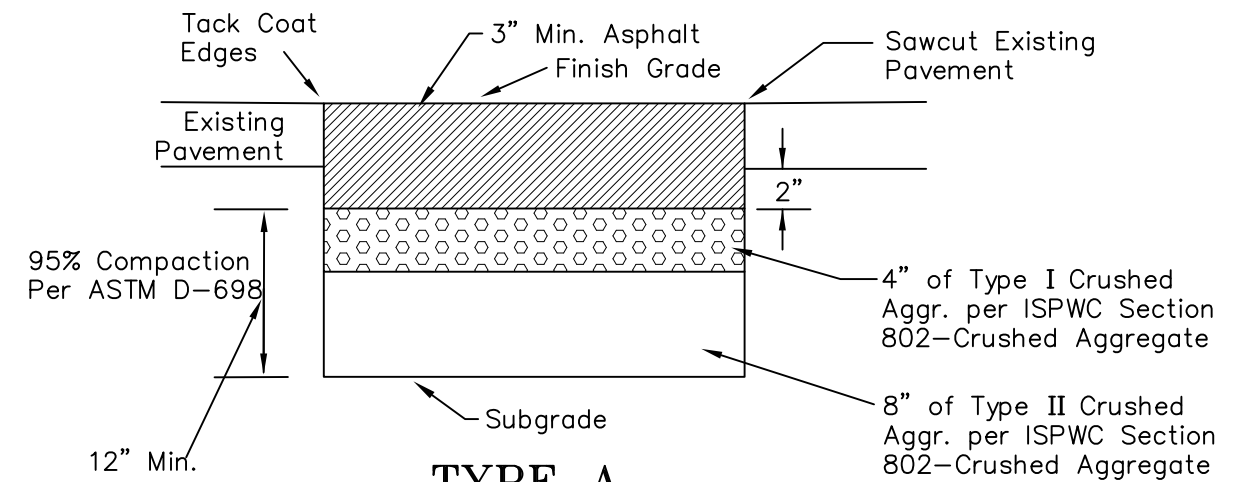


**EXISTING STREET
TYPICAL TRENCH SECTION**

N.T.S.



**TYPE A
SURFACE REPAIR AND BASE**

N.T.S.

NOTES

1. Type I Pipe Bedding material shall meet the requirements of the current edition of the ISPWC Standards—Section 305—Pipe Bedding.
2. Type II Pipe Bedding material shall meet the requirements of the current edition of the ISPWC Standards—Section 305—Pipe Bedding.
3. Where 25% or more of any portion of the surface area of any pavement has been damaged within the project limits, full width restoration shall be required. Any strip of remaining pavement less than 2 feet in width along curb and gutter or pavement edge shall be removed and replaced.
4. Native materials may be used for backfill unless, in the sole opinion of the City Engineer, the native material is found to be unstable. Then 8 inch minus aggregate, which meets the requirements of the current edition of the ISPWC Standards—Section 801—Uncrushed Aggregate or crushed aggregate, which meets the requirements of the current edition of the ISPWC Standards—Section 802—Crushed Aggregate, will be required as backfill.
5. The completed patch shall not deviate from existing surface more than .02 ft/10 ft in any direction.
6. The completed patch shall not pond water in excess of .02 feet in depth.
7. Surface repair in gravel shoulder areas within 3 feet of pavement edge shall be 3 inch depth of Type I crushed aggregate per the current edition of the ISPWC Standards—Section 802—Crushed Aggregate.
8. Contractor shall be responsible for maintenance of street repair for one year after installation. PUC regulated utilities shall be responsible for a period of three years.
9. All utility crossings, including but not limited to power, telephone, cable TV, gas, and water services, which cross existing paved roads shall be constructed by horizontal boring. Open cuts across paved roadways will only be allowed after a minimum of three failed attempts with approved boring tools. When utility mains are located under existing pavement, open cuts will be allowed and boring is not required. If in the judgment of the City Engineer, boring may be detrimental to the health, safety, or welfare of the public, boring will not be required and trenching will be allowed. A six foot trench, two feet deeper than the proposed utility shall be excavated adjacent to the edge of pavement for evaluation of soil conditions by the City Engineer to determine if boring shall be attempted or if trenching will be allowed.
10. All trenches shall be repaved within 72 hours of starting the work unless prior approval to delay repaving has been provided by the City Engineer.
11. Concrete Slurry Mix Design

Coarse Aggregate (3/8" minus)	2,600 lbs
Sand	800 lbs
Cement	94 lbs (max)
Water	11 gals (max)

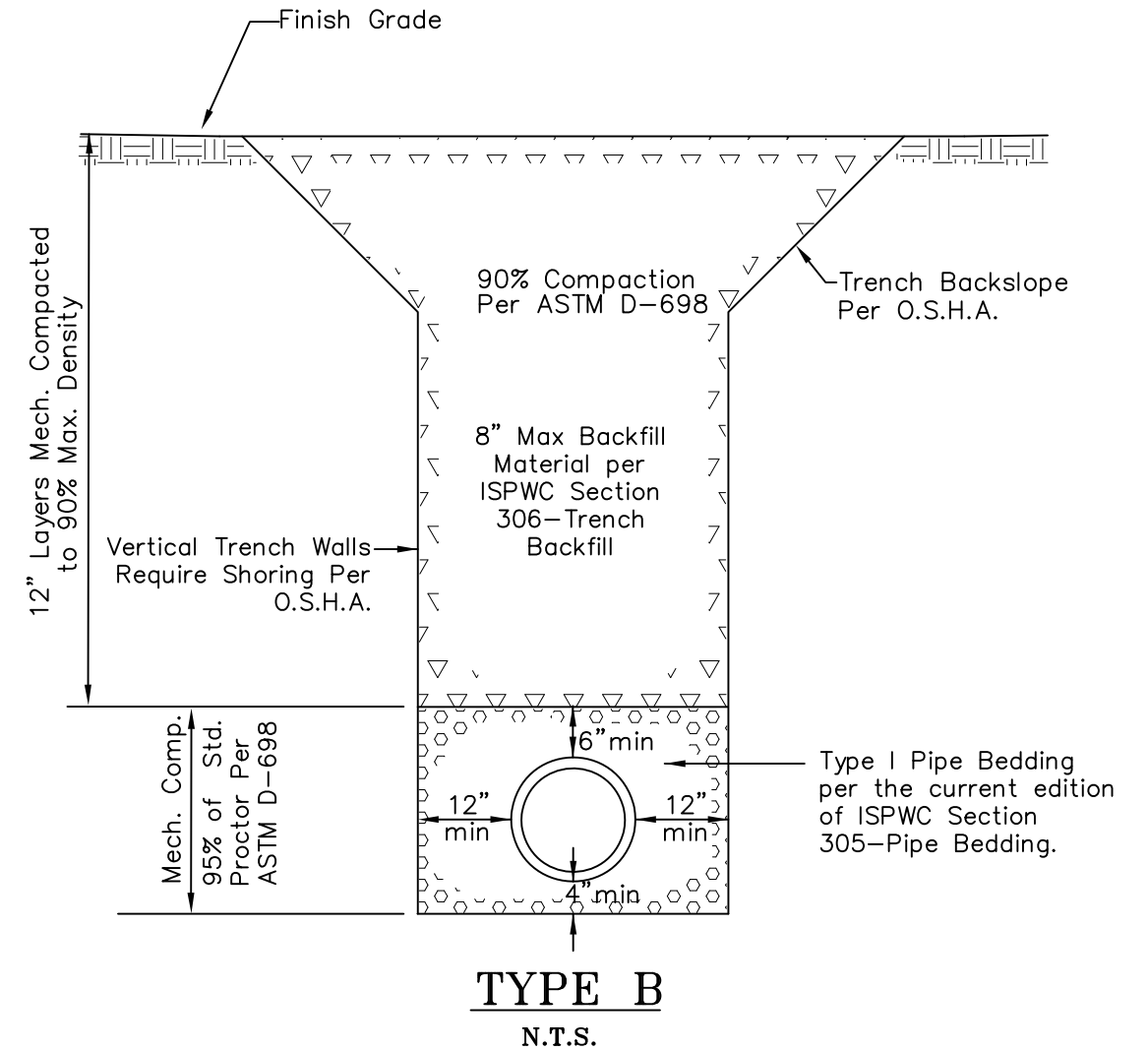
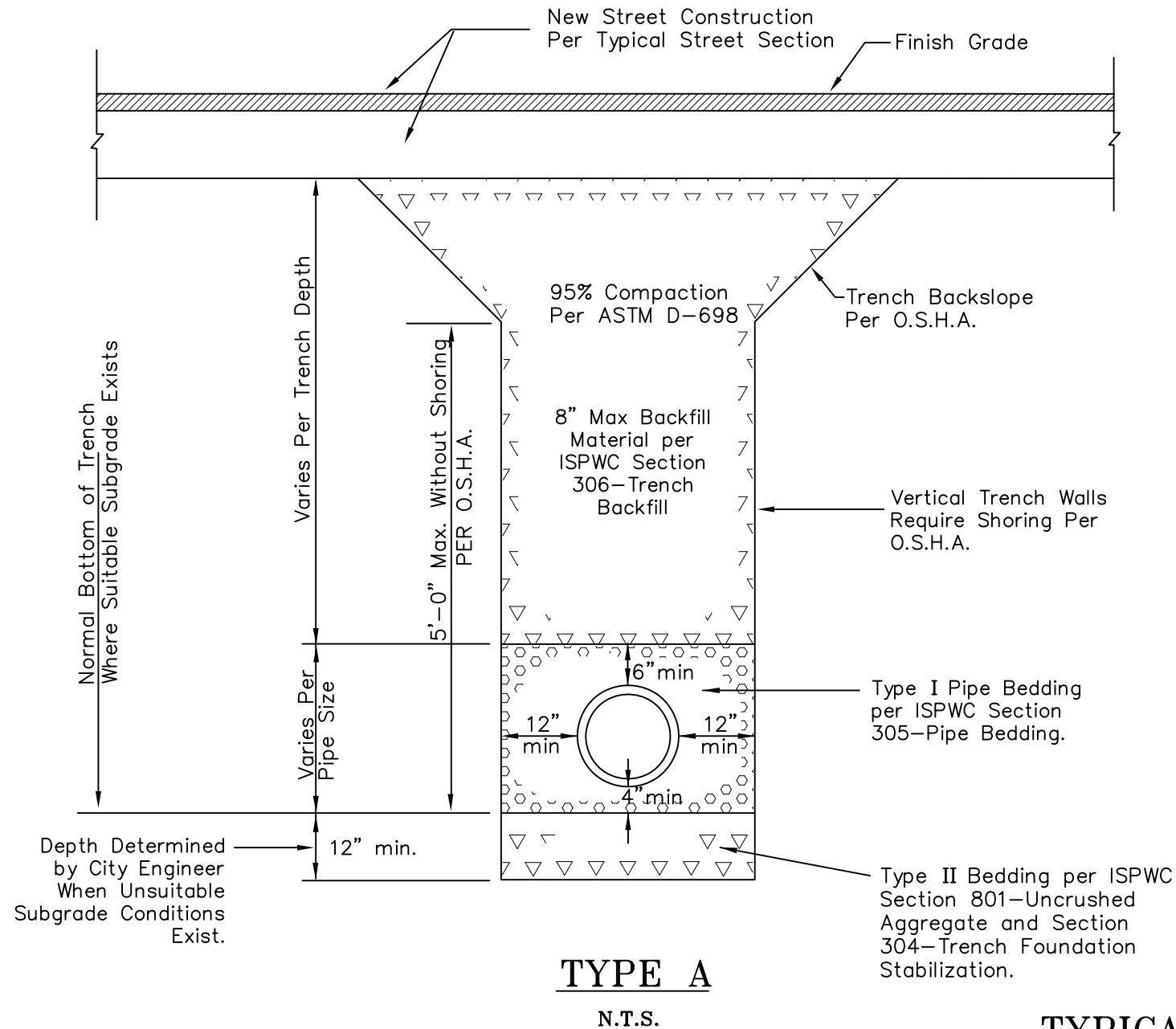
REVISIONS

**2012 CITY OF HAILEY
STANDARD DRAWINGS**

**TRENCH AND SURFACE
REPAIR**

18.14.010.A.1

DRAWING NO.



TYPICAL TRENCH SECTIONS

NOTES

1. Type I Pipe Bedding material shall meet the requirements of the current edition of the ISPWC Standards—Section 305—Pipe Bedding.
2. Type II Pipe Bedding material shall meet the requirements of the current edition of the ISPWC Standards—Section 305—Pipe Bedding.
3. Native materials may be used for backfill unless, in the sole opinion of the City Engineer, the native material is found to be unsuitable; then either 8-inch minus uncrushed aggregate per the current edition of the ISPWC Standards—Section 801—Uncrushed Aggregate or Type I or II crushed aggregate per the current edition of the ISPWC Standards—Section 802—Crushed Aggregate will be required as backfill.
4. All work in public traffic ways is subject to approval by the City Engineer. He shall be notified one day before any excavation is started. No backfill shall be placed until the backfill material has been approved by the City Engineer.
5. Type A Trench Section shall be used when crossing a public or private road, street or driveway section. A road, street or driveway section is defined as the area under an existing asphalt or gravel surface or curb and sidewalk, plus (4') four feet beyond each edge.
6. Type B Trench Section shall be used outside of any Type A, where new streets are not planned.
7. Rock shall be excavated to at least standard trench width per the current edition of the ISPWC Standards—Section 302—Rock Excavation.

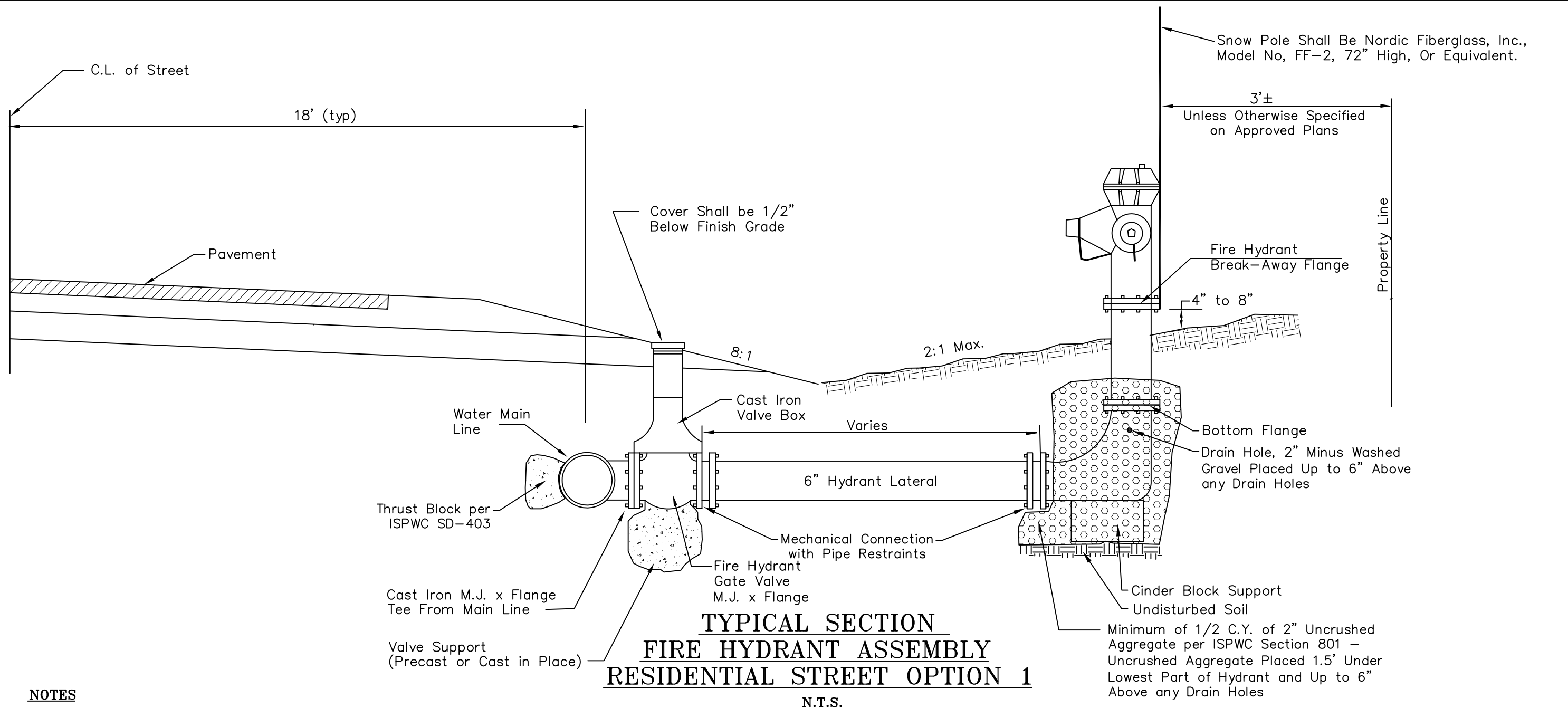
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**2012 CITY OF HAILEY
STANDARD DRAWINGS**

**NEW DEVELOPMENT
TYPICAL TRENCH SECTION**

18.14.010.A.2

DRAWING NO.



**TYPICAL SECTION
FIRE HYDRANT ASSEMBLY
RESIDENTIAL STREET OPTION 1**
N.T.S.

NOTES

1. Hydrants shall have a 6' foot bury.
2. Hydrants shall be Viking Model WB-67U-250 or Mueller Super Centurion 250 HS and conform to the following:
 - 2 ea.. 2-1/2" NST threaded nozzles
 - 1 ea.. 4-1/2" NST threaded nozzles
 - Dry Barrel type 6" barrel
 - Red in color
 - Traffic "breakaway" design
 - 250 PSI rated
 - UL Listed
 - Main valve size 5-1/4"
3. Mechanical Restraints shall be used. Restraints shall be Romac Industries RomaGrip or approved equivalent. No lug or set screw type restraints are to be used on PVC pipe.
4. City shall approve location and elevation of all Fire Hydrants. Fire Hydrants shall be located at street intersections and at a minimum spacing of 500 feet in residential zones and 450 feet in business and industrial zones. No obstructions shall be placed within 3 feet of the back and 15 feet of the sides and front of Fire Hydrants.
5. Auxiliary Gate Valve shall meet AWWA C509 (Total rubber encapsulated, resilient seat, waterous series or approved equal).
6. Valve Box shall be Tyler 664A or approved equal.
7. Hydrant break away flange elevation equal to street centerline or 4" to 8" above finished grade as approved.
8. Fire hydrant assemblies located on the opposite side of the roadway from the watermain shall have 2" Dow Board installed over the pipeline leading to the hydrant. The Dow Board shall extend from auxiliary gate valve to the hydrant.

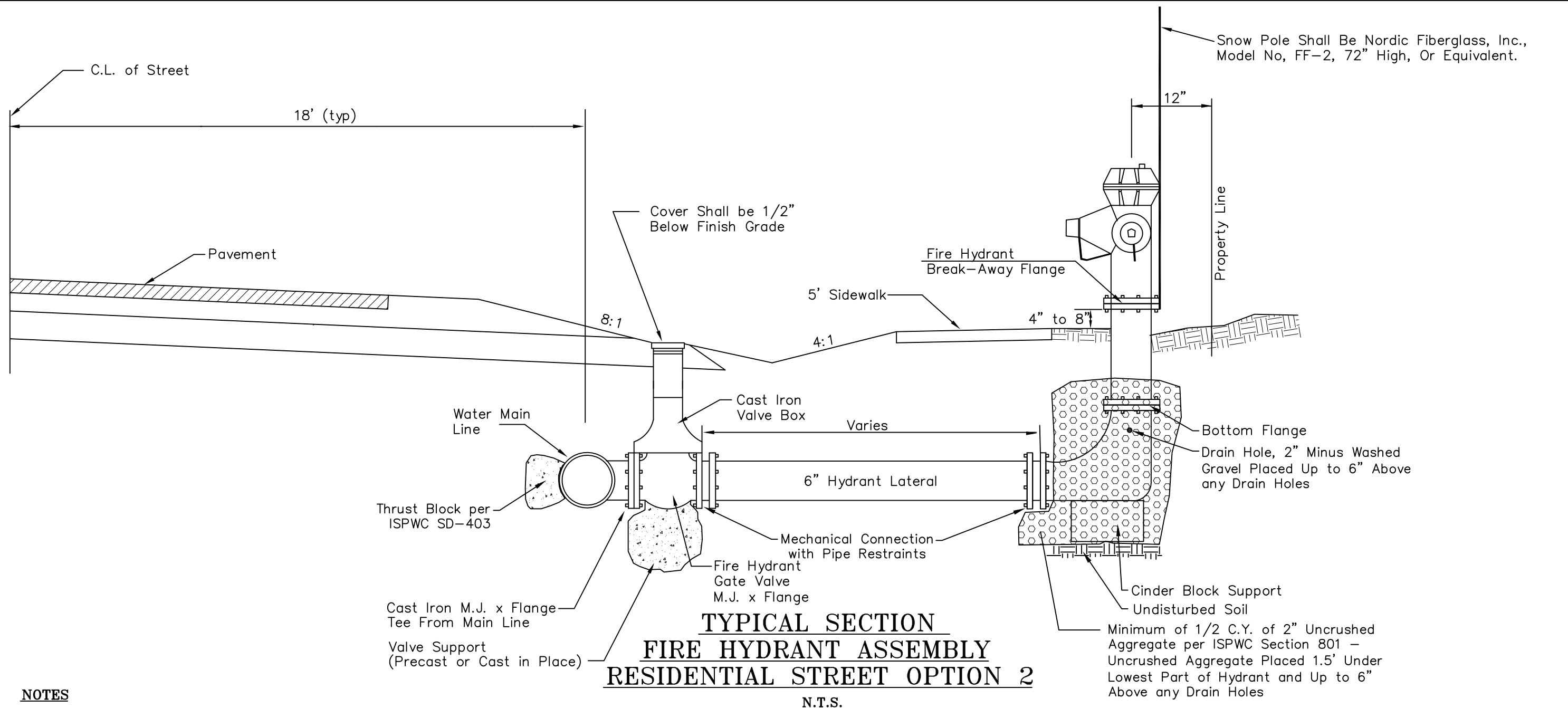
HYDRANT VEHICULAR PROTECTION

Fire hydrants which may be exposed to vehicular damage or obstruction shall have an approved array of bollards or guard post installed to protect them from damage and maintain the minimum distance required for proper operation.

When they are installed, they shall be:

- Constructed of steel not less than (4) inches in diameter and concrete filled.
- Spaced not more than four (4) feet between posts on center.
- Set not less than three (3) feet deep in a concrete footing not less than (15) inches in diameter.
- Set with the top of the posts not less than (3) feet above the ground.
- The post shall be painted bright red, reflective markings are recommended.
- Located at least three feet from any portion of the hydrant and located so as not to create an obstruction to its use.

REVISIONS	2012 CITY OF HAILEY STANDARD DRAWINGS	FIRE HYDRANT DETAIL RESIDENTIAL STREET OPTION 1	18.14.010.B.1
			DRAWING NO.



**TYPICAL SECTION
FIRE HYDRANT ASSEMBLY
RESIDENTIAL STREET OPTION 2**
N.T.S.

NOTES

1. Hydrants shall have a 6' foot bury.
2. Hydrants shall be Viking Model WB-67U-250 or Mueller Super Centurion 250 HS and conform to the following:
 - 2 ea.. 2-1/2" NST threaded nozzles
 - 1 ea.. 4-1/2" NST threaded nozzles
 - Dry Barrel type 6" barrel
 - Red in color
 - Traffic "breakaway" design
 - 250 PSI rated
 - UL Listed
 - Main valve size 5-1/4"
3. Mechanical Restraints shall be used. Restraints shall be Romac Industries RomaGrip or approved equivalent. No lug or set screw type restraints are to be used on PVC pipe.
4. City shall approve location and elevation of all Fire Hydrants. Fire Hydrants shall be located at street intersections and at a minimum spacing of 500 feet in residential zones and 450 feet in business and industrial zones. No obstructions shall be placed within 3 feet of the back and 15 feet of the sides and front of Fire Hydrants.
5. Auxiliary Gate Valve shall meet AWWA C509 (Total rubber encapsulated, resilient seat, waterous series or approved equal).
6. Valve Box shall be Tyler 664A or approved equal.
7. Hydrant break away flange elevation equal to street centerline or 4" to 8" above finished grade as approved.
8. Fire hydrant assemblies located on the opposite side of the roadway from the watermain shall have 2" Dow Board installed over the pipeline leading to the hydrant. The Dow Board shall extend from auxiliary gate valve to the hydrant.

