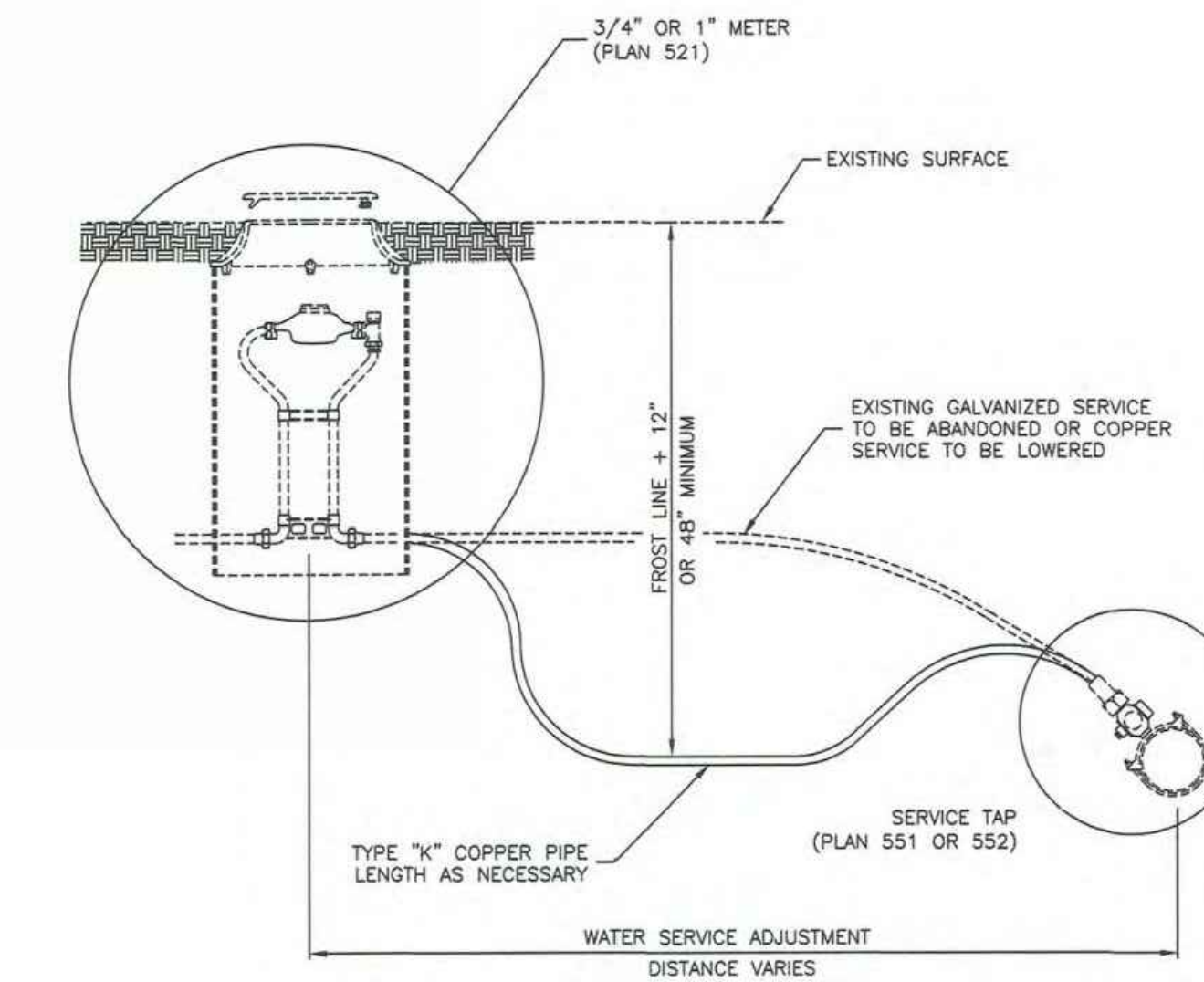
3/4" and 1" meter

Plan 521  
August 2001

**Water service line**

1. **GENERAL**
  - A. Before backfilling, secure inspection of installation by ENGINEER.
2. **PRODUCTS**
  - A. Fittings: Provide brass fittings and nipples. Do not use galvanized materials.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
3. **EXECUTION**
  - A. Backfill: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

541



Water service line

Plan 541  
August 2001

THE MEWS TOWNHOMES  
 720 SOUTH 300 EAST, SALT LAKE CITY  
 SITE UTILITY DETAILS

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 DIGS UTAH LLC  
 BOGART MCAVOY  
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C305