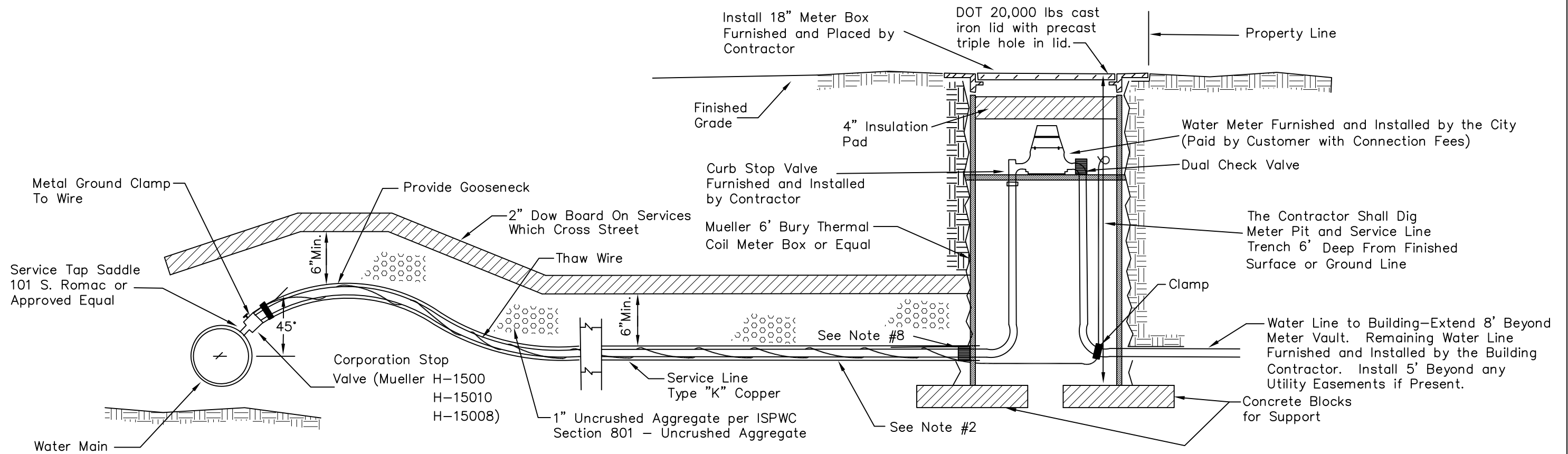
HYDRANT VEHICULAR PROTECTION

Fire hydrants which may be exposed to vehicular damage or obstruction shall have an approved array of bollards or guard post installed to protect them from damage and maintain the minimum distance required for proper operation.

When they are installed, they shall be:

- Constructed of steel not less than (4) inches in diameter and concrete filled.
- Spaced not more than four (4) feet between posts on center.
- Set not less than three (3) feet deep in a concrete footing not less than (15) inches in diameter.
- Set with the top of the posts not less than (3) feet above the ground.
- The post shall be painted bright red, reflective markings are recommended.
- Located at least three feet from any portion of the hydrant and located so as not to create an obstruction to its use.

REVISIONS	2012 CITY OF HAILEY STANDARD DRAWINGS	FIRE HYDRANT DETAIL RESIDENTIAL STREET OPTION 2	18.14.010.B.2
			DRAWING NO.



TYPICAL WATER SERVICE AND METER CONNECTION

N.T.S.

NOTES

1. Water Services shall be installed in accordance with the current edition of the ISPWC—Section 404—Water Service Line and Meters.
2. Water Service Line shall have a 6' min. bury depth.
3. Service Line shall be 3/4" diameter copper unless otherwise specified. Copper service pipe shall be encased with plastic pipe sleeving material from corporation stop to vault with both ends wrapped with PASCO 10ml PVC #9052 pipe tape.
4. CAUTION: OPEN CORPORATION VALVE BEFORE BACKFILL.
5. An owner constructing a new public water system in a subdivision or development shall construct a water tap and service for each potential user and extend it to the property line. Water services shall be marked with a blue painted metal fence post.
6. All copper service shall be wrapped with #6 gauge single strand copper wire thermally insulated wrap every 5'.
7. Water service lines which cross the street shall be insulated with 2" thick by 2' wide Dow Board. Insulation shall be installed from the water main to the vault.
8. Water service lines shall be bedded with Type I Pipe Bedding per the current edition of ISPWC Section 305—Pipe Bedding.
9. Connection to the meter box or curb stop shall be; Mueller 110 Compression for 3/4" Copper 507831, 581949; Mueller H15450 CTS Flange Nut x F.I.P.; or C21-33.
10. No service or irrigation connections within 2 feet of meter vault. Stagger multiple connections made on the pipe along the circumference and separate by a minimum of 2 feet.
11. Materials used shall be compliant with NSF 61.
12. All services shall conform to the vertical and horizontal separation requirements per DEQ.

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2012 CITY OF HAILEY
STANDARD DRAWINGS

RESIDENTIAL
WATER SERVICE CONNECTION

18.14.010.B.3

DRAWING NO.

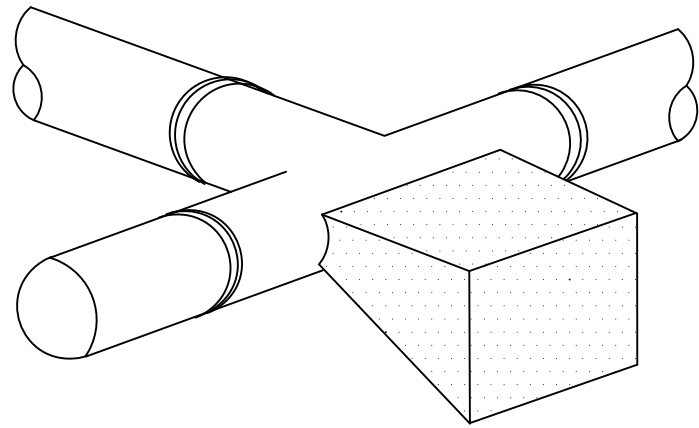
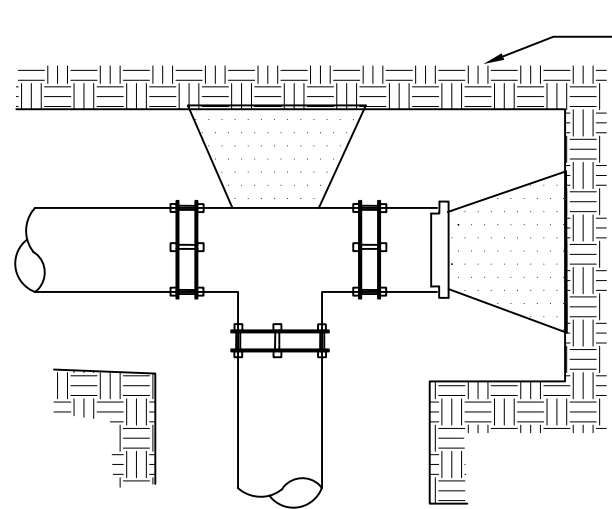


TABLE A

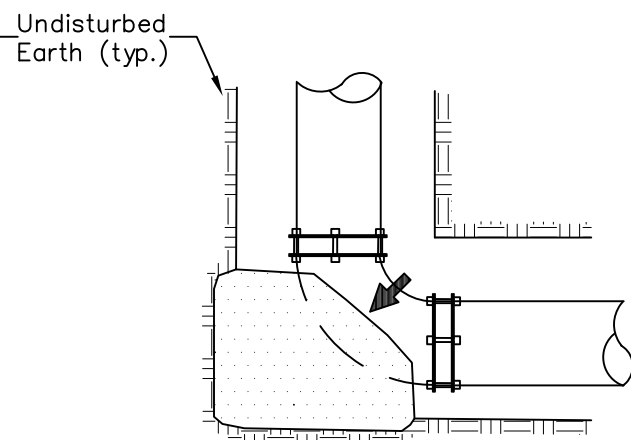
MINIMUM THRUST BLOCK BEARING AREAS (SQ. FT.)					
FITTING SIZES	TEES & PLUGS	90° BEND	45° BEND & WYES	REDUCERS & 22-1/2° BEND	11 1/4° BEND
4"	1.4	2.0	1.1	0.6	0.4
6"	2.8	4.0	2.2	1.6	1.0
8"	5.0	7.0	3.7	2.0	1.0
10"	8.0	10.3	5.6	2.9	1.0
12"	10.3	14.6	8.0	4.0	1.5

NOTES

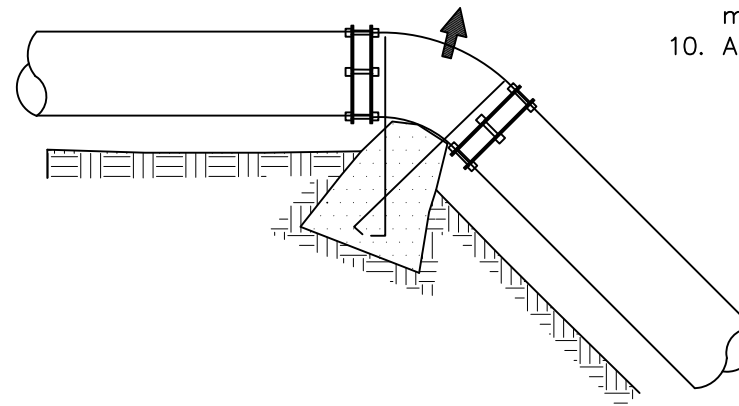
1. The concrete for thrust blocks shall be a 5 bag mix with 2500 P.S.I. or greater strength per the current edition of the ISPWC Standards—Section 401—Water Pipe and Fittings.
2. All thrust blocks shall be constructed per the current edition of ISPWC Standard drawing No. 403.
3. All water lines shall have a minimum cover of not less than 6 feet.
4. All water lines shall be ductile iron Class 51 or AWWA P.V.C. (C-900).
5. No trench backfill shall be placed until the pipe and fittings are inspected by the Water Department.
6. Thrust blocks may be formed with plywood to prevent concrete from covering flange bolts or drain holes (typ.).
7. Table A is based on 150 P.S.I. main pressure 2000 P.S.F. Soil Bearing Pressure.
8. Wrap all fittings with polyethylene prior to placing concrete thrust blocks.
9. Thrust block shall bear against undisturbed earth with a minimum bearing area that conforms to Table A.
10. All fittings shall be cast iron.



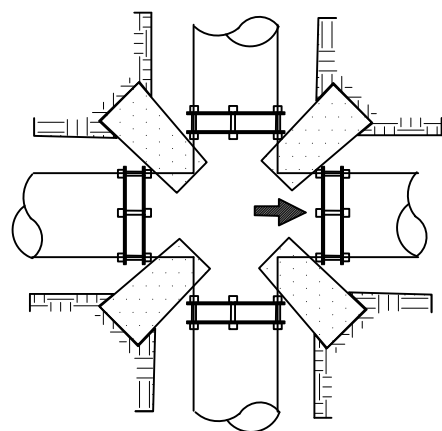
TEE (Plugged)



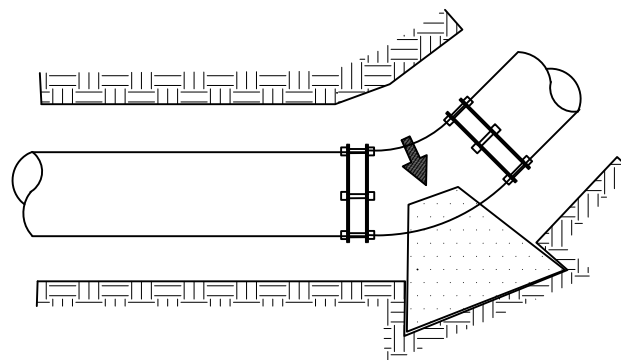
90° ELBOW



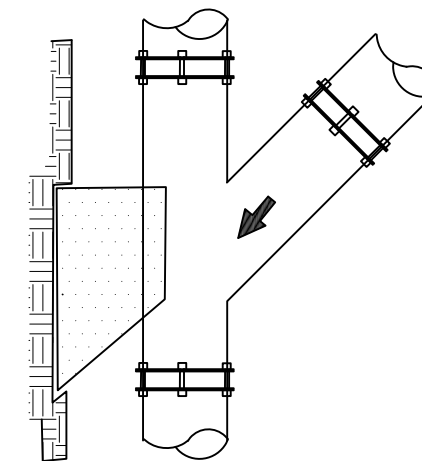
VERTICAL 45° ELBOW



CROSS



11-1/4°, 22-1/2° OR 45°



"Y"

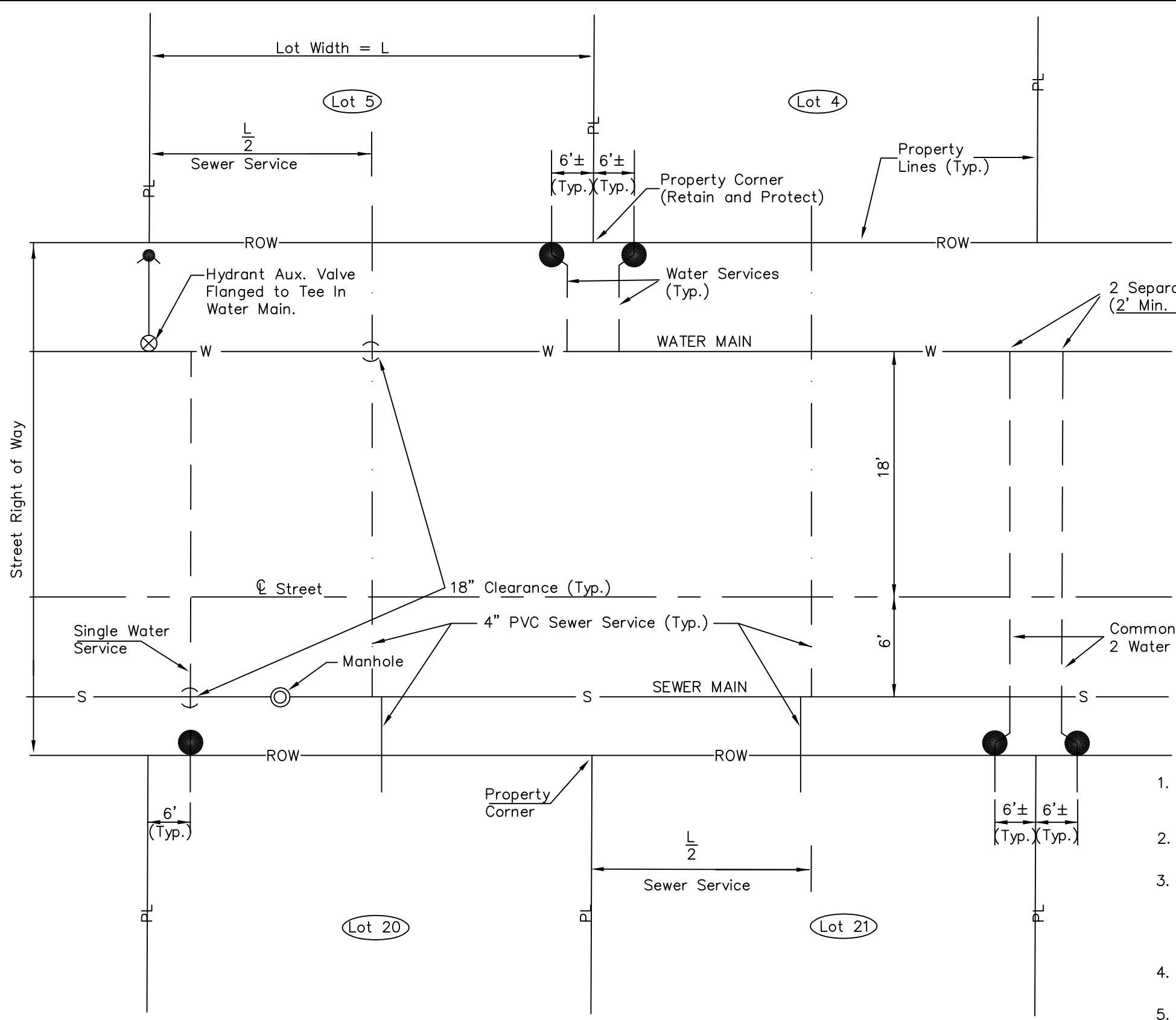
REVISIONS

2012 CITY OF HAILEY
STANDARD DRAWINGS

THRUST BLOCKING FOR
WATER MAIN FITTINGS

18.14.010.B.4

DRAWING NO.



PLAN VIEW
TYPICAL WATER – SEWER LAYOUT

N.T.S.

NOTES

1. This plan is the desired typical layout for a new development. New Water and Sewer shall conform to this general conceptual layout except as otherwise specified and approved by the City.
2. The Owner/Developer shall show all Water and Sewer service locations on design plans as approved by City.
3. When Water and Sewer lines or services cross refer to the current edition of ISPWC Standard Drawing 407, IDAPA 58.01.08.542.07.a and IDAPA 58.01.08.542.07.b which address the requirements for separation distances between potable water lines (including mains and service lines) with non-potable lines.
4. Power Transformer Boxes and Telephone Risers are to be located near Lot Corners not common with water services.
5. All property corner monuments shall be retained and protected. Replacement of disturbed property corners shall be at the contractors expense.
6. Water Meters shall be located a minimum of 6 Feet from Fire Hydrants.
7. Extend Sewer and Water Services into property or beyond any utility easements if present.

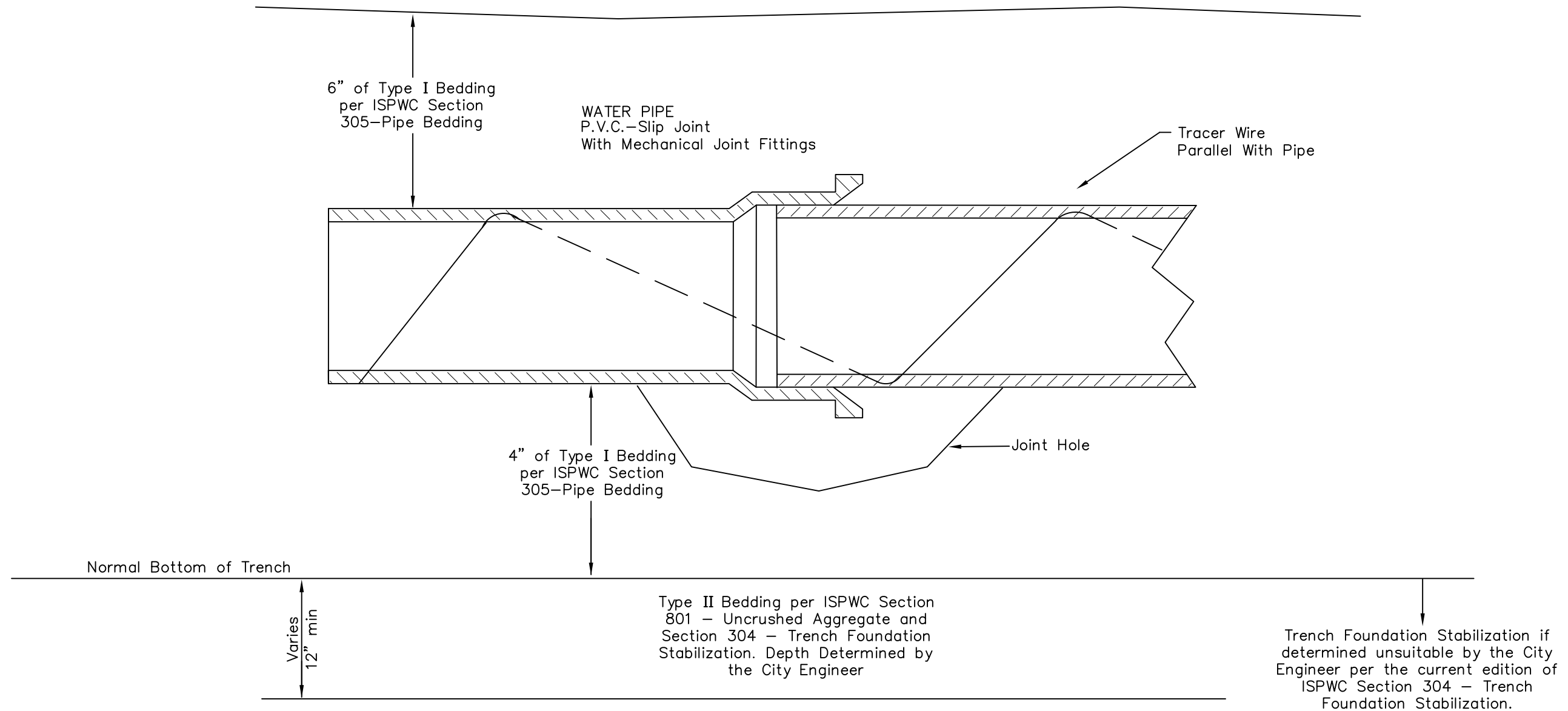
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2012 CITY OF HAILEY
 STANDARD DRAWINGS

TYPICAL WATER AND SEWER
 LAYOUT

18.14.010.B.5

DRAWING NO.



WATER PIPE LAYOUT SECTION

N.T.S.

NOTES

1. Trenching shall be in accordance with the current edition of ISPWC Division 300-Trenching.
2. A No. 12 AWG copper with insulation tracer wire will be wrapped around all PVC pipe at a minimum of 10 foot intervals for the full length of the pipe. Each run shall be brought to the surface inside the Valve Boxes for the gate valves. Ten linear feet of loose looped wire shall be left coiled in the valve box. All runs shall be electrically continuous between valves.
3. All water pipe shall have 6 feet of minimum cover.
4. When Water and Sewer lines or services cross refer to the current edition of ISPWC Standard Drawing 407, IDAPA 58.01.08.542.07.a and IDAPA 58.01.08.542.07.b which address the requirements for separation distances between potable water lines (including mains and service lines) with non-potable lines.
5. Install 3" wide blue bury warning tape 2" above bedding the length of the pipe.

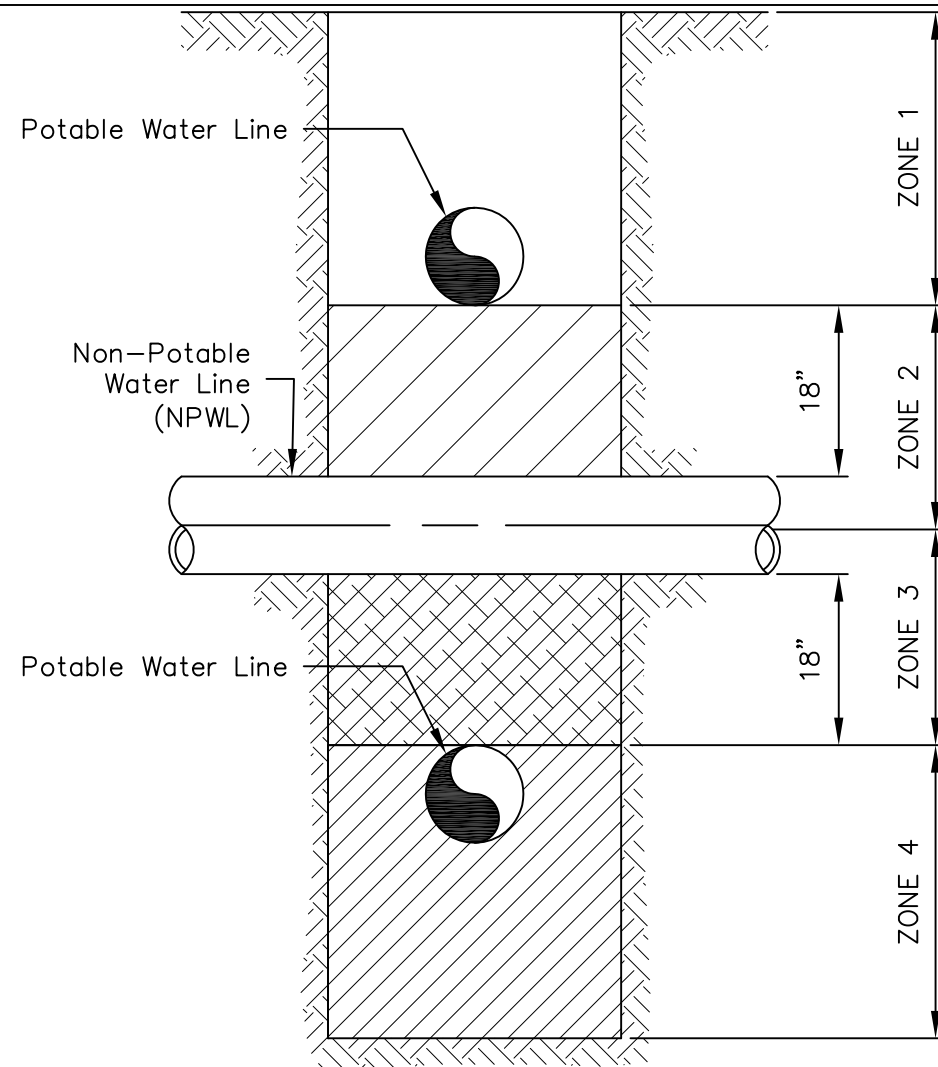
REVISIONS

2012 CITY OF HAILEY
STANDARD DRAWINGS

WATER PIPE LAYING

18.14.010.B.6

DRAWING NO.



VERTICAL SEPARATION REQUIREMENTS

ZONE 1: A) Potable Water and Non-Potable Mains and Service Lines must be separated by at least 18 inches.

and B) One full, uncut length of Non-Potable pipe must be centered over the crossing so that the joints are as far as possible from the crossing.

ZONE 2: Potable line, 18" over top of Non-Potable line.

A) One full, uncut length of Non-Potable Water pipe must be centered on the crossing so that the joints are as far as possible from the Non-Potable line.

and Either B) Non-Potable line must be constructed to potable water pipe standards and pressure tested for water tightness for a horizontal distance of 10 feet on both sides of crossing.

or C) Non-Potable or potable line must be cased in a larger diameter carrier pipe for a horizontal distance of 10 feet on both sides of the crossing, with no joints.

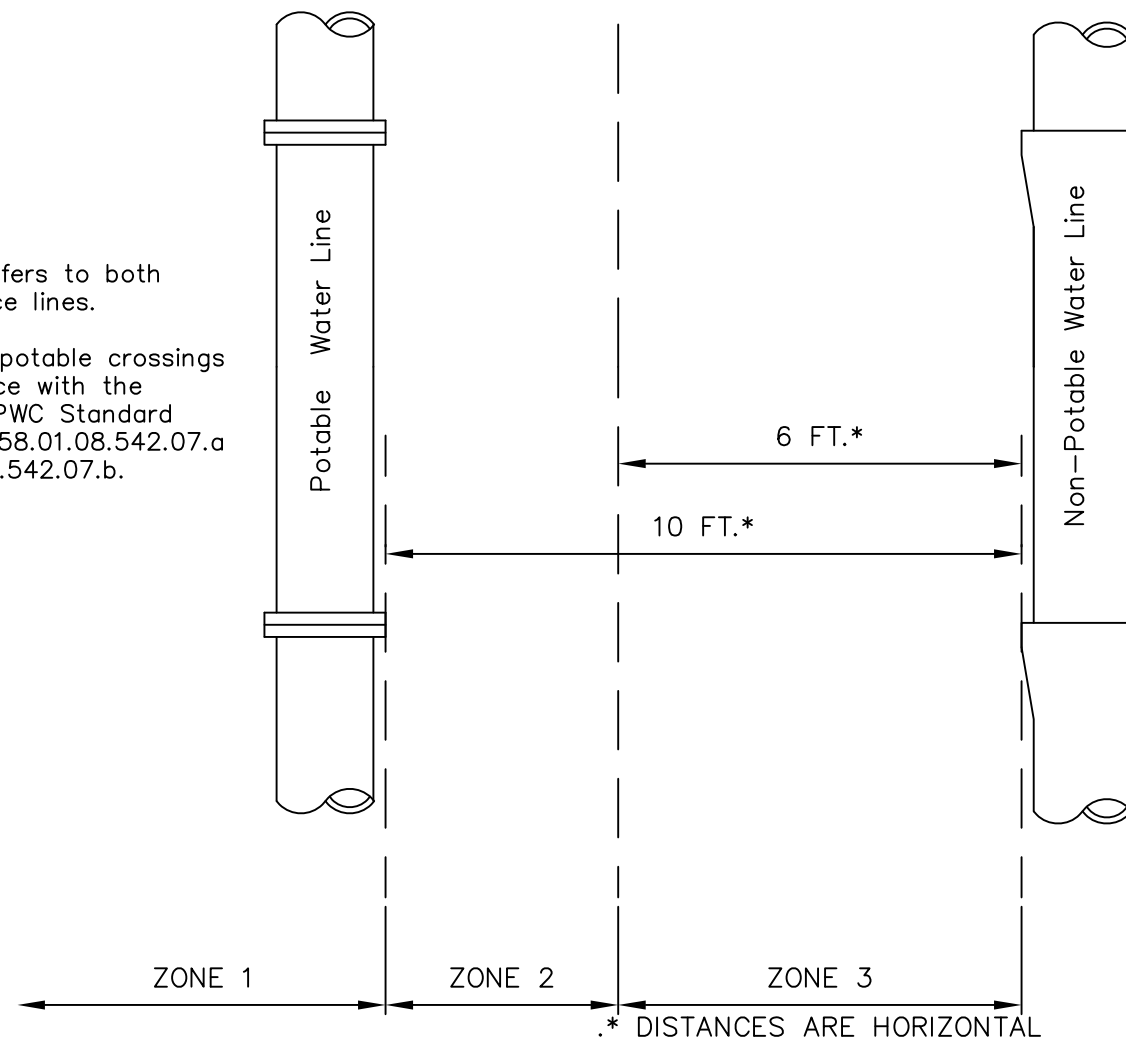
ZONE 3: Same requirements as ZONE 2 except the Non-Potable line must also be supported above the crossing to prevent settling

ZONE 4: Same requirements as ZONE 1 except the Non-Potable line must also be supported above the crossing to prevent settling.

NOTES:

1. The term "line" refers to both main lines and service lines.

2. Potable and non-potable crossings shall be in accordance with the current edition of ISPWC Standard Drawing 407, IDAPA 58.01.08.542.07.a and IDAPA 58.01.08.542.07.b.



HORIZONTAL SEPARATION REQUIREMENTS

ZONE 1: (More than 10 feet apart):
A) No special requirements

ZONE 2: (From 6 to 10 feet apart):

A) No Special requirements for service lines.

B) Potable and Non-Potable mains separated by at least 6 feet at outside walls.

and C) Potable Mains at least 18 inches higher in elevation than the Non-Potable mains.

and D) Non-Potable mains constructed to Potable water class pipe and pressure tested for water tightness.

ZONE 3: (Closer than 6 feet apart):

A) For Mains and Services, Design Engineer to submit data to DEQ for review and approval that this installation will protect public health and environment and non-potable line constructed with potable water class pipe.

NOTE: Sanitary Sewer force mains must have min. 10' horizontal separation and 18" vertical separation. Zone 2 and zone 3 placements are not allowed.

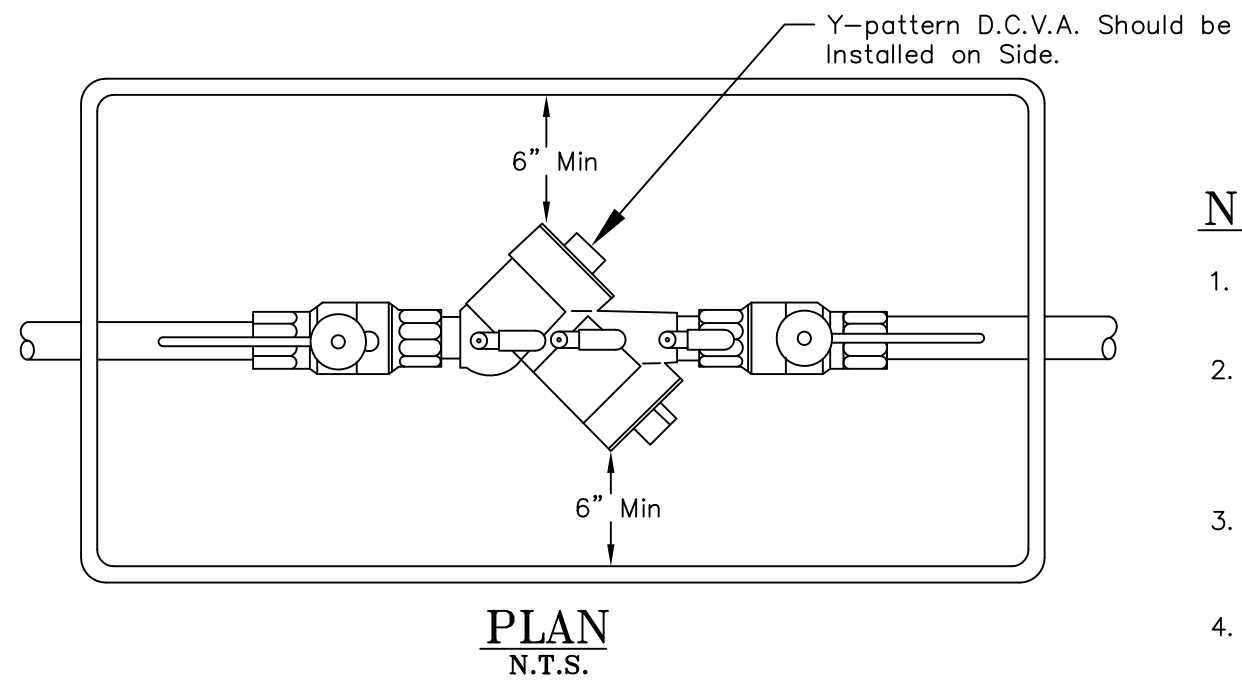
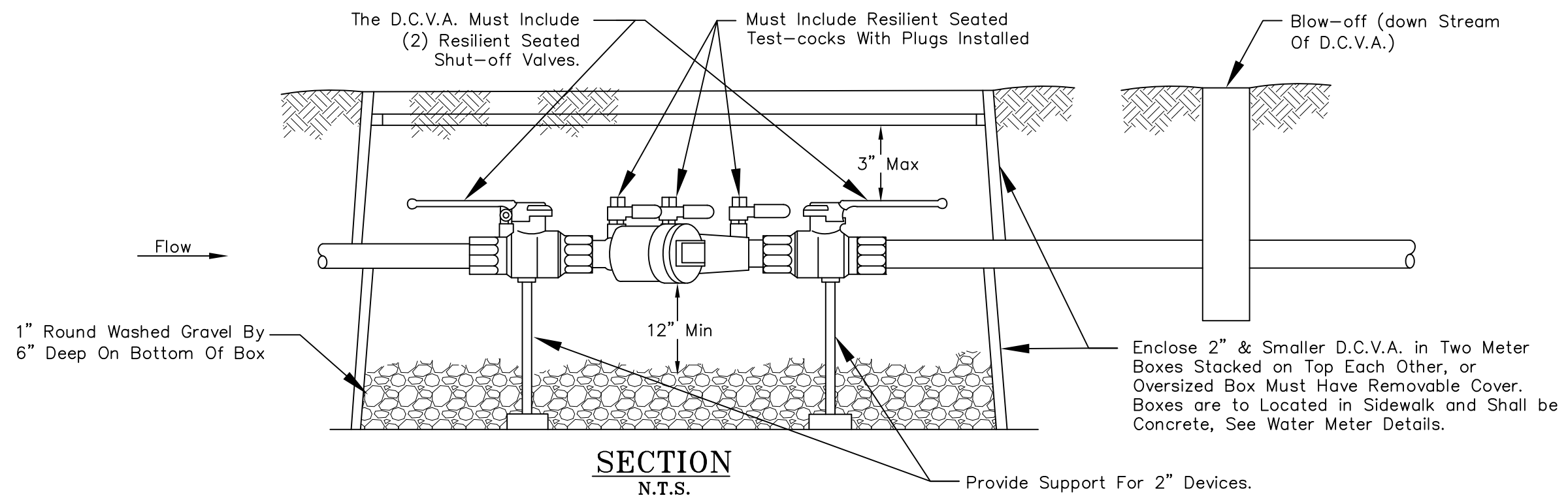
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2012 CITY OF HAILEY
STANDARD DRAWINGS

POTABLE AND NON-POTABLE
WATER LINE (NPWL) SEPARATION

18.14.010.B.7

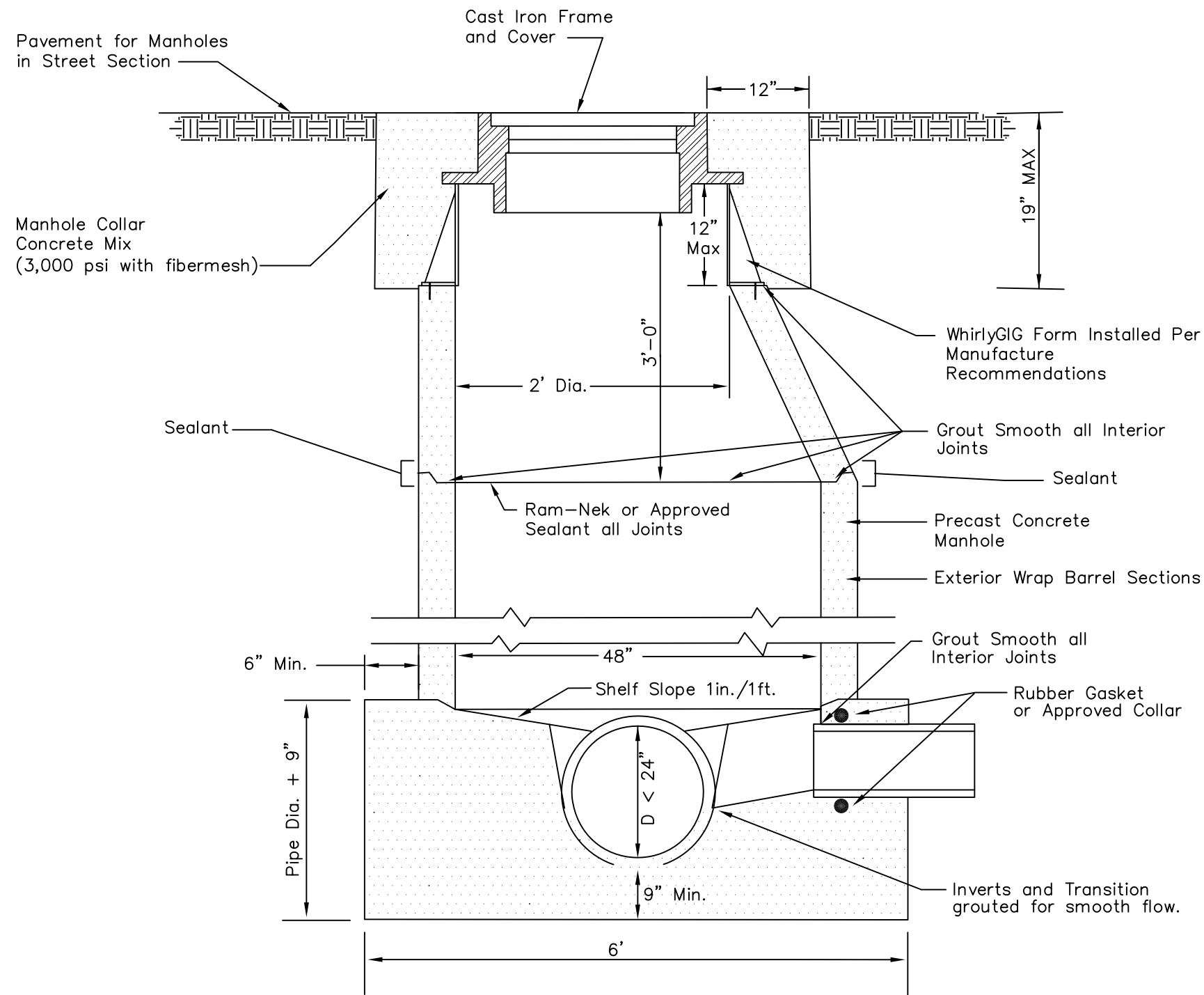
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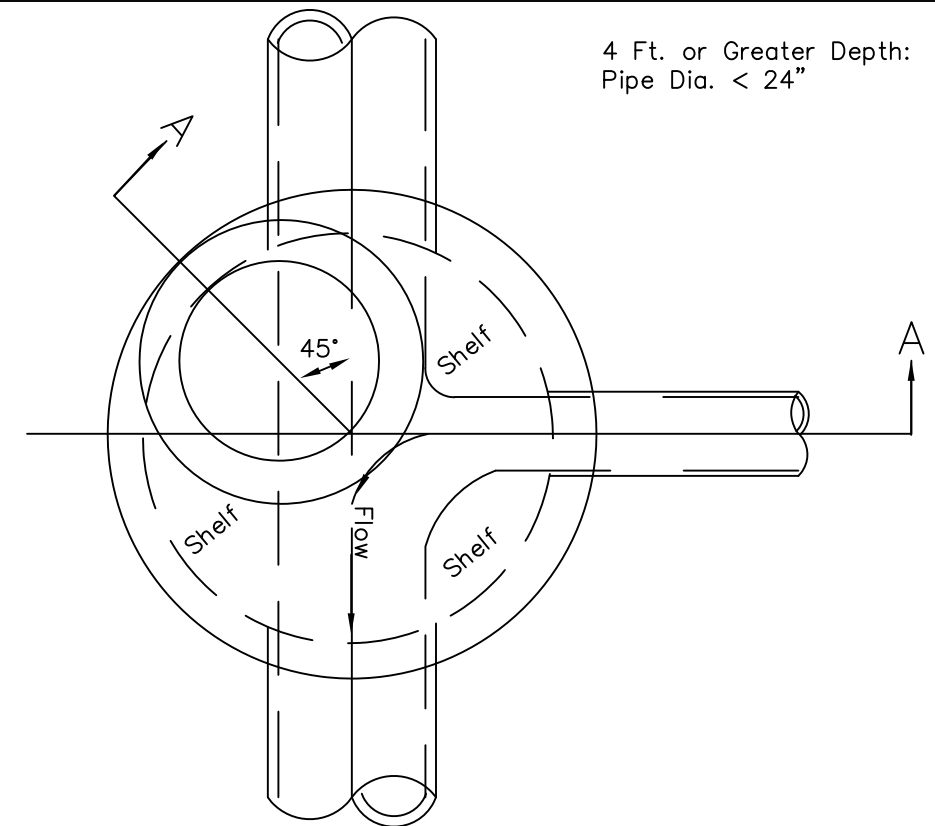
NOTES

1. All Backflow devices must be certified by USC Engineering Center and on the Approved List.
2. Proposed devices must be tested prior to and after installation by an Idaho certified backflow device tester or suitable fire system professional.
3. All services shall conform to the vertical and horizontal separation requirements per DEQ.
4. Check valves shall be U.S.C. approved devices.

REVISIONS	2012 CITY OF HAILEY STANDARD DRAWINGS	IRRIGATION SYSTEM DOUBLE CHECK VALVE	18.14.010.B.8 DRAWING NO.
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TYPICAL MANHOLE (TYPE A)
SECTION A-A
 N.T.S.



4 Ft. or Greater Depth:
 Pipe Dia. < 24"

PLAN VIEW
 N.T.S.

NOTES

- Optional cast in place manhole base with approved pipe connections may be used with city approval.
- Service lines shall not be connected to manholes.
- Manhole frame and cover:
 - See Drawing No. 18.14.010.C.3
 - Frame, cover, and concrete collar, shall be 0" to 1/4" below the grade of pavement
- WhirlyGIGs allowed up to 12" height.
- Where PVC is utilized, a rubber ring or gasket collar is to be installed where the pipe is in contact with manhole base and/or manhole channel, in order to insure a watertight seal.
- See drawing No. 18.14.010.C.2 for shallow manhole Type B.
- Frame and cover shall be adjusted to grade after paving. A steel plate shall cover the concrete cone prior to placing gravel and pavement. A neat circular cut shall be made in the new pavement to install the grade rings, frame and concrete collar.
- Manhole shall be located so that the Frame and Cover will be six (6) feet from the centerline for residential streets or per the Approved Construction Plans for other streets.
- Fiberglass Dust Pan Required on all Manholes that are not on Paved Streets.
- Exterior wrap material shall be EZ-Wrap Rubber or approved equal.
- Concrete collar shall be provided for all manholes.
- No steps are allowed. If steps are removed repair holes with grout.
- Torque Boot to manufacturers specifications (60 in/lb typical).

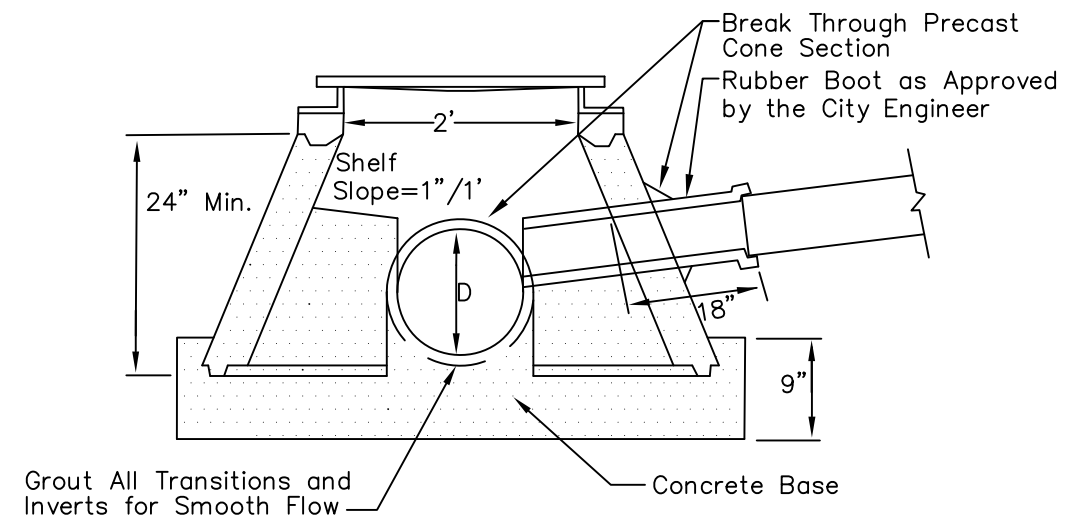
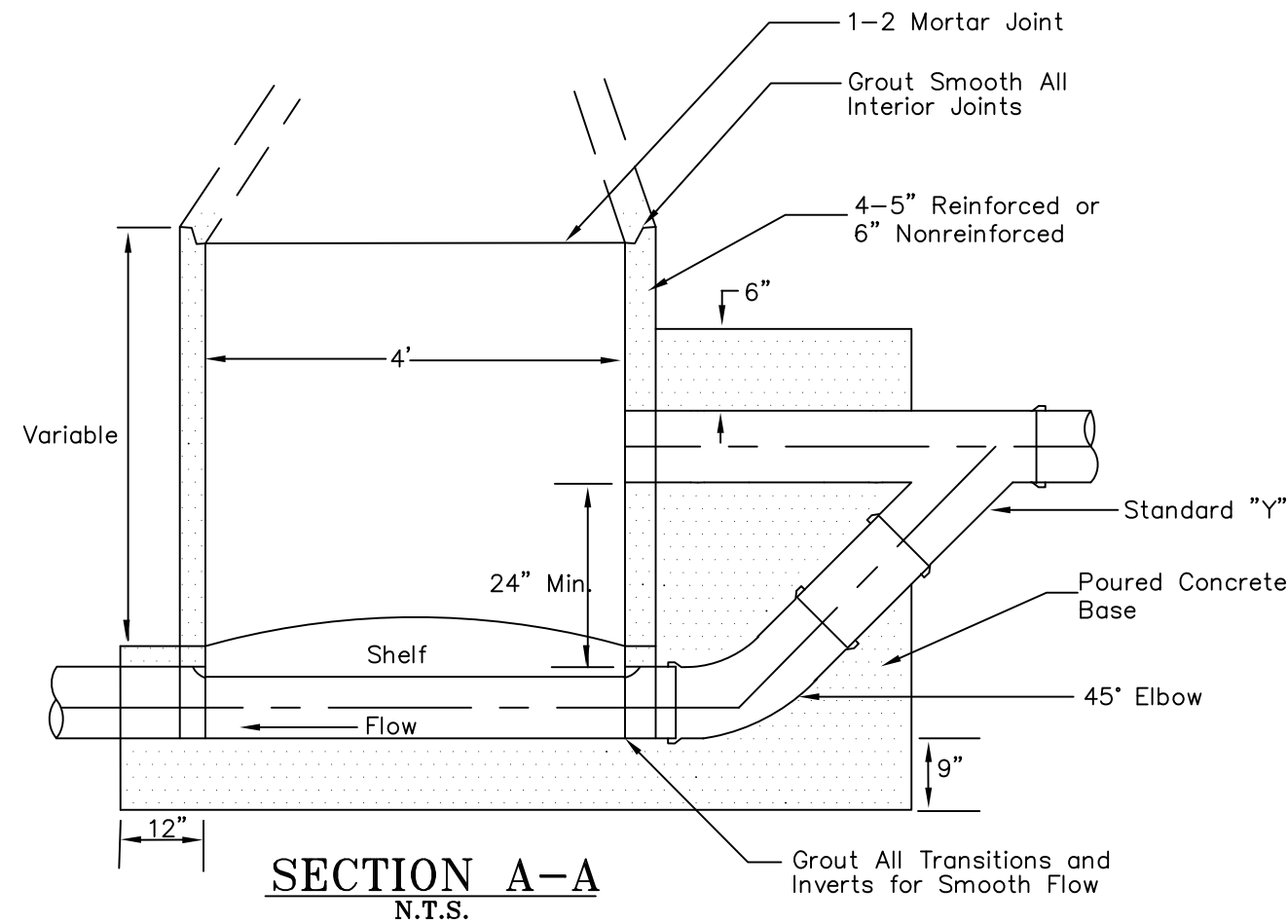
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2012 CITY OF HAILEY
 STANDARD DRAWINGS

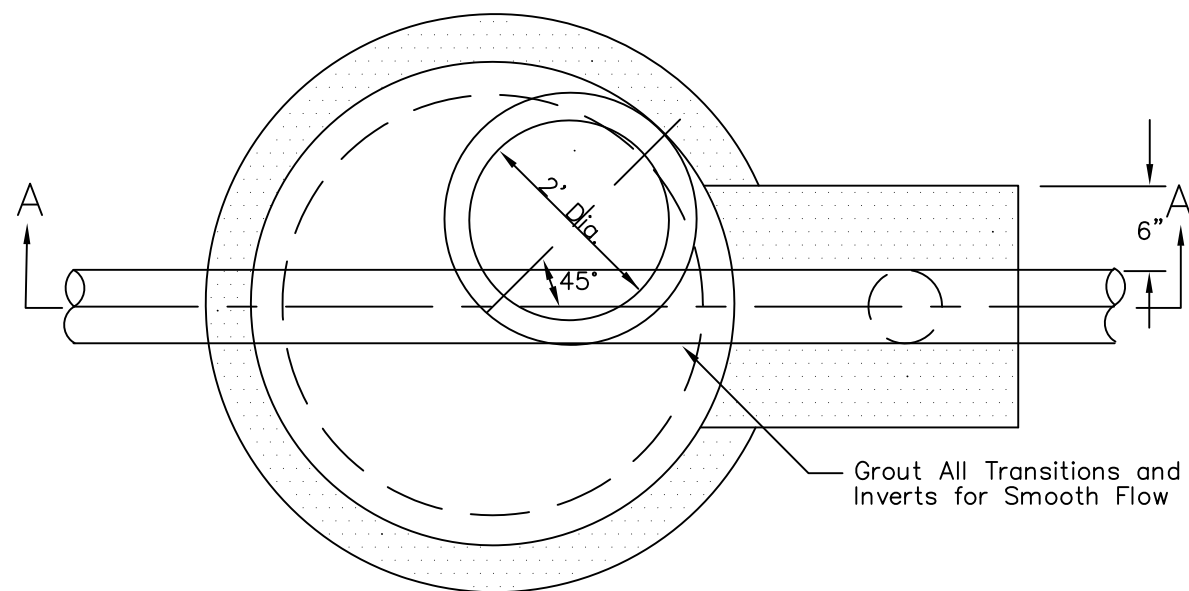
SEWER MANHOLE (TYPE A)

18.14.010.C.1

DRAWING NO.