REVISIONS:

DATE SUBMITTED: 11/10/2022

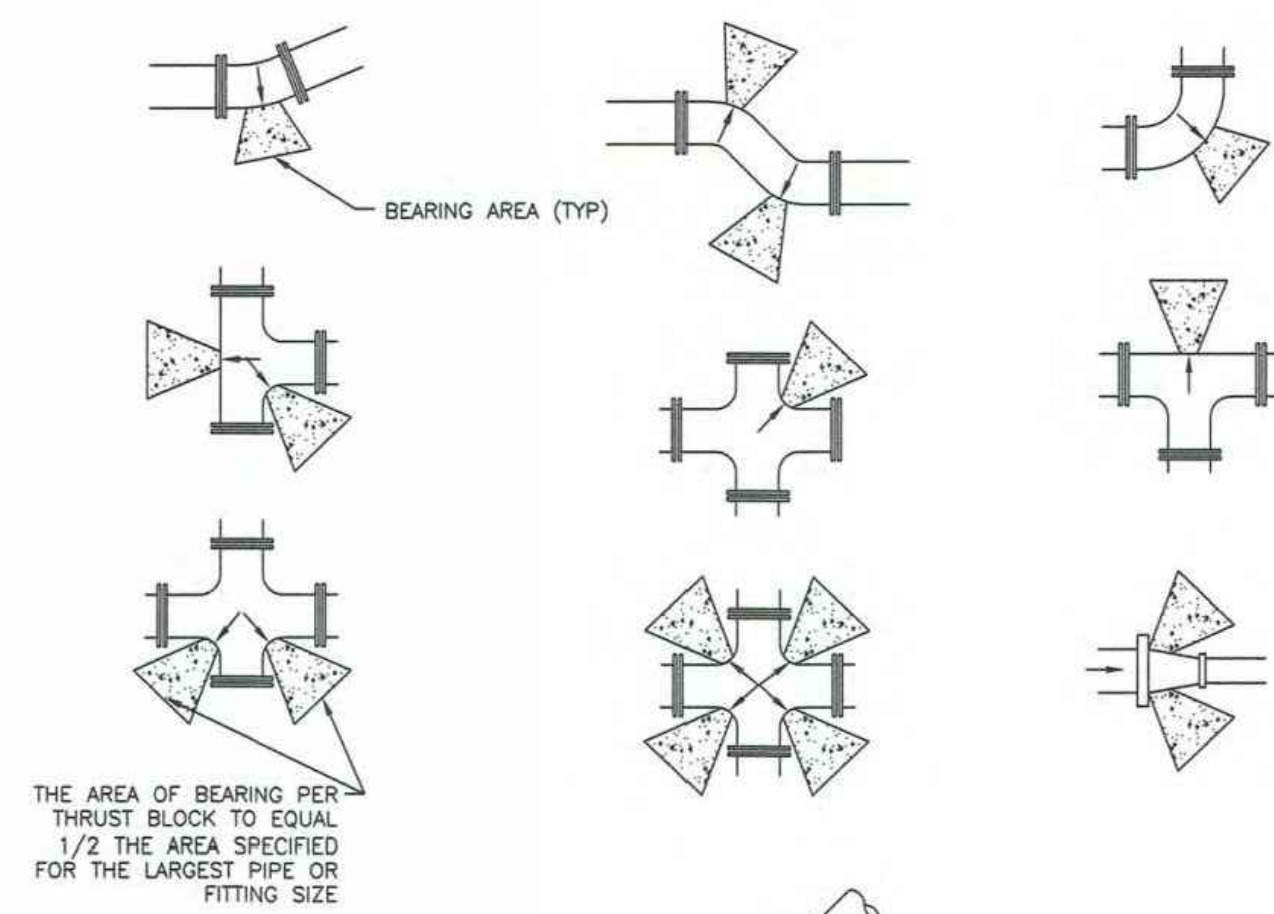
PREPARED FOR: BOGART MCAVOY



**Direct bearing thrust block**

1. **GENERAL**
  - A. Thrust design for pipe sizes or configurations not shown require special design.
  - B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
  - C. Restraint sizing is based upon a maximum operating pressure of 150 psi and a test pressure of 200 psi, and a minimum soil bearing strength of 2,000 psf. Operating pressures in excess of 150 psi or soils with less than 2,000 pound bearing strength will require special design.
  - D. Before backfilling around thrust block, secure inspection of installation by ENGINEER.
2. **PRODUCTS**
  - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - C. Thrust Blocks: Concrete Class 4000, APWA Section 03 30 04.
  - D. Grease: Non-oxide poly-FM.
3. **EXECUTION**
  - A. Pour concrete against undisturbed soil.
  - B. Pipe Joints: Do not cover with concrete. Leave completely accessible.
  - C. Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
  - D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
  - E. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