**SHALLOW MANHOLE
(TYPE B)
SECTION-A
N.T.S.**



**DROP MANHOLE
(TYPE C)
PLAN
N.T.S.**

NOTES

1. Manhole frame and cover installation:
A. See standard drawing No. 18.14.010.C.1.
2. Where PVC is utilized, a rubber ring or gasket collar is to be installed where the pipe is in contact with manhole base and/or manhole channel, in order to insure a watertight seal.
3. Use manhole Type B with manholes greater than 30" deep and less than 48" deep to flow line of pipe.
4. A concentric cone section shall be used for shallow manholes.
5. Optional cast in place manhole base with approved pipe connections may be used with City Engineer's approval.
6. Concrete Collar shall be provided for all Manholes, as shown on drawing No. 18.14.010.C.1.
7. Fiberglass Dust Pan Required on all Manholes that are not on Paved Streets as approved by City Engineer.
8. Grout all Transition and Inverts for Smooth Flow.
9. Use manufacture recommended exterior wrap material. Material will need approval of City Engineer.
10. Concrete collar shall be provided for all manholes.
11. No steps are allowed. If steps are removed repair holes with grout.

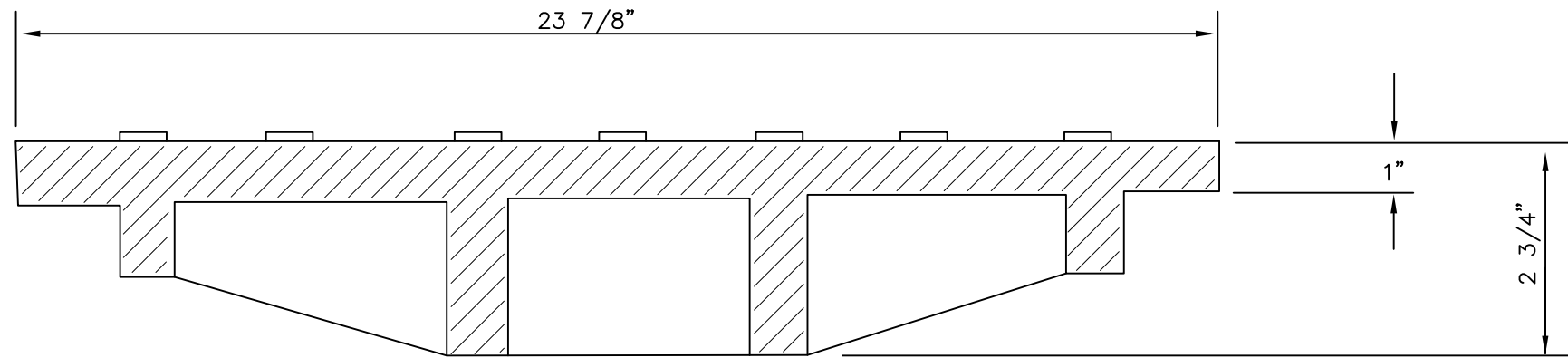
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2012 CITY OF HAILEY
STANDARD DRAWINGS

SPECIAL SEWER MANHOLES

18.14.010.C.2

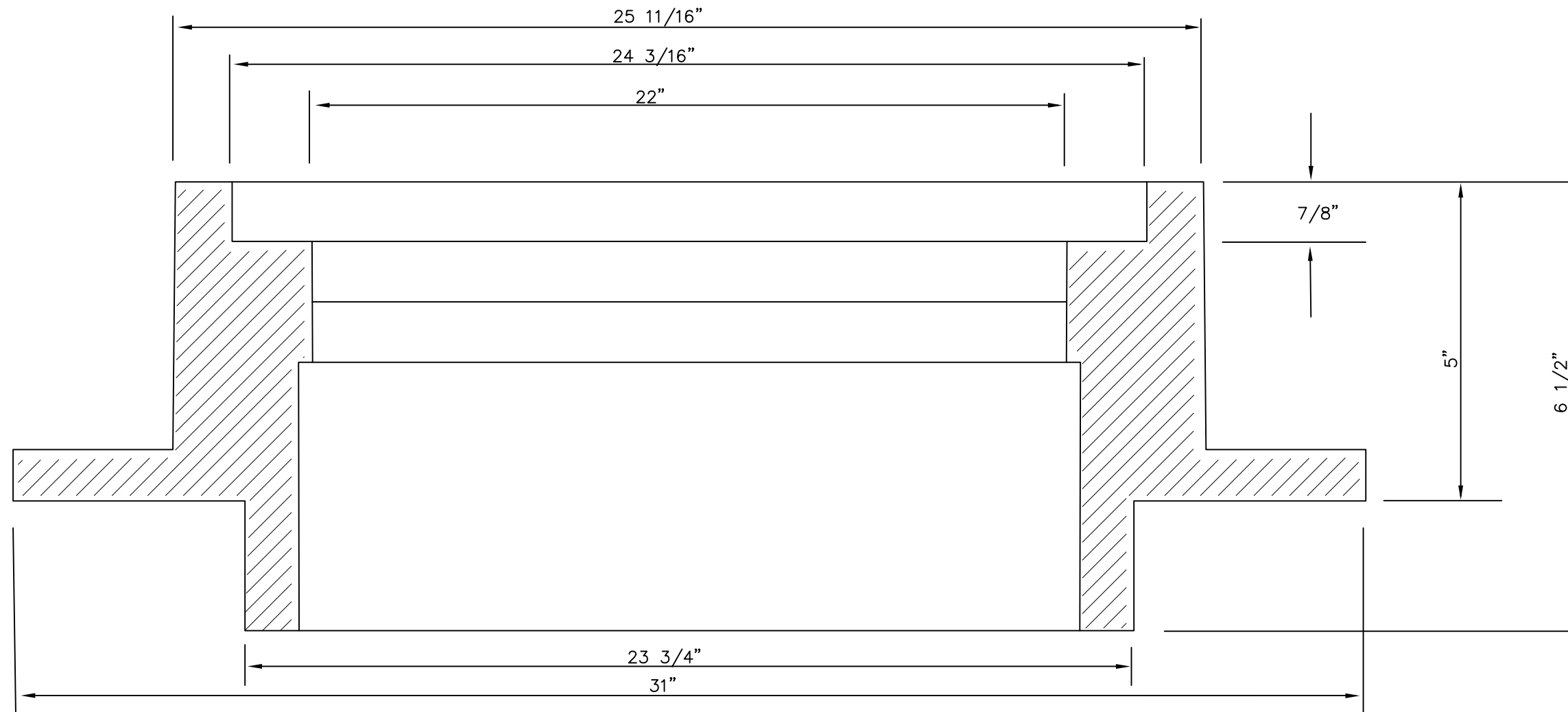
DRAWING NO.



COVER
N.T.S.

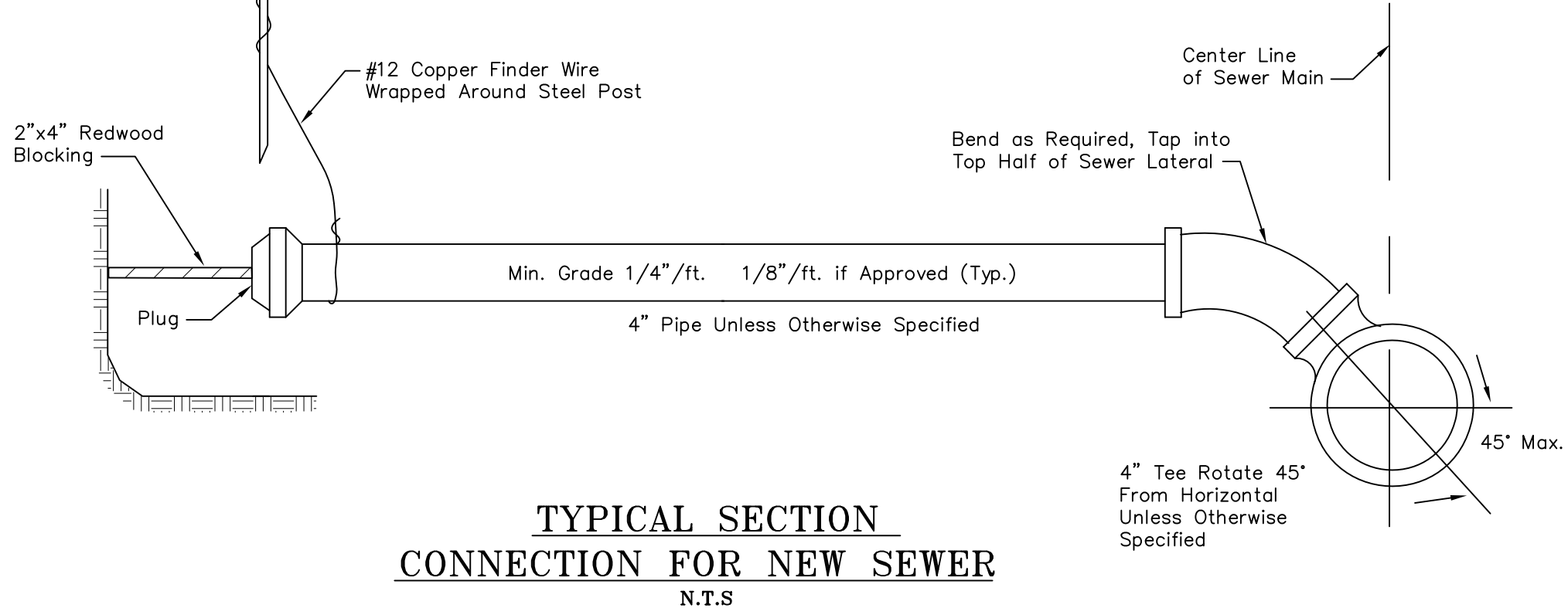
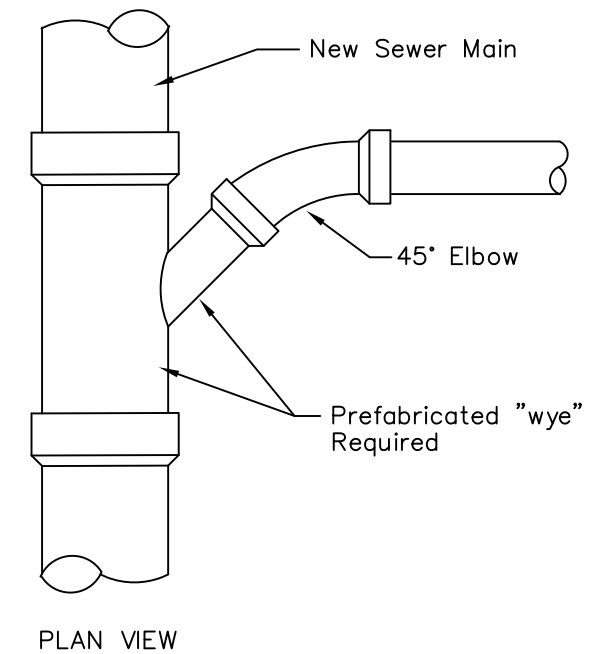
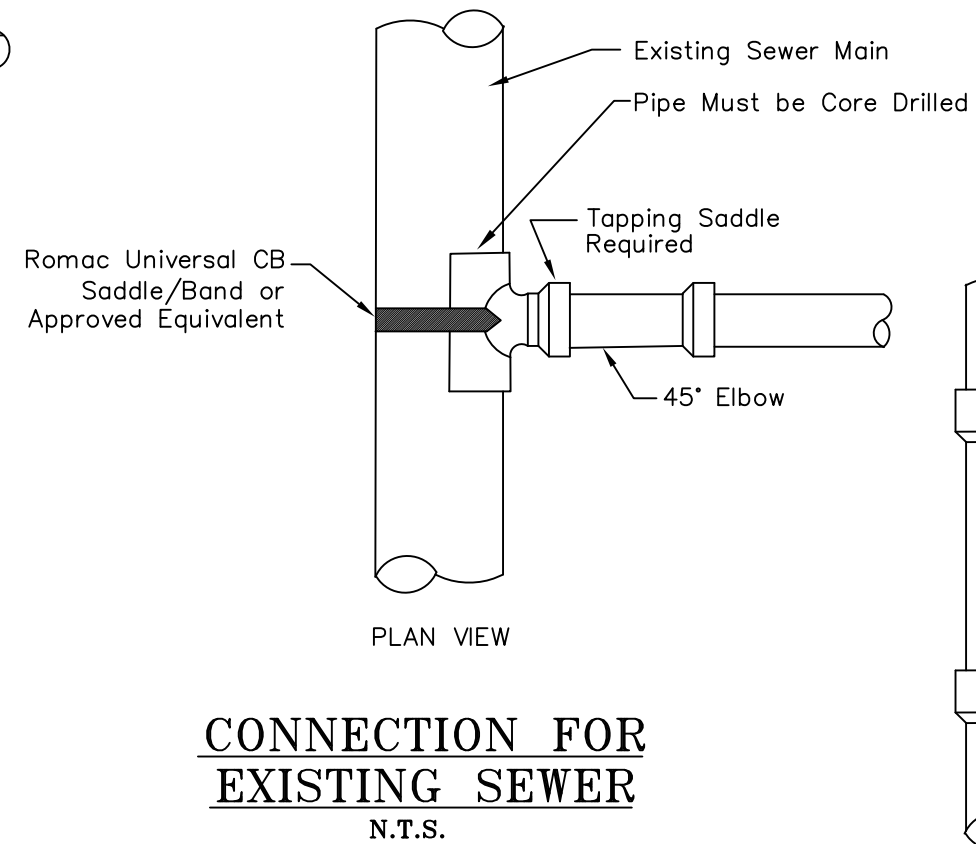
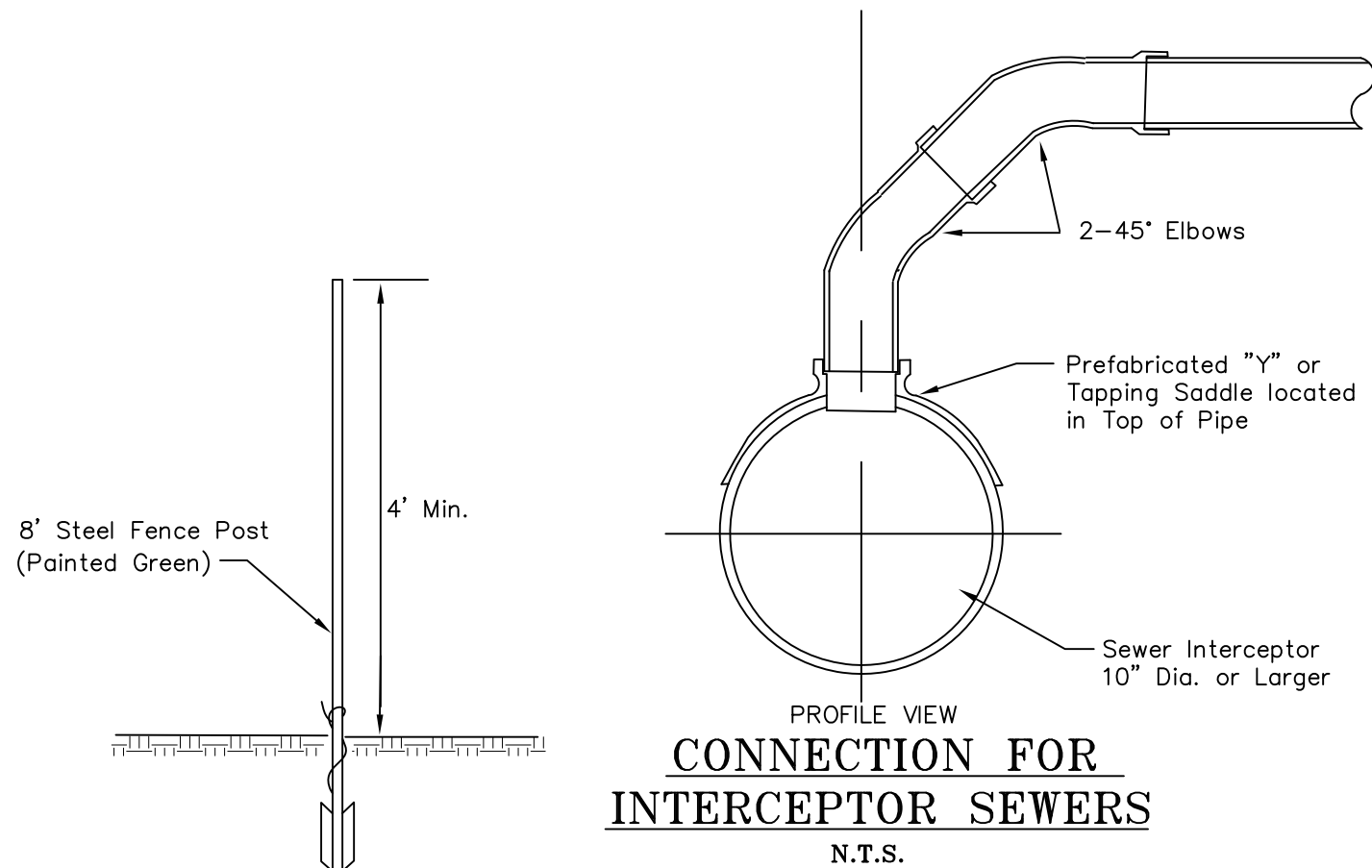
NOTES

1. Top of Cone Shall Not be Broken, Chipped, or Ground off to Lower the Ring and Cover.
2. To Lower the Ring and Cover, the Existing Cone Shall be Removed and Replaced With a New Cone.
3. Fiberglass Dust Pan Required on all Manholes that are not on Paved Streets.
4. Minimum Weight of Frame 147 lbs.
5. Minimum Weight of Cover 93 lbs.
6. Cover Shall Have 2 (Two) 1" (One Inch) Dia. Holes Spaced Equidistantly.



RING
N.T.S.

REVISIONS	2012 CITY OF HAILEY STANDARD DRAWINGS	MANHOLE COVER & FRAME	18.14.010.C.3 DRAWING NO.
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NOTES

1. Sewer taps shall not enter at manholes.
2. An approved tapping saddle shall be required for all new taps to existing sewer laterals. Saddle to be approved by The City Engineer.
3. An owner constructing a new public sewer system in a subdivision or development shall construct a sewer tap and service for each potential user and extend it into the property.
4. When Sewer and Water lines or services cross refer to the current edition of ISPWC Standard Drawing 407, IDAPA 58.01.08.542.07.a and IDAPA 58.01.08.542.07.b which address the requirements for separation distances between potable water lines (including mains and service lines) with non-potable lines.

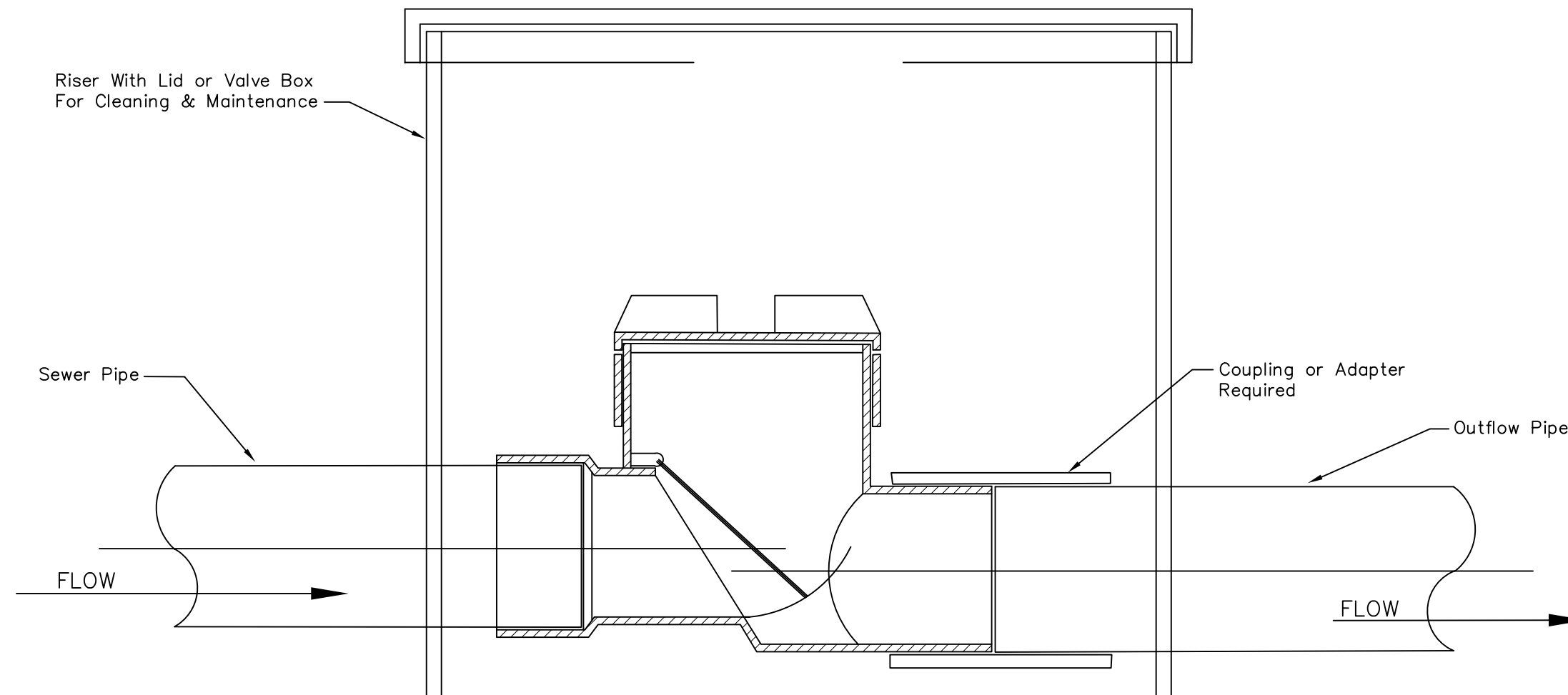
REVISIONS

2012 CITY OF HAILEY
STANDARD DRAWINGS

SEWER SERVICE CONNECTION

18.14.010.C.4

DRAWING NO.



TYPICAL SECTION
BACKWATER PREVENTION DEVICE

N.T.S.

NOTES

1. Backwater prevention device shall be required in sewer service lines that service basements. It shall be located on owner's property and maintained by the owner.
2. An approved equal may be substituted for this backwater valve.

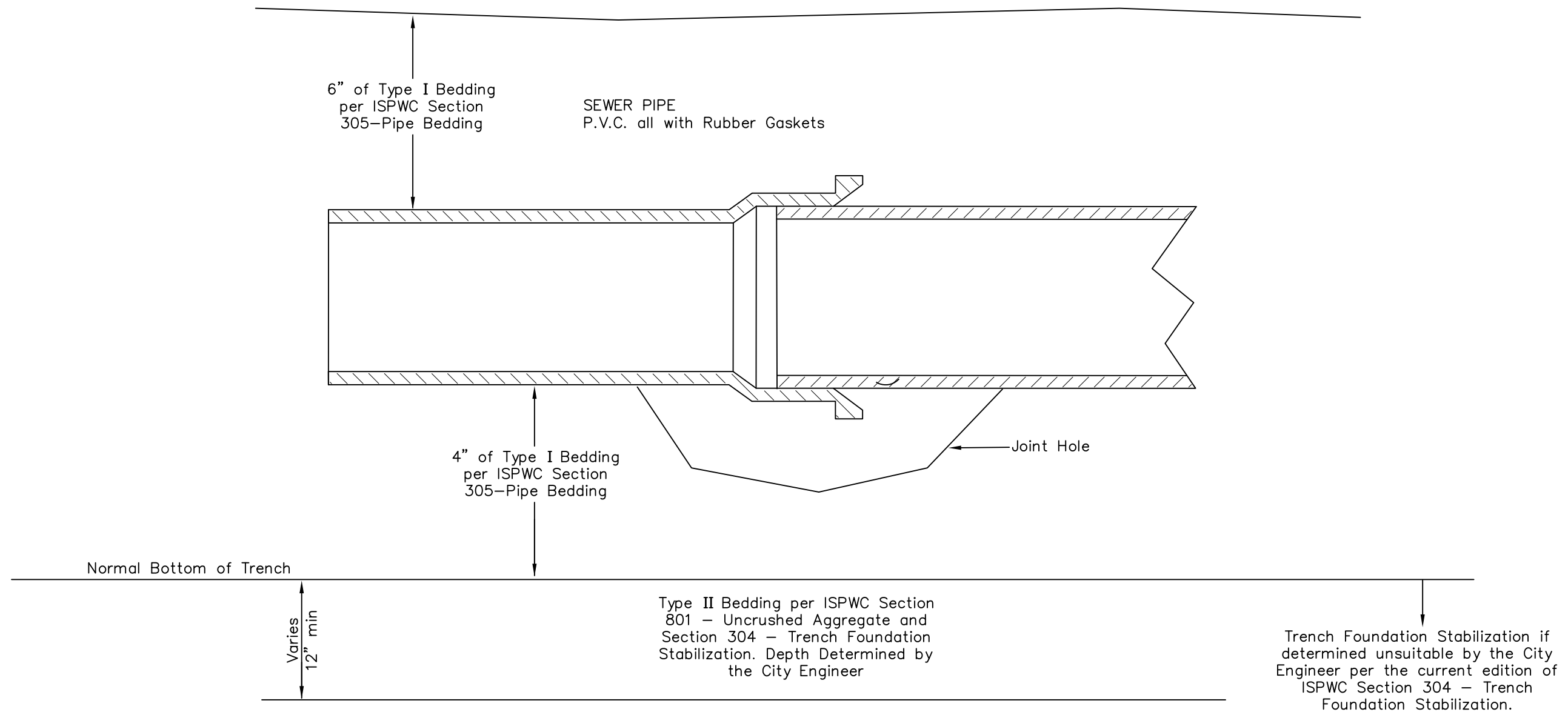
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**2012 CITY OF HAILEY
STANDARD DRAWINGS**

SEWER BACKWATER VALVE

18.14.010.C.5

DRAWING NO.



SEWER PIPE LAYOUT SECTION

N.T.S.

NOTES

1. Trenching shall be in accordance with the current edition of ISPWC Division 300-Trenching.
2. Sewer Pipe shall be marked as 'Non-Potable Water' with the words facing up.
3. When Water and Sewer lines or services cross refer to the current edition of ISPWC Standard Drawing 18.14.010.B.8, IDAPA 58.01.08.542.07.a and IDAPA 58.01.08.542.07.b, which address the requirements for separation distances between potable water lines (including mains and service lines) with non-potable lines.

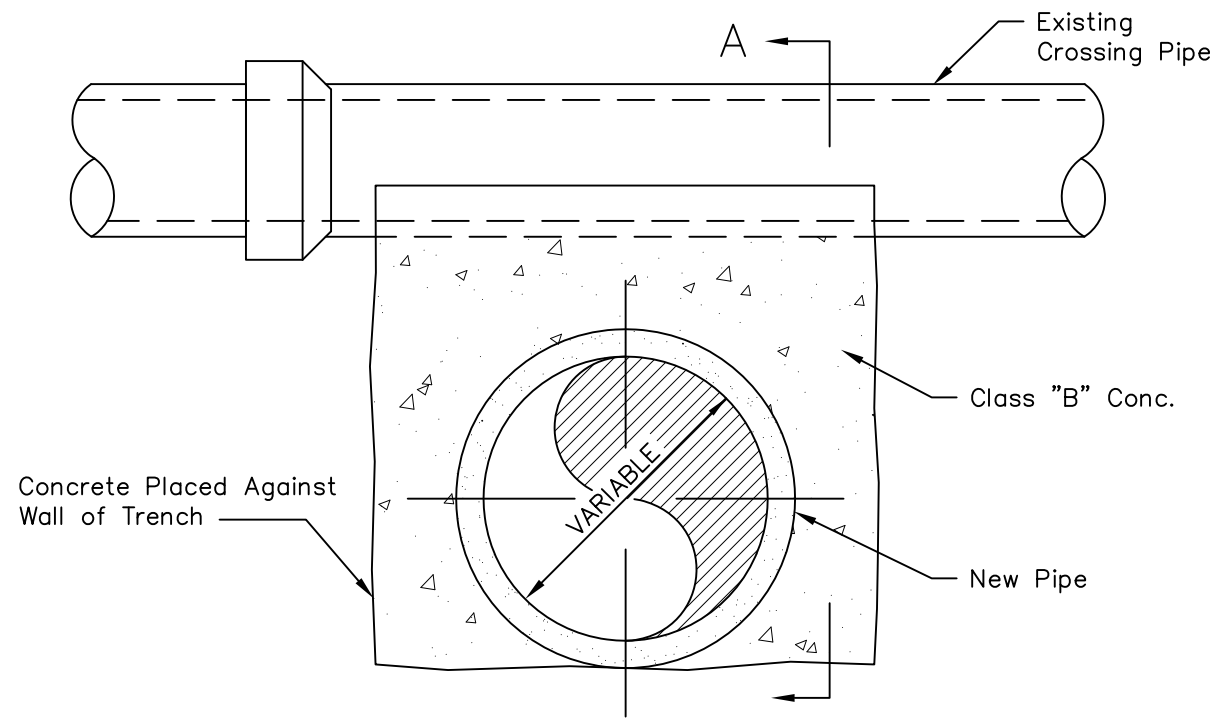
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SEWER PIPE LAYING

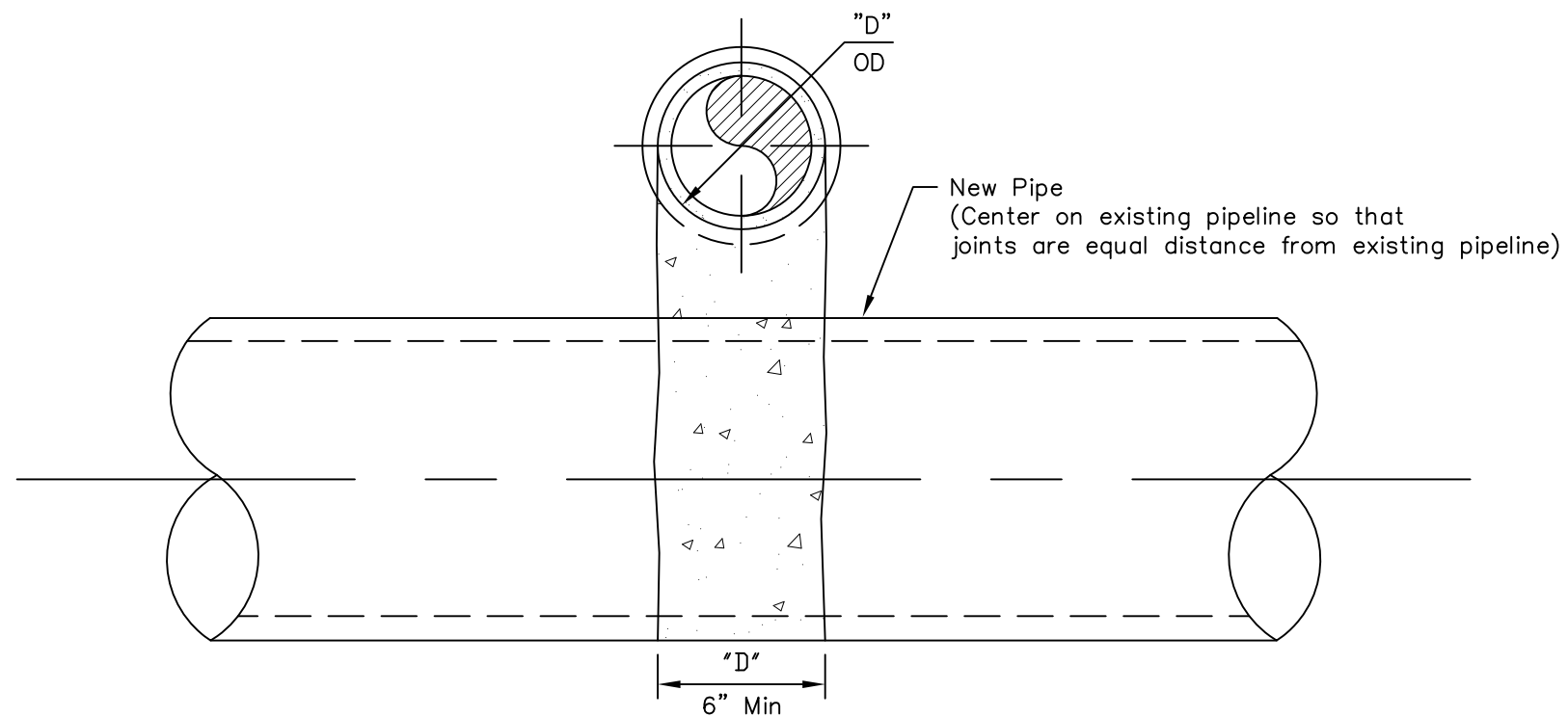
18.14.010.C.6

DRAWING NO.



SECTION THROUGH NEW PIPE TRENCH

N.T.S.



SECTION A

PIPE SUPPORT ACROSS TRENCH

N.T.S.

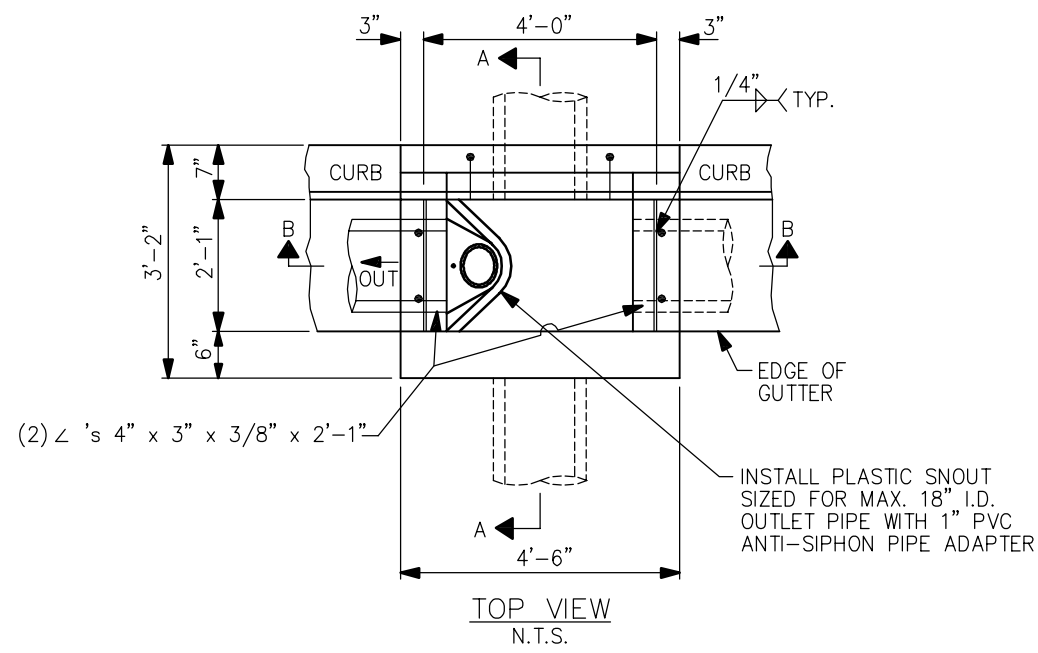
REVISIONS

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STANDARD DRAWINGS

PIPE SUPPORT
ACROSS TRENCH

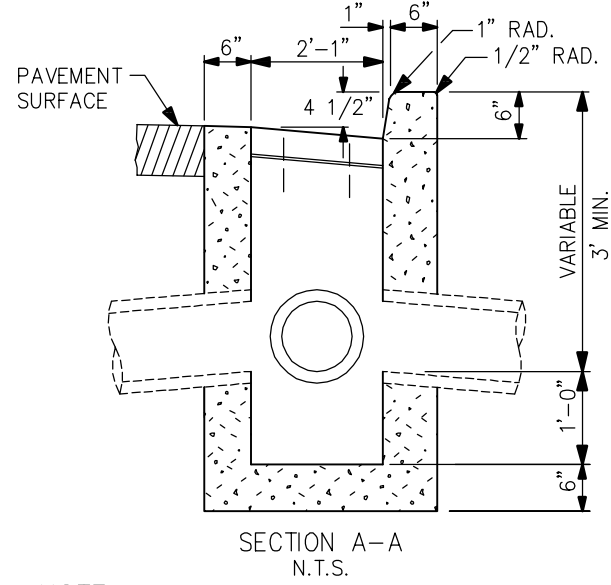
18.14.010.C.7

DRAWING NO.



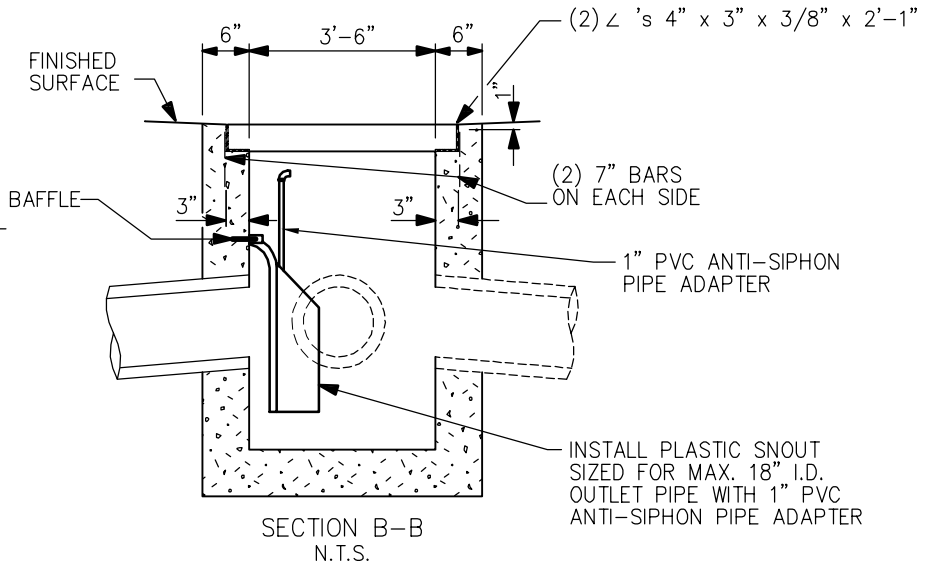
NOTES

1. OUTLET PIPES ARE SHOWN IN ALL DIRECTIONS ON DETAIL. OUTLET AND INLET PIPES SHALL BE DESIGNED AS NECESSARY FOR INDIVIDUAL APPLICATIONS.
2. SNOOTS SHALL BE INSTALLED ON OUTLET OF UPSTREAM MAIN CATCH BASINS FROM DRYWELL ONLY, NOT ON SATELLITE CATCH BASINS.



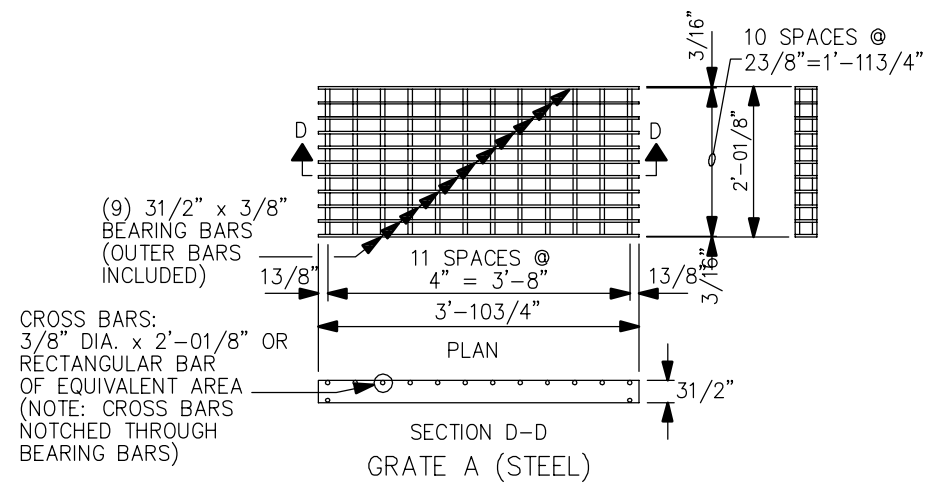
NOTE

1. OUTLET PIPES ARE SHOWN IN ALL DIRECTIONS ON DETAIL. OUTLET AND INLET PIPES SHALL BE DESIGNED AS NECESSARY FOR INDIVIDUAL APPLICATIONS.



NOTES

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2. SNOOTS SHALL BE INSTALLED ON OUTLET OF UPSTREAM MAIN CATCH BASINS FROM DRYWELL ONLY, NOT ON SATELLITE CATCH BASINS.



NOTES

1. PRIMARY CATCH BASINS TO BE INSTALLED IMMEDIATELY UPSTREAM OF DRYWELL. SATELLITE CATCH BASINS (18.14.010.D.2) MAY BE INSTALLED UPSTREAM OF PRIMARY CATCH BASIN.
2. INLETS AND CATCH BASINS MAY BE EITHER PRECAST OR CAST-IN-PLACE. PRECAST UNITS SHALL MEET THE REQUIREMENTS OF ASTM C 913. (PRIOR APPROVAL OF SHOP DRAWINGS WILL BE REQUIRED ON MODIFIED UNITS.)
3. A 1" SIDE DRAFT IS ALLOWED FOR FORM REMOVAL.
4. THE GRADE LINE OF THE TOP INSIDE OF ANY PIPE SHALL ENTER AT A POINT NO LOWER THAN THE TOP INSIDE OF THE OUTLET PIPE.
5. PIPES CAN ENTER OR LEAVE THE BOX IN ANY DIRECTION. ALL CONNECTIONS AND BROKEN AREAS SHALL BE GROUTED SMOOTH.
6. STEEL ANGLES SHALL BE SET SO THAT EACH BEARING BAR OF PREFABRICATED GRATE SHALL HAVE FULL BEARING ON BOTH ENDS. THE FINISHED TOP OF CONCRETE SHALL BE EVEN WITH THE ANGLE/GRATE SURFACE. THE STRUCTURAL STEEL NEED NOT BE PAINTED BUT SHALL MEET THE REQUIREMENTS OF ASTM A 36.
7. ALL METAL REINFORCEMENT USED SHALL BE NO. 4 BARS. THE METAL REINFORCEMENT SHALL BE SMOOTH CUT TO ACCOMMODATE PIPES.
8. INLET/CATCH BASIN GRATES MAY EITHER BE RESISTANCE WELDED OR ARC WELDED. IN EITHER CASE THE GRATE SHALL BE TRUE AND FLUSH.