561



THE AREA OF BEARING PER THRUST BLOCK TO EQUAL 1/2 THE AREA SPECIFIED FOR THE LARGEST PIPE OR FITTING SIZE

MINIMUM BEARING AREA IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES, DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	2.5	2
8"	6.5	9.5	5	2.75	2.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	9
24"	53	74	41	21	12
30"	81	114	62	32	16



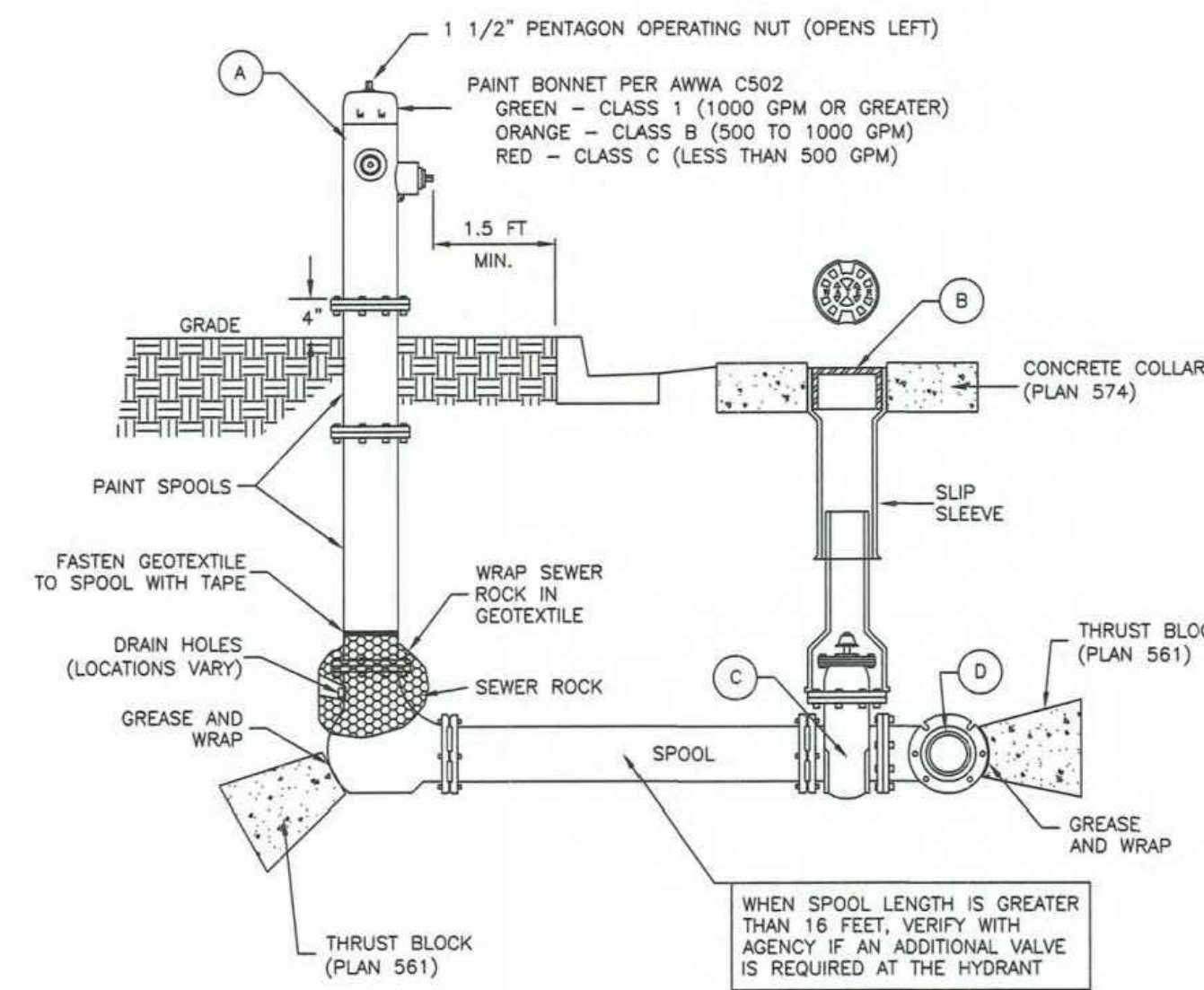
Direct bearing thrust block

Plan 561  
August 2010

**Fire hydrant with valve**

1. **GENERAL**
  - A. Before backfilling, secure inspection of installation by ENGINEER.
  - B. Additional requirements are specified in APWA Section 33 11 00.
2. **PRODUCTS**
  - A. Hydrant: Dry barrel, AWWA C502.
  - B. Thrust Blocks: Concrete Class 4000, APWA Section 03 30 04.
  - C. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
  - D. Backfill: APWA Section 31 05 13. Maximum particle size 2-inches.
    - 1) Sewer Rock: ASTM Size No. 3 (2" to 1") or larger.
    - 2) Other Type of Common Fill: CONTRACTOR'S choice.
  - E. Geotextile: Stabilization-separation fabric, APWA Section 31 05 19.
3. **EXECUTION**
  - A. Installation:
    - 1) Provide at least 1 cubic yard of sewer rock around drain hole at base of hydrant spool. Wrap geotextile around sewer rock and tape geotextile to hydrant spool to prevent silting of sewer rock.
    - 2) Paint fire hydrant to agency's fire hydrant paint code.
    - 3) Apply non-oxide grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
    - 4) Notify fire department as soon as hydrant is placed in service.
  - B. Thrust Blocks:
    - 1) Before pouring concrete, wrap pipe system with polyethylene sheet to prevent bonding of concrete to pipe system.
    - 2) Not required for flange or welded pipe systems.
  - C. Backfill: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

511



LEGEND		
No.	* ITEM	DESCRIPTION
(A)	FIRE HYDRANT	AWWA C502
(B)	VALVE BOX WITH LID	2-PIECE CAST IRON
(C)	GATE VALVE WITH 2" X 2" NUT	AWWA C509
(D)	TEE WITH 125 # FLANGE	AWWA C110

\* FURNISHED BY UTILITY AGENCY

**SECTION**



Fire hydrant with valve

Plan 511  
February 2011

DATE REVISIONS:

THE MEWS TOWNHOMES  
720 SOUTH 300 EAST, SALT LAKE CITY  
SITE UTILITY DETAILS  
DATE SUBMITTED: 11/10/2022

**OWNER**  
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PROCESS STUDIO  
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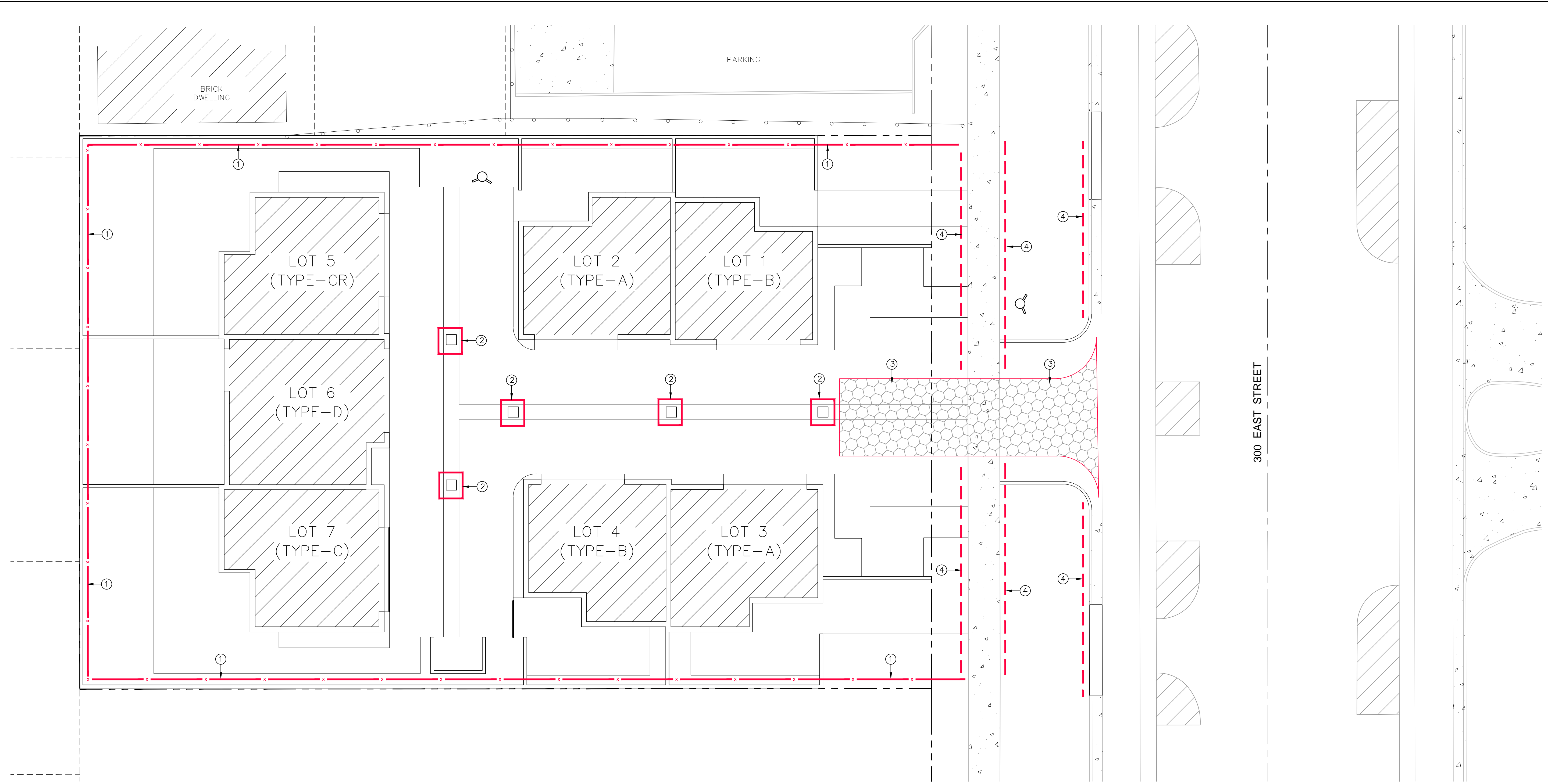
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**SURVEYOR**  
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C306