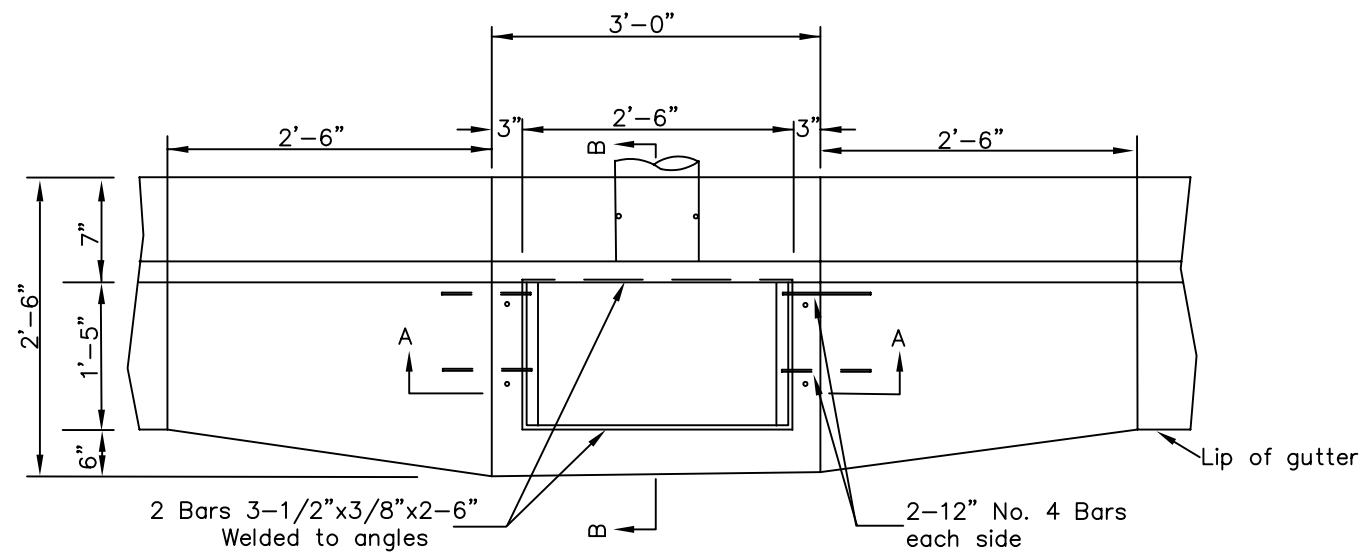
REVISIONS

2012 CITY OF HAILEY
STANDARD DRAWINGS

PRIMARY CATCH BASIN

18.14.010.D.1

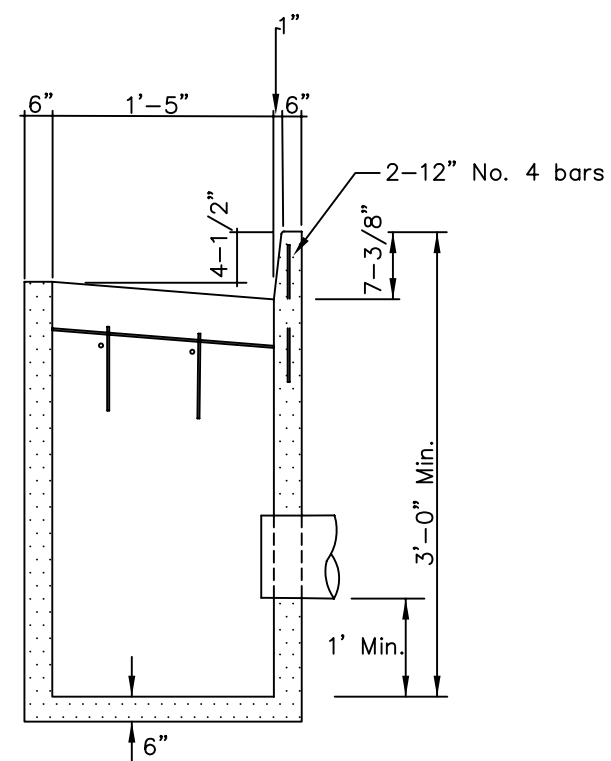
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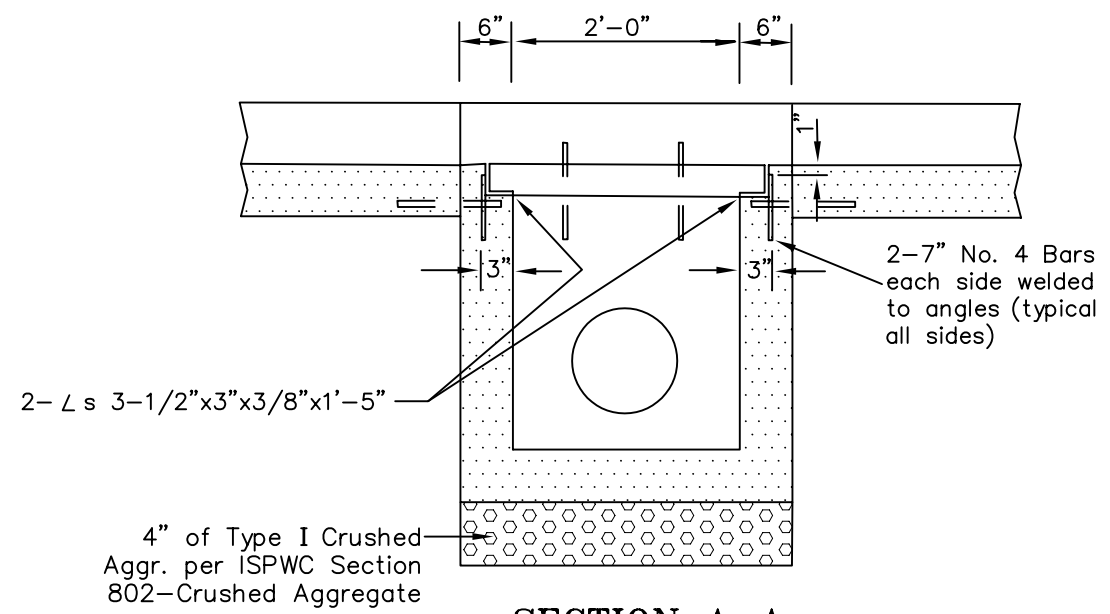
CATCH BASIN PLAN VIEW
N.T.S.

NOTES

1. Satellite catch basin shall only be installed upstream of primary catch basin (18.14.010.D.1).
2. Pipes may enter or leave box from any direction.
3. Minimum pipe size shall be (12) inch diameter.
4. See Hailey Standard Drawing 18.14.010.D.2 for Grate Detail.
5. Cast in place box is acceptable.



SECTION B-B
N.T.S.



SECTION A-A
N.T.S.

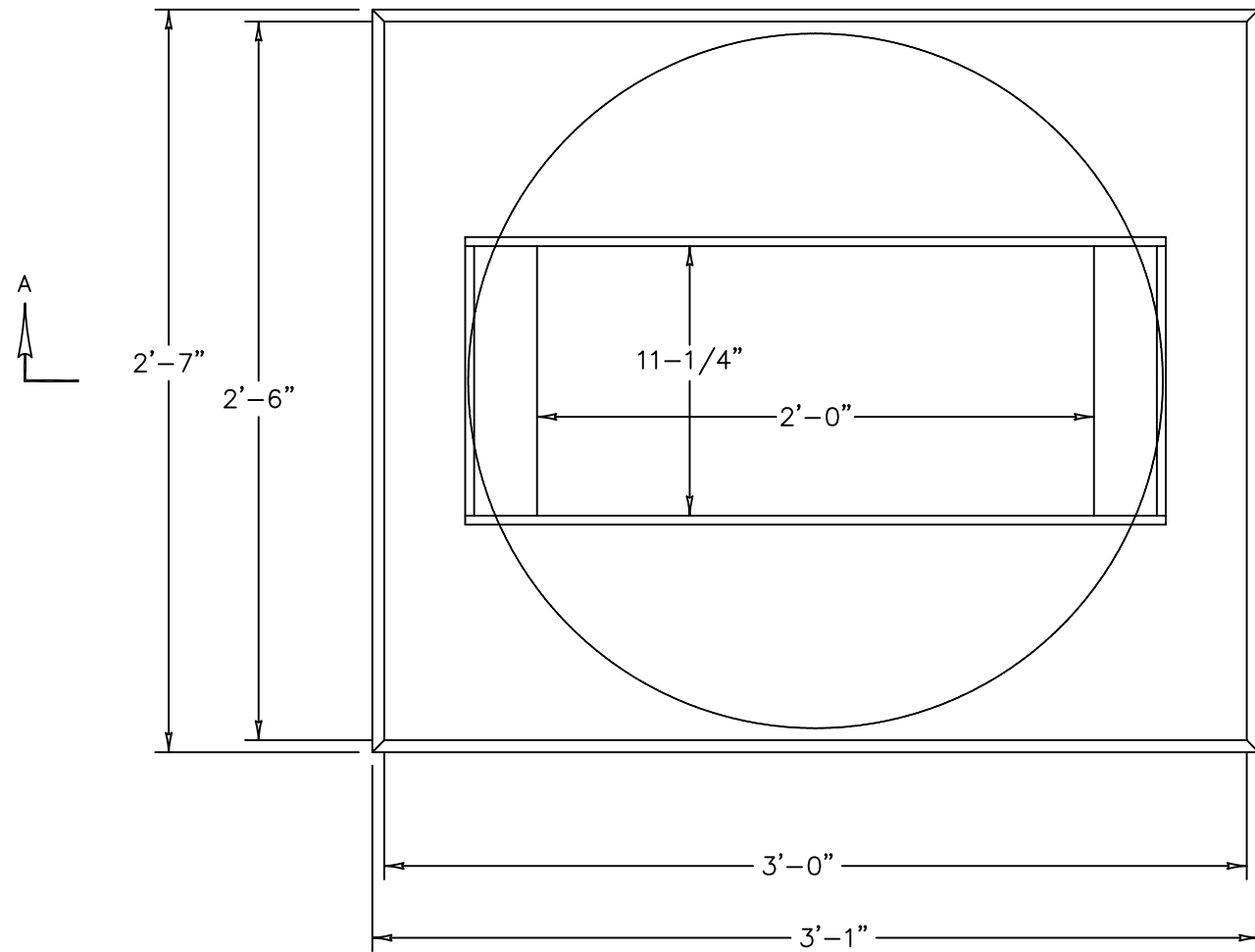
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STANDARD DRAWINGS

SATELLITE CATCH BASIN

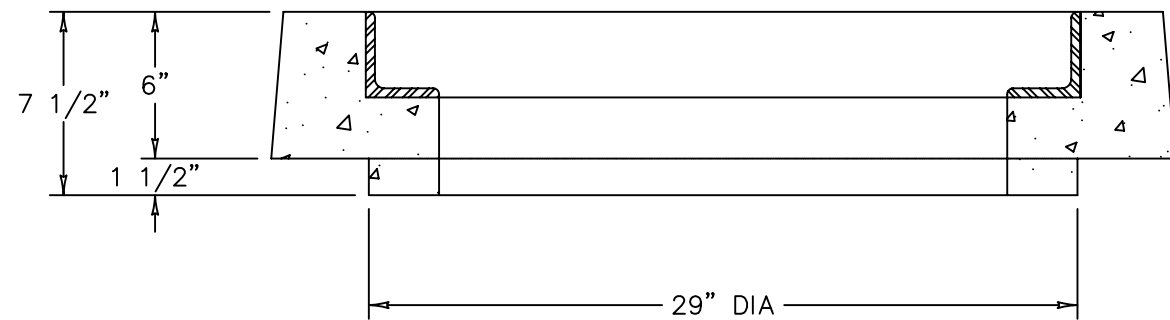
18.14.010.D.2

DRAWING NO.

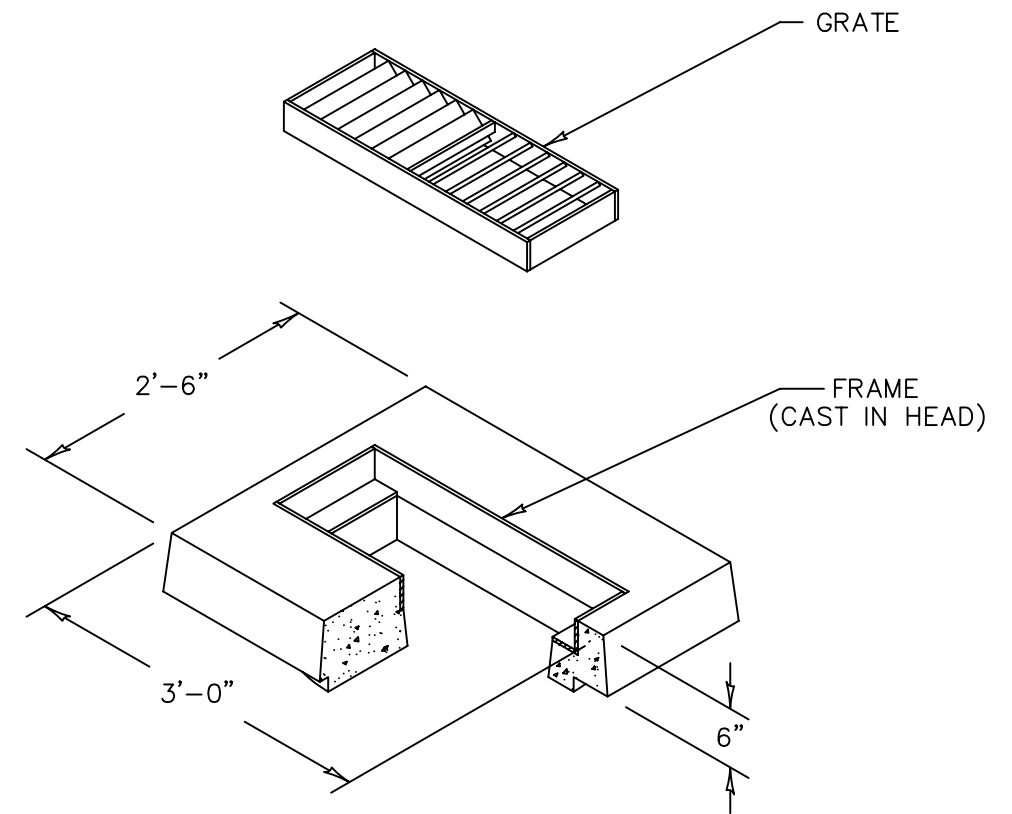


FRAME PLAN VIEW
N.T.S.

each side



FRAME SECTION A-A'
N.T.S.



HEAD WITH FRAME & GRATE
N.T.S.

Frame and Grate Shall be AMCOR City of Idaho Falls Standard Frame and Grate, Model UVCBFG, or Approved Equivalent.

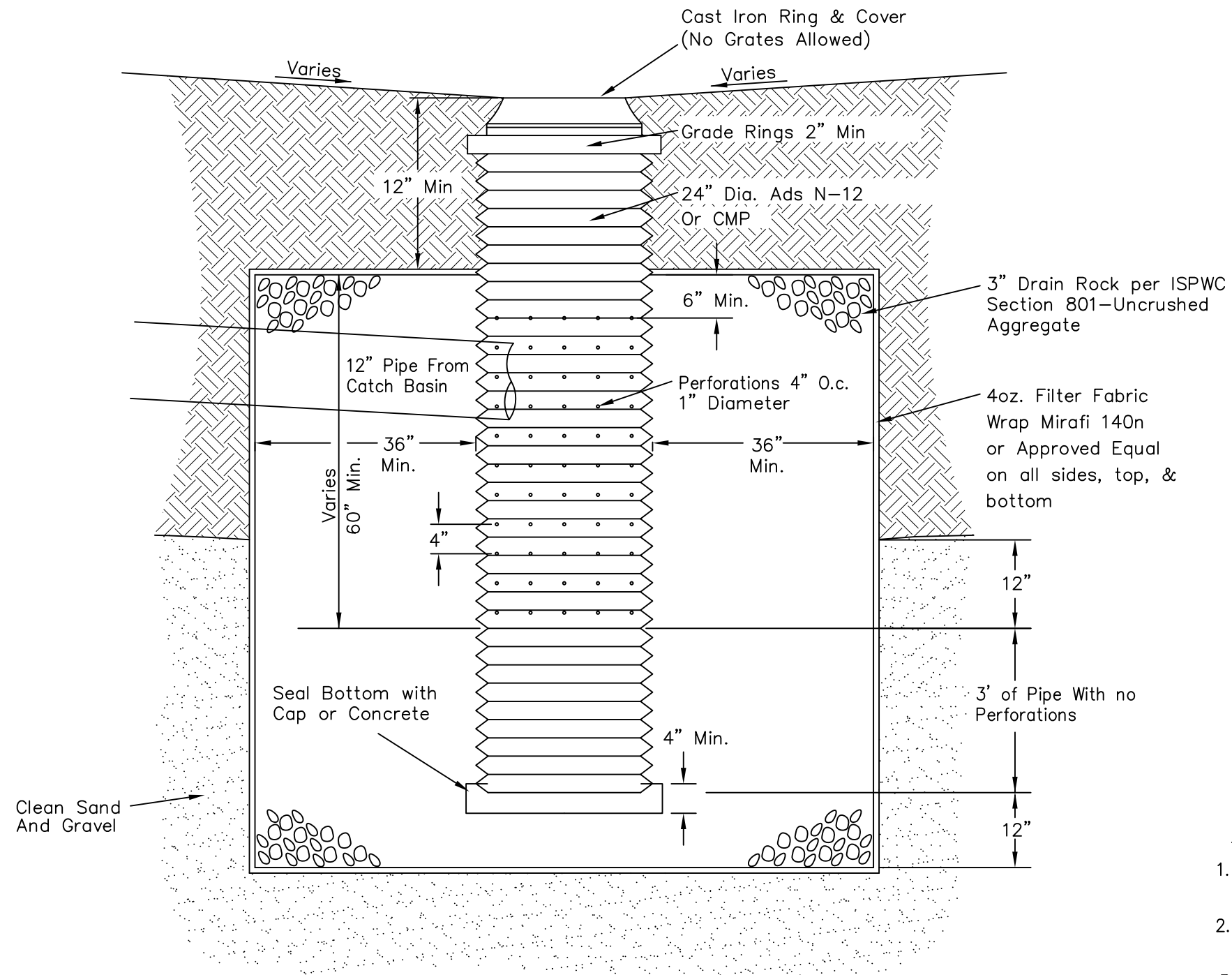
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2012 CITY OF HAILEY
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SATELLITE CATCH BASIN
INLET FRAME AND
GRATE DETAIL

18.14.010.D.3

DRAWING NO.



Note: The bed shall be excavated a minimum of 24" into clean sand and gravel. If clean sand and gravel is not encountered within 12 feet, the contractor shall contact the Engineer.

DRYWELL DETAIL

N.T.S.

NOTES

1. Actual depth shall be determined by the Engineer and approved by the City Engineer.
2. Actual size of drain area shall be designed by the Engineer based on a 1 inch, 1 hour storm.
3. All Developers/Owners for commercial or industrial building permits shall furnish a design to the City Engineer based on a 1 inch, 1 hour storm.
4. Drywells must be connected to a catch basin. No inlet grates allowed.

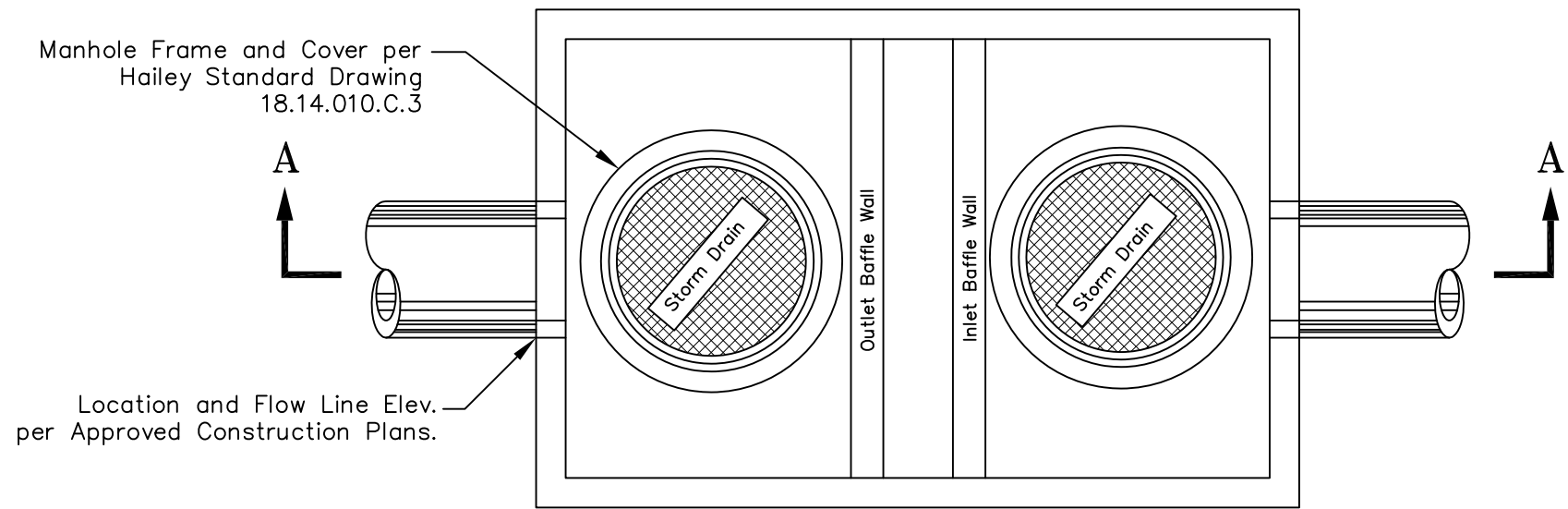
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2012 CITY OF HAILEY
STANDARD DRAWINGS

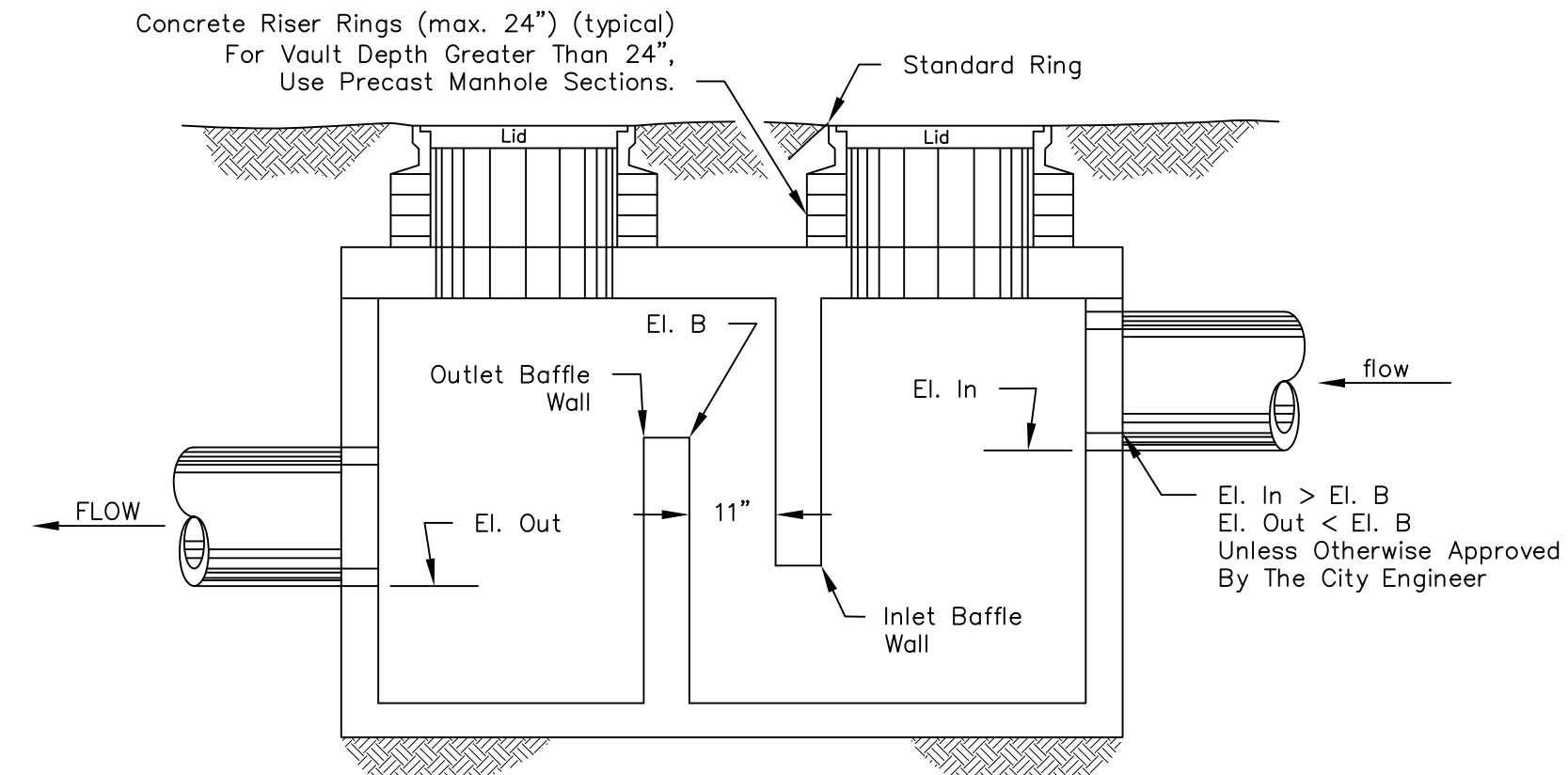
DRYWELL

18.14.010.D.4

DRAWING NO.



PLAN
N.T.S.

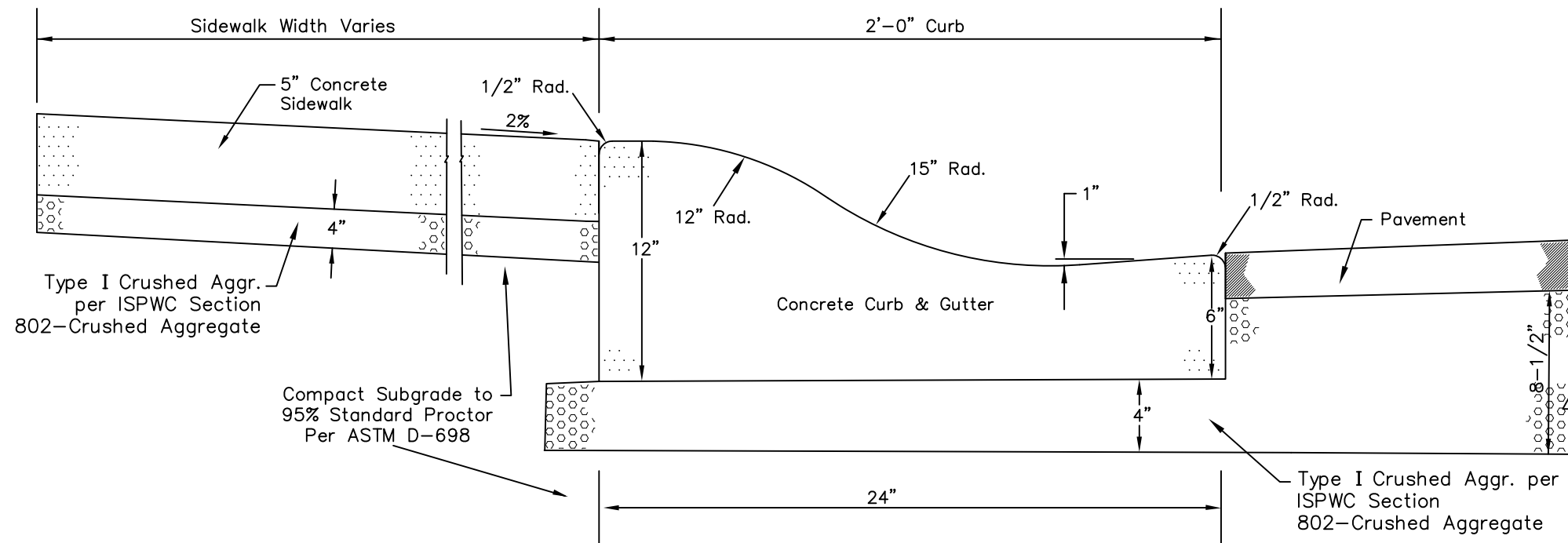


SECTION A-A
N.T.S.