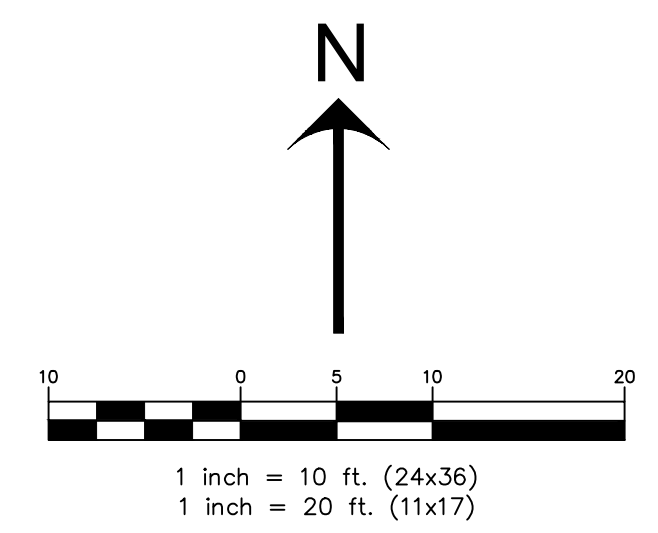
**GENERAL NOTES**

1. DUST MUST BE KEPT TO A MINIMUM. CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTACT SALT LAKE CITY PUBLIC WORKS TO LOCATE A NEARBY FIRE HYDRANT FOR USE AND TO INSTALL TEMPORARY METER.
2. THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING WEEKLY INSPECTIONS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY.
3. SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

**KEYED NOTES**

- ① INSTALL SILT FENCE PER APWA PLAN #122
- ② INSTALL INLET PROTECTION PER APWA PLAN #124
- ③ INSTALL STABILIZED ROADWAY ENTRANCE PER APWA PLAN #126
- ④ EXCAVATE AND MAINTAIN GRADE 4-6" BELOW EXISTING SIDEWALK AND EXISTING CURB DURING CONSTRUCTION TO CONTAIN SEDIMENT RUNOFF WITHIN SITE

300 EAST STREET



#	DATE	REVISIONS:

**THE MEWS TOWNHOMES**  
**720 SOUTH 300 EAST, SALT LAKE CITY**  
**EROSION CONTROL PLAN**

DATE SUBMITTED: 11/10/2022  
 PREPARED FOR: BOGART MCAVOY

**OWNER**  
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**C401**

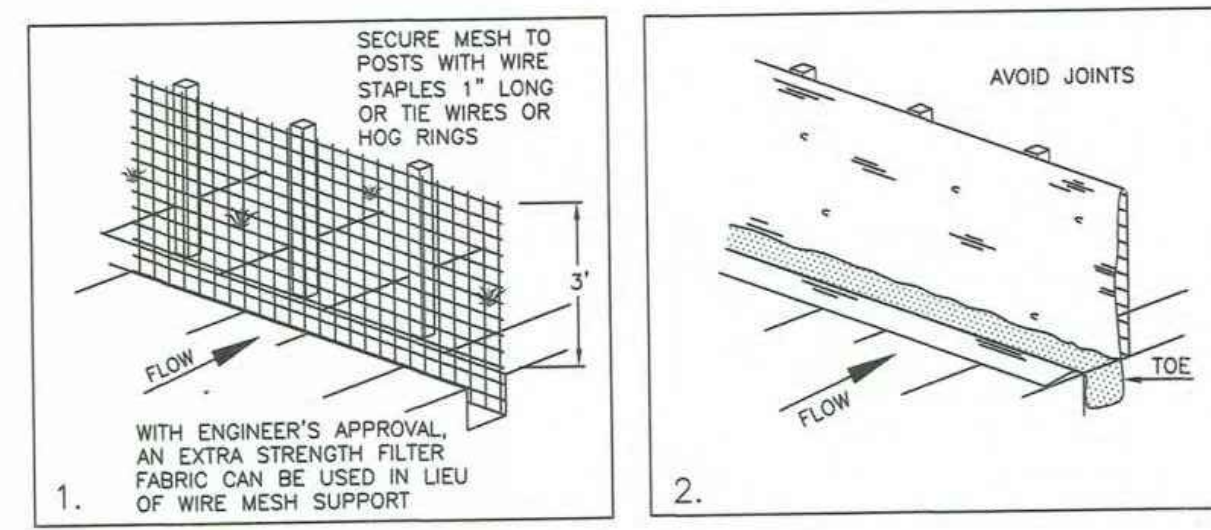


**Silt fence**

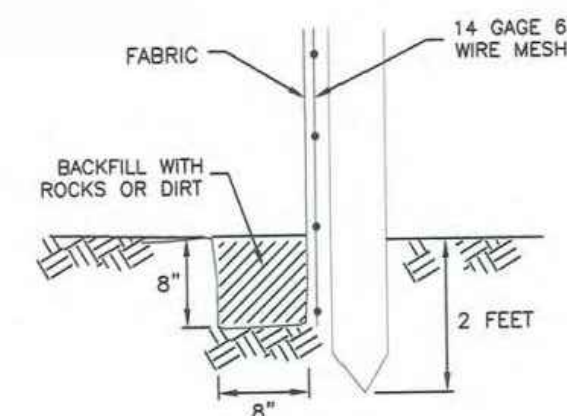
1. **GENERAL**
  - A. Description. A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched.
  - B. Application. To intercept sediment from disturbed areas of limited extent.
  - C. Perimeter Control: Place barrier at down gradient limits of disturbance.
  - D. Sediment Barrier: Place barrier at toe of slope or soil stockpile.
  - E. Protection of Existing Waterways: Place barrier at top of stream bank.
  - F. Inlet Protection.
2. **PRODUCTS**
  - A. Fabric. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester, or polyethylene yarn. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0 deg F to 120 deg F.
  - B. Burlap. 10 ounces per square yard of fabric.
  - C. Posts. Either 2" x 4" diameter wood, or 1.33 pounds per linear foot steel with a minimum length of 5 feet, or steel posts with projections for fastening wire to them.
3. **EXECUTION**
  - A. Cut the fabric on site to desired width, unroll, and drape over the barrier. Secure the fabric toe with rocks or dirt and secure the fabric to the mesh with twin, staples or similar devices.
  - B. When attaching two silt fences together, place the end post of the second fence inside the end post of the first fence. Rotate both posts at least 180 degrees on a clockwise direction to create a tight seal with the filter fabric. Drive both posts into the ground and bury the flap.
  - C. When used to control sediments from a steep slope, place silt fences away from the toe of the slope for increased holding capacity.
  - D. Maintenance.
    - 1) Inspect immediately after each rainfall and at least daily during prolonged rainfall.
    - 2) Should the fabric on a silt fence or filter barrier decompose or become ineffective before the end of the expected usable life and the barrier still be necessary, replace the fabric promptly.
    - 3) Remove sediment deposits after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.
    - 4) Re-anchor fence as necessary to prevent shortcutting.
    - 5) Inspect for runoff bypassing ends of barriers or undercutting barriers.