NOTES

1. Design load: AASHTO HS-25 highway loading.
2. All reinforcing steel shall be grade 60.
3. Precast or poured in place traps shall be approved by the City Engineer prior to construction.
4. Height of outlet baffle wall and length of inlet baffle wall determined by tank capacity and flow rate.
5. The City Engineer must give approval for the use of the grease and sand trap.
6. Elev. In must be greater than elev. B. Elev. Out must be less than elev. B. Unless otherwise approved by the City Engineer.
7. Manhole frame, collar and cover shall be per Hailey Standard Drawings 18.14.010.C.1 and 18.14.010.C.3.
8. If distance from top of box to bottom of manhole form exceeds 12" use precast manhole riser plus a maximum of 12" of riser grade rings.
9. Provide steps when distance from top of manhole frame to top of box exceeds 24".
10. All pipe protrusions shall have a water tight seal.

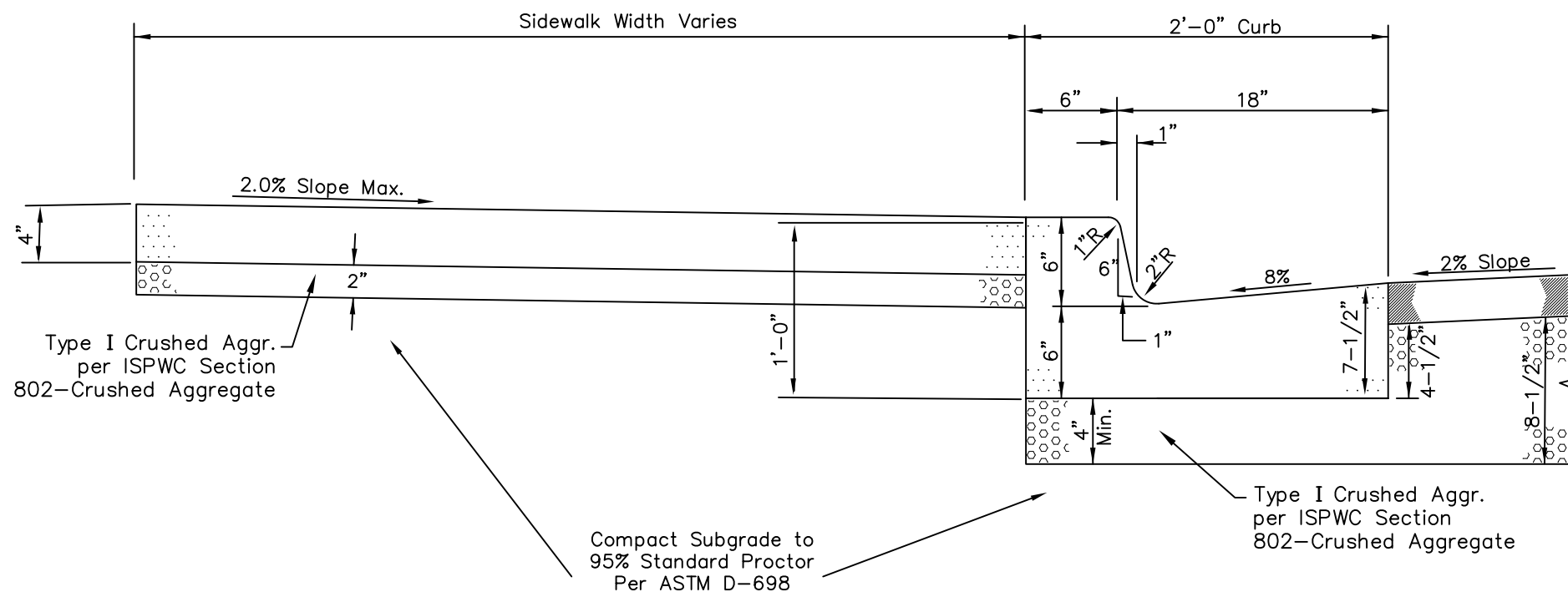
REVISIONS	2012 CITY OF HAILEY STANDARD DRAWINGS	GREASE AND SAND TRAP	18.14.010.D.5
			DRAWING NO.



TYPICAL ROLLED CURB, GUTTER & SIDEWALK DETAIL
(TYPE 2)
 N.T.S.

NOTES:

1. Alternative sidewalk materials including treated wood and pavers may be substituted for concrete with prior approval by the City of Hailey. The adjacent owners shall be responsible for maintenance and repairs to sidewalks constructed with alternative materials.
2. ISPWC Standards may be substituted for machine formed curb & gutter.



TYPICAL 6" VERTICAL CURB & SIDEWALK DETAIL
(TYPE 1)
 N.T.S.

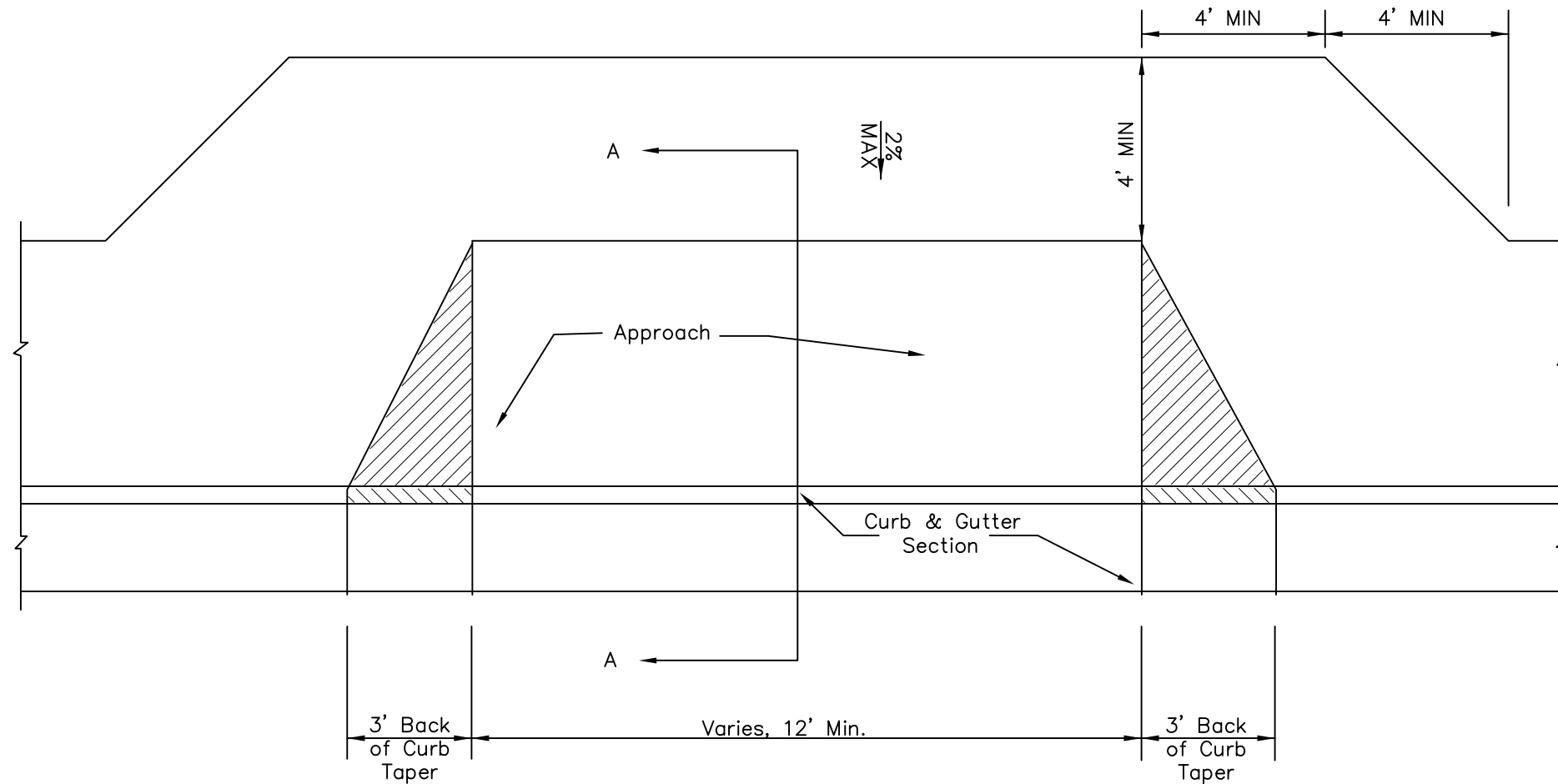
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 STANDARD DRAWINGS

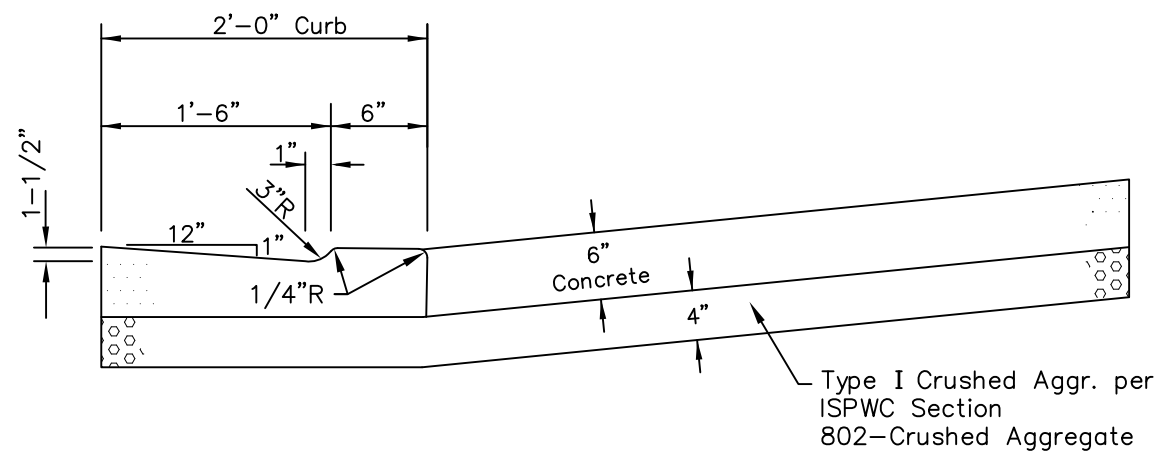
TYPICAL CURB, GUTTER
 & SIDEWALK

18.14.012.A

DRAWING NO.



PLAN



SECTION A-A

NOTES

1. All Driveway Approaches Require Special Approval of the City Engineer Before Construction.
2. Minimum Approach Width for Standard Driveways:

Residential	12 Feet
Joint Use-Residential	30 Feet
Other Zones	20-40 Feet
3. Driveways Over 15 Feet Shall Have Contraction Joints at a maximum of 15 Feet. (15'-30' Driveway Contraction Joint Shall be Centered.)
4. Location at Street Corner:

Residential	- Not Closer Than 10 Feet to the Extended Property Line.
Commercial, Industrial	- Not Closer Than 25 Feet to the Extended Property Line.

TYPICAL CURB CUT & DRIVEWAY APPROACH

N.T.S.

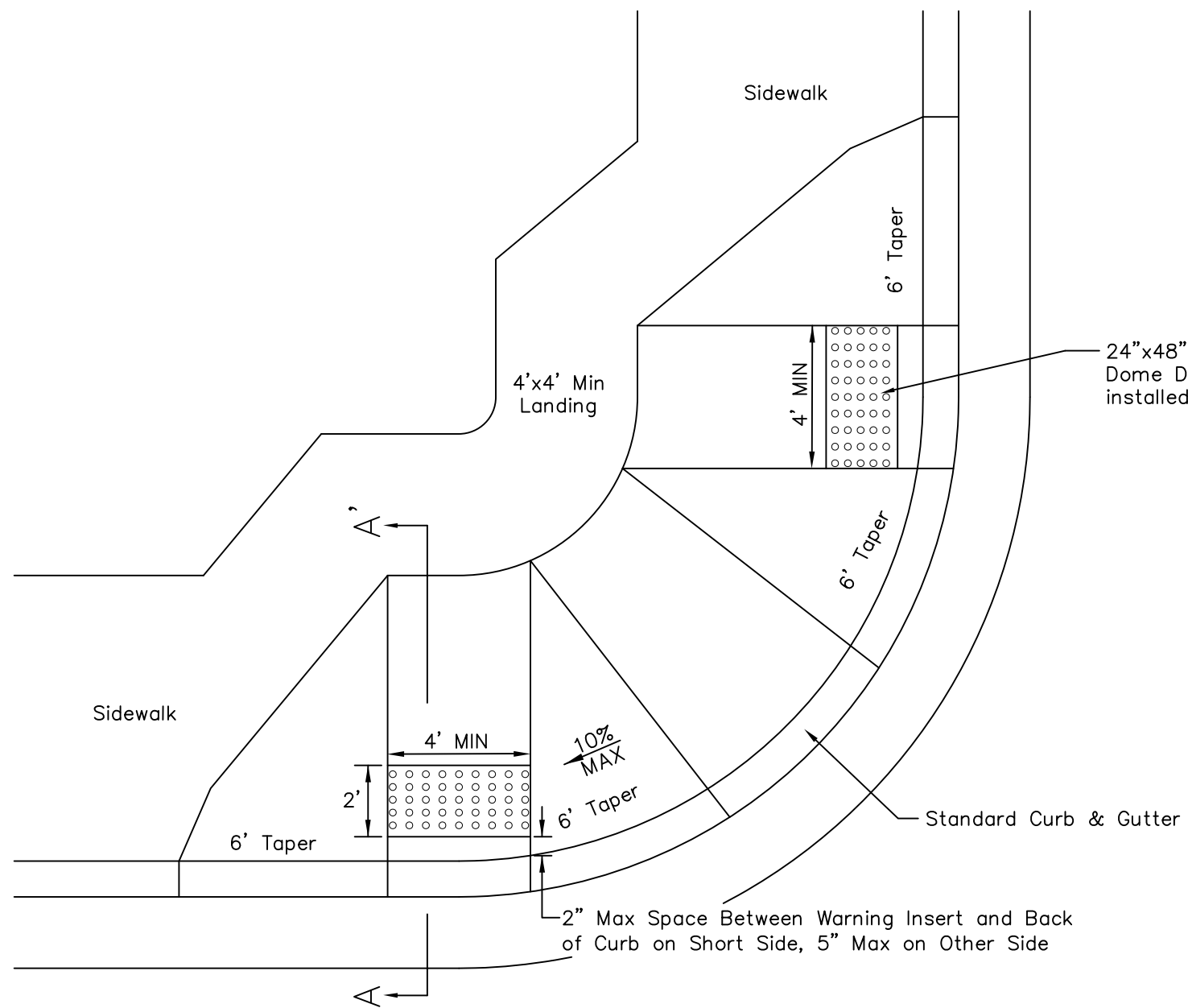
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STANDARD DRAWINGS

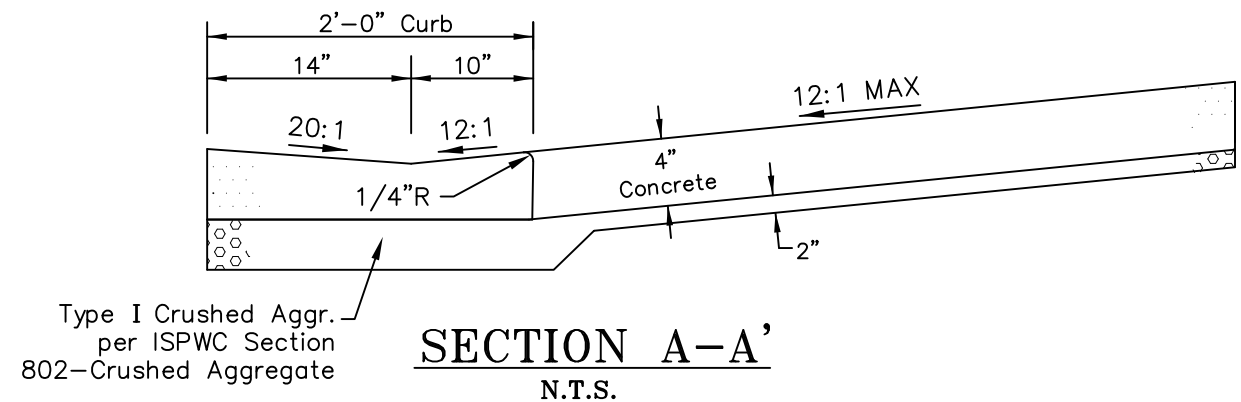
CONCRETE DRIVEWAY
APPROACHES

18.14.012.B

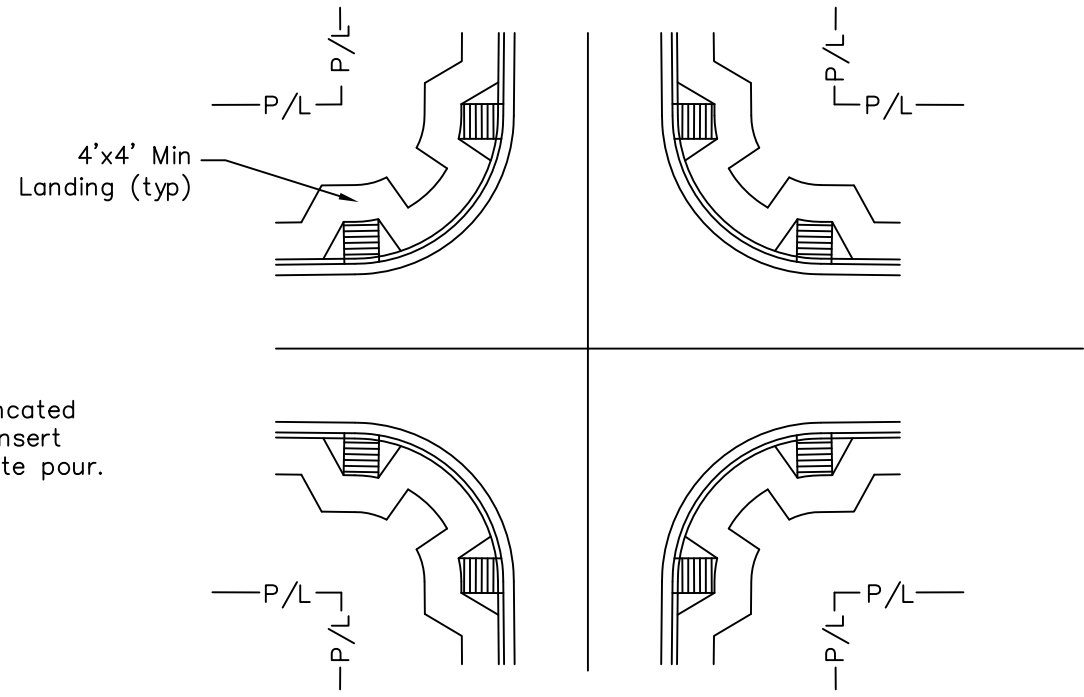
DRAWING NO.



STANDARD CURB CUT RAMP
N.T.S.

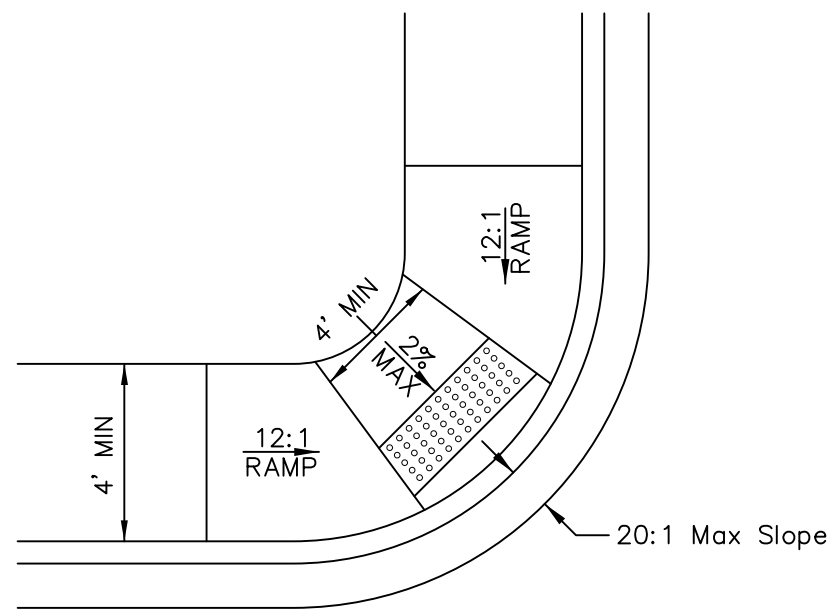


SECTION A-A'
N.T.S.



LOCATION OF TYPICAL PEDESTRIAN RAMPS
N.T.S.

Include Detectable Warning Standard Pre-manufactured Cast-in-place Units (yellow)
Manufacturer: Armor-tile Or Approved Equal Meeting ADA Standards



OPTIONAL CURB CUT RAMP
N.T.S.