122

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



**INSTALLATION SEQUENCE**



**TOE DETAIL**



**Silt fence**

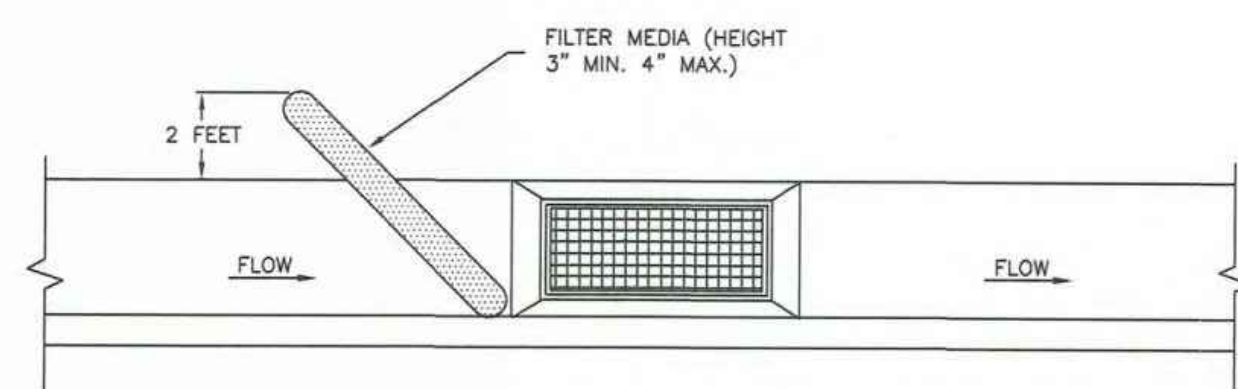
Plan **122**  
February 2006

**Inlet protection - gravel sock**

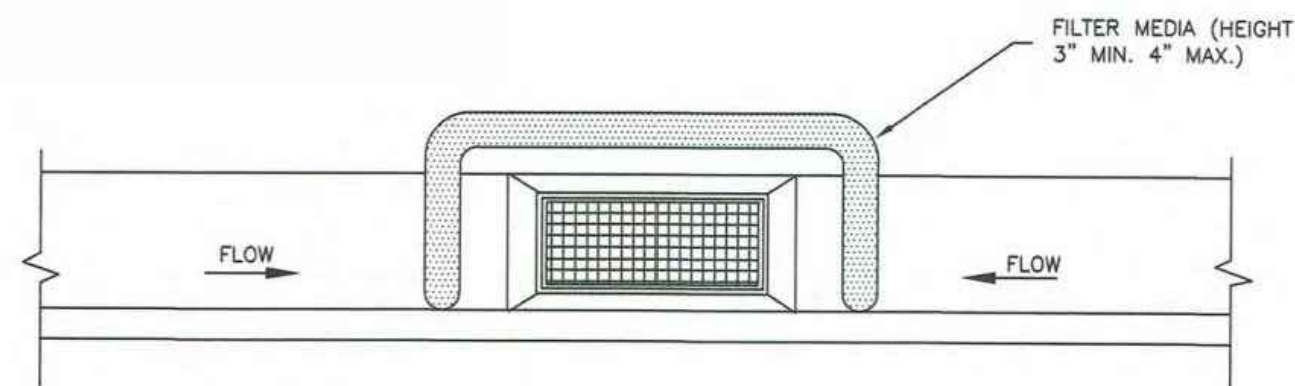
1. **GENERAL**
  - A. Description. Placement of gravel sock on grade.
    - 1) Upstream of, or in front of storm drain inlets to filter or pond water runoff.
    - 2) At inlets in paved or unpaved areas where up gradient area is to be disturbed by construction activities.
2. **PRODUCTS** (Not used)
3. **EXECUTION**
  - A. On-grade inlet protection:
    - 1) Provide on-grade inlet protection when completely blocking a storm drain inlet box would result in forcing water further downstream would cause flooding or other undesirable results.
    - 2) Prepare filter media (gravel sock, straw waddle, or other approved media) in accordance with manufacturer's recommendations.
    - 3) Install filter media just upstream of the inlet box.
    - 4) Filter media shall butt tightly against the face of the curb and angle at approximately a 45-degree angle away from the curb to trap runoff between the media and the curb.
    - 5) Excessive flows will flow either over or around the filter media and into the inlet box.
    - 6) Expect ponding behind the filter media.
  - B. Drop inlet protection:
    - 1) Use drop inlet protection at low points in the curb and when diverting flows further downstream will not cause undesirable results.
    - 2) Prepare filter media (gravel sock, straw waddle, or other approved media) in accordance with manufacturer's recommendations.
    - 3) Install filter media around the entire perimeter of the inlet grate.
    - 4) Filter media shall butt tightly against the face of the curb on both sides of the inlet grate.
    - 5) Excessive flows will either flow around the media or over the top and into the inlet box.
    - 6) Expect ponding around the inlet box.
  - C. Maintenance
    - 1) Inspect inlet protection after every large storm event and at a minimum of once monthly.
    - 2) Remove sediment accumulated when it reaches 2-inches in depth.
    - 3) Replace filter medium when damage has occurred or when medium is no longer functioning as intended.

124.1

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



**ON-GRADE INLET PROTECTION DETAIL**



**SUMP INLET PROTECTION DETAIL**



**Inlet protection - gravel sock**

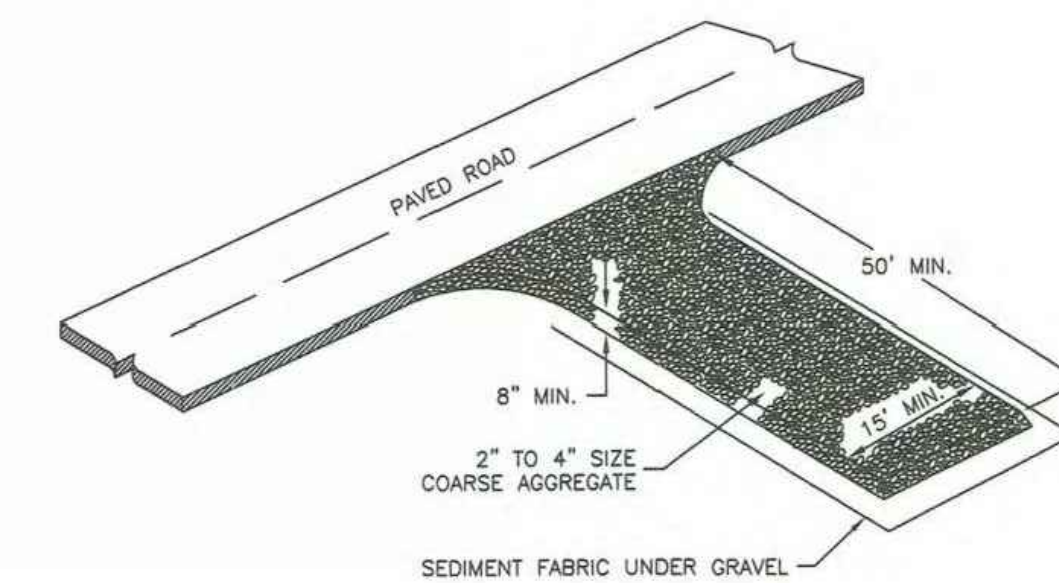
Plan **124.1**  
September 2006

**Stabilized roadway entrance**

1. **GENERAL**
  - A. Description. A temporary stabilized pad of gravel for controlling equipment and construction vehicle access to the site.
  - B. Application. At any site where vehicles and equipment enter the public right of way.
2. **PRODUCT** (Not used)
3. **EXECUTION**
  - A. Clear and grub area and grade to provide maximum slope of 1 percent away from paved roadway.
  - B. Compact subgrade.
  - C. Place filter fabric under stone if desired (recommended for entrance area that remains more than 3 months).
  - D. Maintenance.
    - 1) Prevent tracking or flow of mud into the public right-of-way.
    - 2) Periodic top dressing with 2-inch stone may be required, as conditions demand, and repair any structures used to trap sediments.
    - 3) Inspect daily for loss of gravel or sediment buildup.
    - 4) Inspect adjacent area for sediment deposit and install additional controls as necessary.
    - 5) Expand stabilized area as required to accommodate activities.

126

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



**Stabilized roadway entrance**

Plan **126**  
February 2006

**THE MEWS TOWNHOMES**  
**720 SOUTH 300 EAST, SALT LAKE CITY**  
**EROSION CONTROL DETAILS**

DATE SUBMITTED: 11/10/2022

PREPARED FOR: BOGART MCAVOY

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**C402**