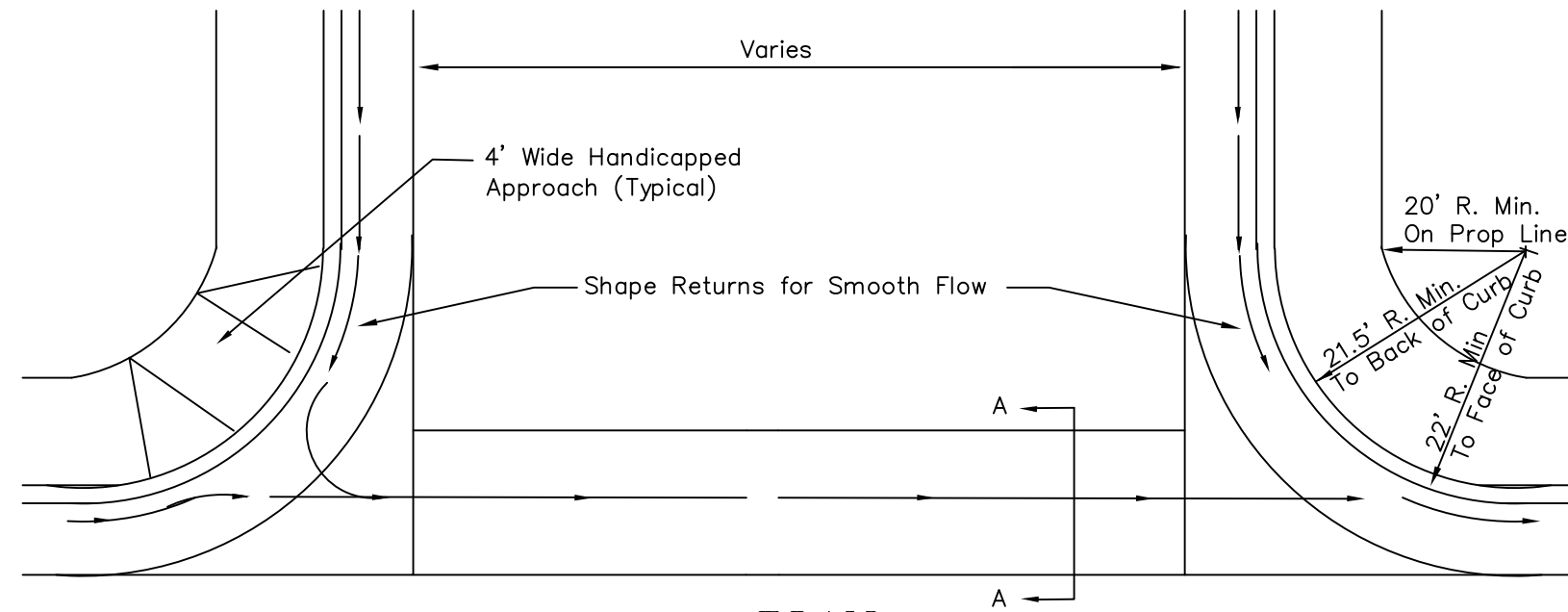
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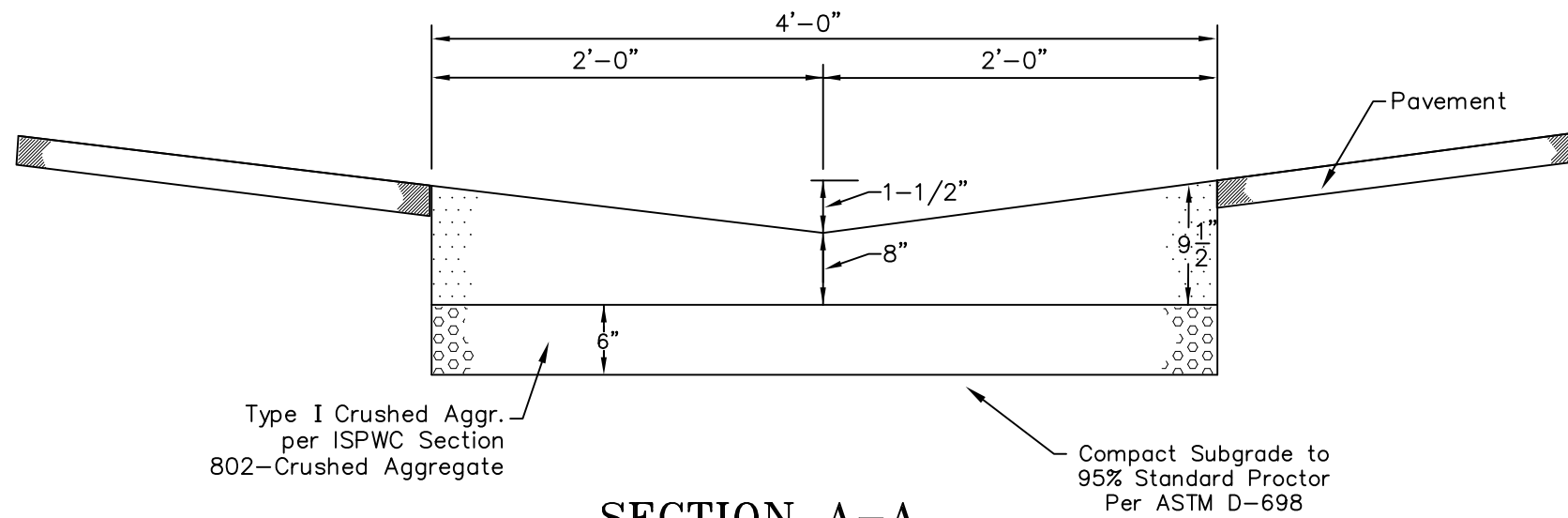
PEDESTRIAN RAMP

18.14.012.C

DRAWING NO.



PLAN



SECTION A-A

NOTE

1. Cross slope of valley gutter to be 20:1 maximum when gutter is within a walkway.

TYPICAL VALLEY GUTTER PLAN

N.T.S.

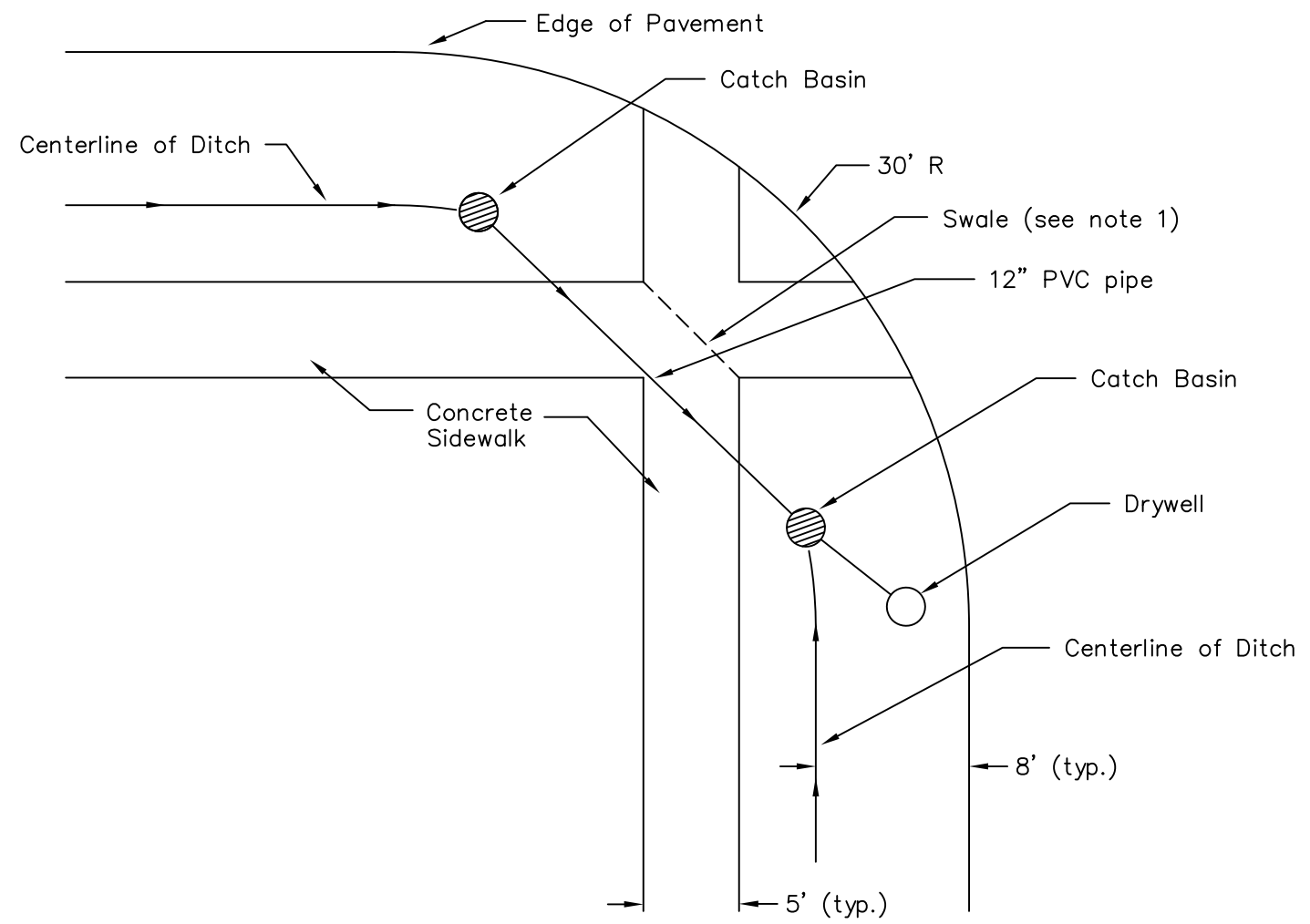
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STANDARD DRAWINGS

TYPICAL VALLEY GUTTER

18.14.012.D

DRAWING NO.

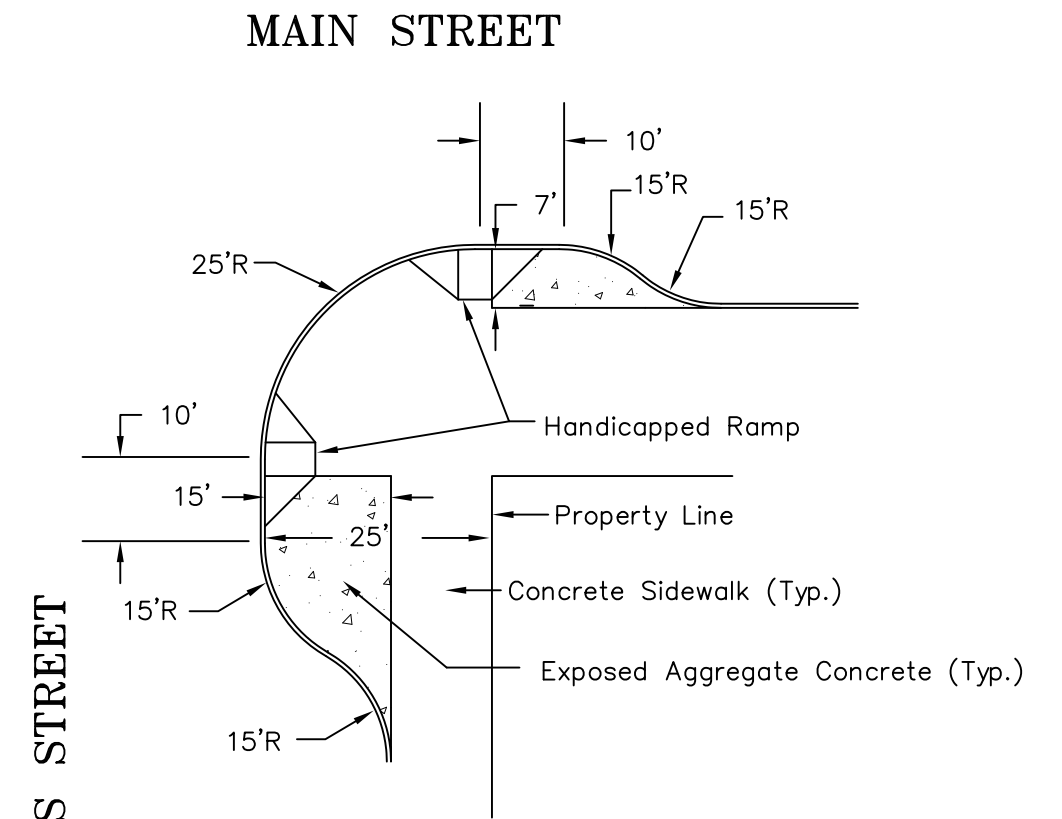


**TYPICAL INTERSECTION DETAILS
IN RESIDENTIAL ZONES**

N.T.S.

NOTES

1. A drainage swale across the sidewalk may be constructed with prior approval by the City Engineer.
2. Sidewalk shall be 2' from property line.



**TYPICAL INTERSECTION DETAILS
BUSINESS ZONE STREETS**

N.T.S.

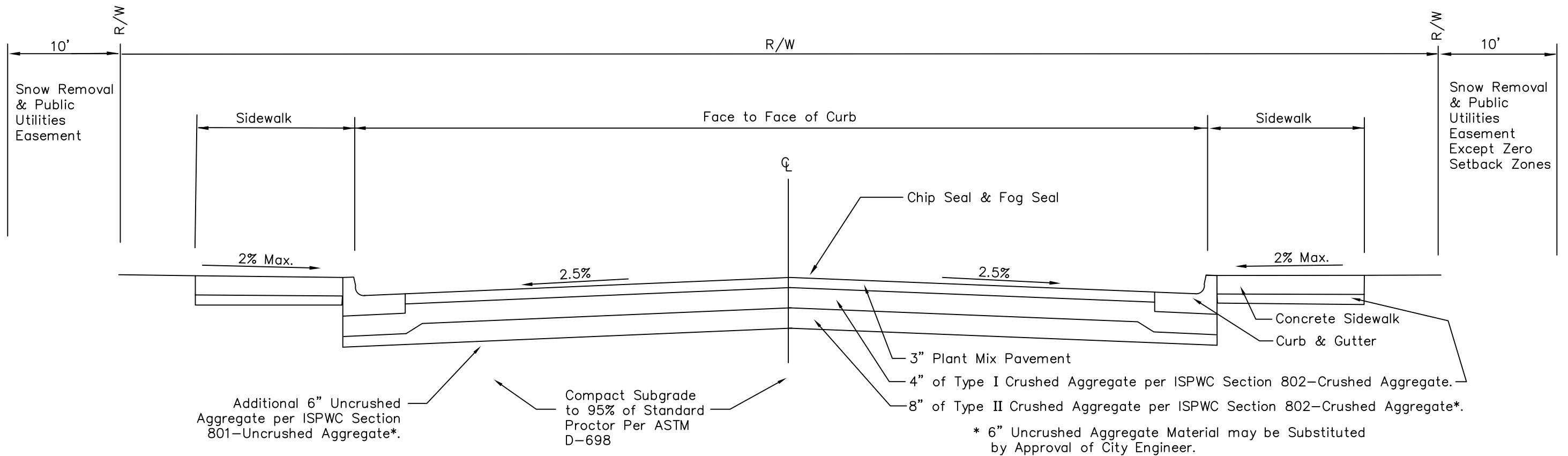
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STANDARD DRAWINGS

SIDEWALKS AT
INTERSECTIONS

18.14.012.E

DRAWING NO.



TYPICAL CURBED STREET SECTION

N.T.S.

NOTES

1. Tolerance for crown slope shall be 0.5%±.
2. Crushed Aggregate shall meet the requirements of the current edition of the ISPWC Standards—Section 802—Crushed Aggregate.
3. Uncrushed Aggregate shall meet the requirements of the current edition of the ISPWC Standards—Section 801—Uncrushed Aggregate.

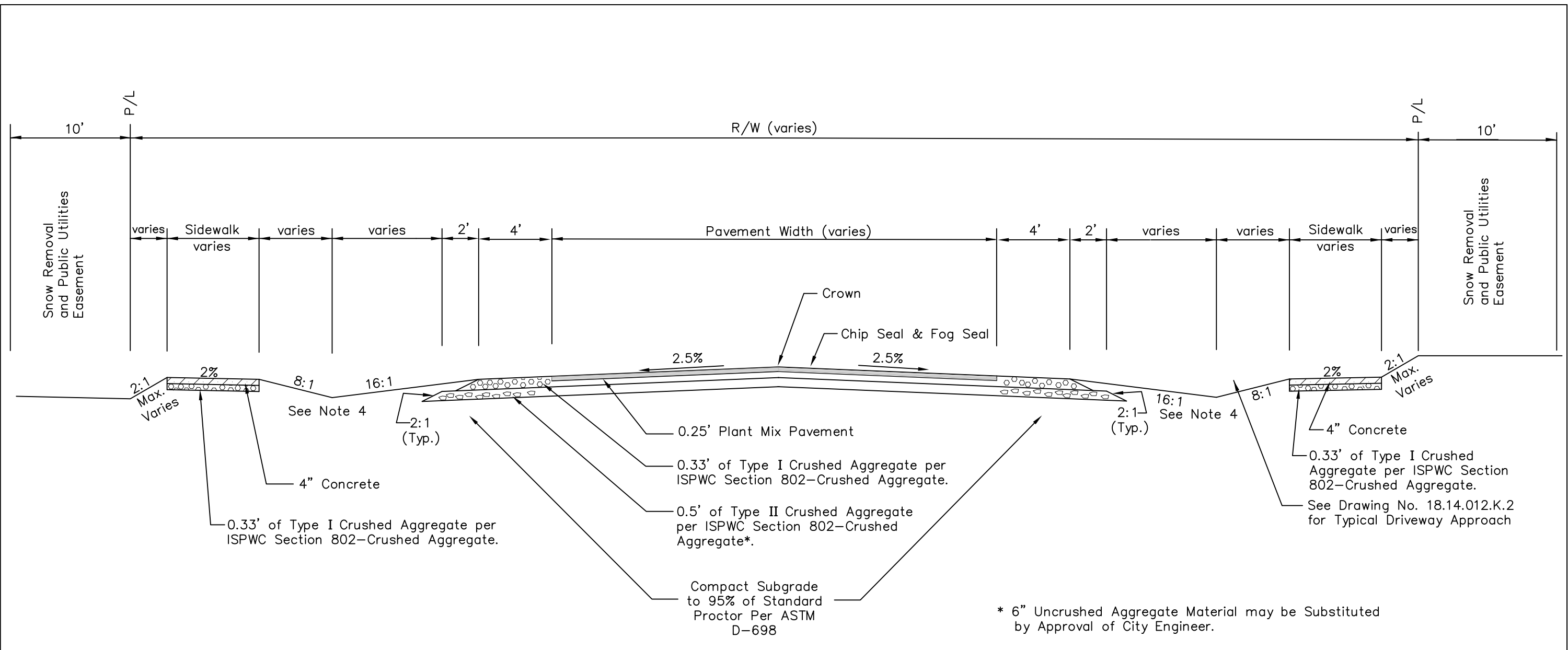
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STANDARD DRAWINGS**

CURBED STREET SECTION

18.14.012.F.1

DRAWING NO.



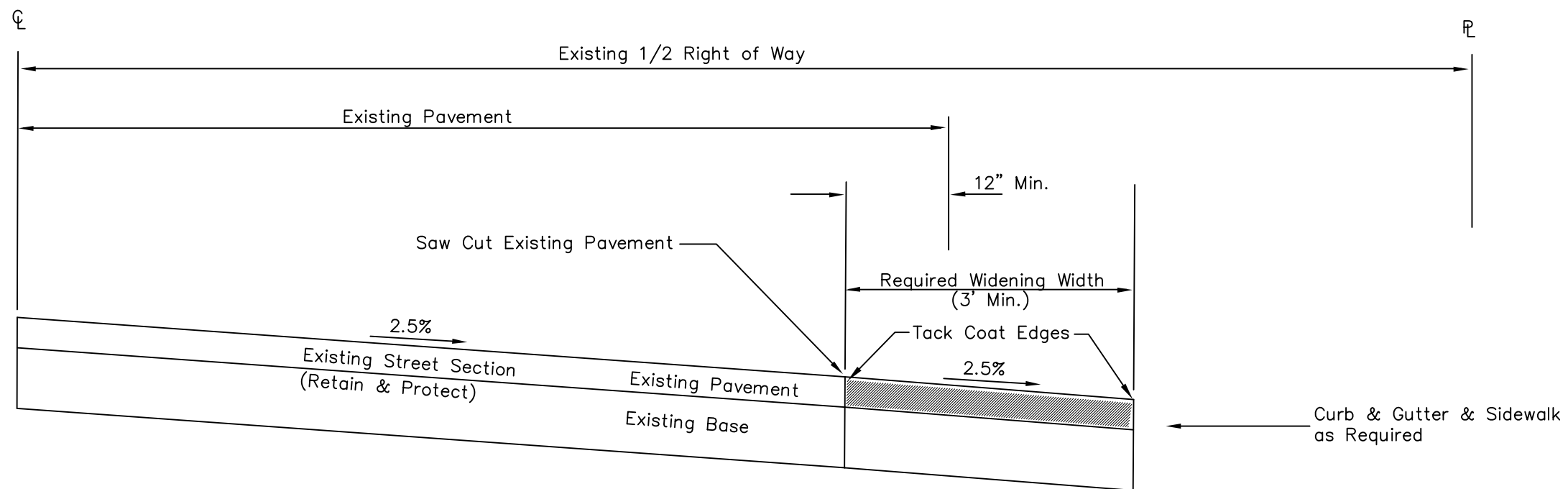
TYPICAL STREET SECTION
N.T.S.

* 6" Uncrushed Aggregate Material may be Substituted by Approval of City Engineer.

NOTES

1. Tolerance for crown slope shall be 0.5%±.
2. Crushed Aggregate shall meet the requirements of the current edition of the ISPWC Standards-Section 802-Crushed Aggregate.
3. Uncrushed Aggregate shall meet the requirements of the current edition of the ISPWC Standards-Section 801-Uncrushed Aggregate.
4. Ditch slopes may vary based upon Approved Construction Plans.

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			DRAWING NO.



TYPICAL STREET WIDENING
N.T.S.

NOTES

1. Asphalt match shall drain toward edge of pavement or concrete curb and shall have a cross slope of 2.5%±0.5%. Cross slope of 4% maximum may be allowed with prior approval by City Engineer.
2. Existing asphalt shall be sawcut to a neat straight line parallel and/or perpendicular to the centerline of the street. Edges shall be sealed with an asphalt tack coat before paving.

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STANDARD DRAWINGS

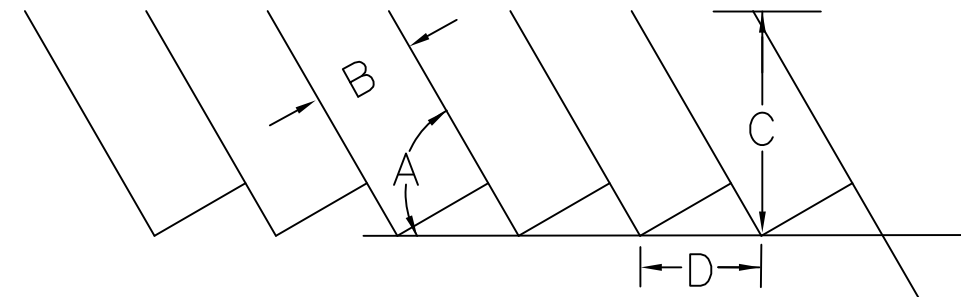
STREET WIDENING

18.14.012.G

DRAWING NO.

PARKING TABLES

A	B	C	D
0°	10'0"	10.0	25.0
60°	10'0"	20	11.5
90°	10'0"	21.0	10.0



PARKING PLAN LAYOUT

N.T.S.

- A. PARKING ANGLE
- B. STALL WIDTH
- C. STALL TO CURB
- D. CURB LENGTH PER CAR

REVISIONS

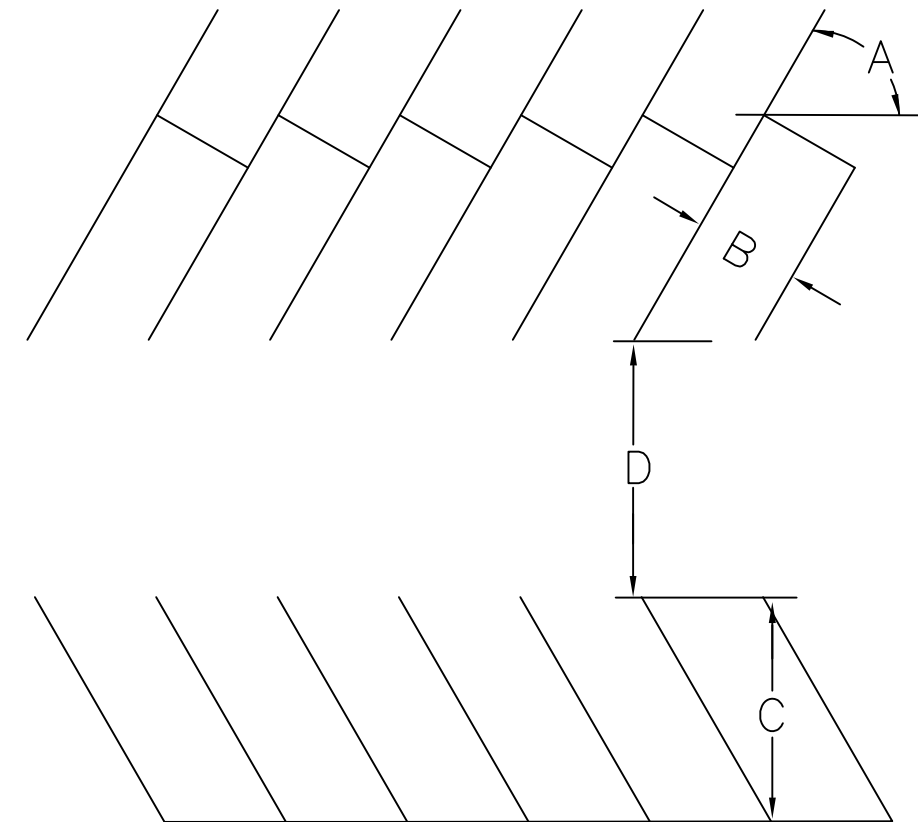
2012 CITY OF HAILEY
STANDARD DRAWINGS

ON-STREET PARKING
STANDARDS

18.14.012.H.1

DRAWING NO.

ON-SITE PARKING DIMENSIONS (shown in feet)			
Parking Angle (A)	Stall Width (B)	Stall Depth (C)	Aisle Width (D)
90	9	18	24
30	9	20	11
45	9	20	13
60	9	21	18
Parallel	8	22	N/A
ADA	11 (+5 for ADA aisle)	same as above	same as above
Compact	8	16	same as above



PARKING PLAN LAYOUT

N.T.S.

- A. PARKING ANGLE
- B. STALL WIDTH
- C. STALL DEPTH
- D. AISLE WIDTH

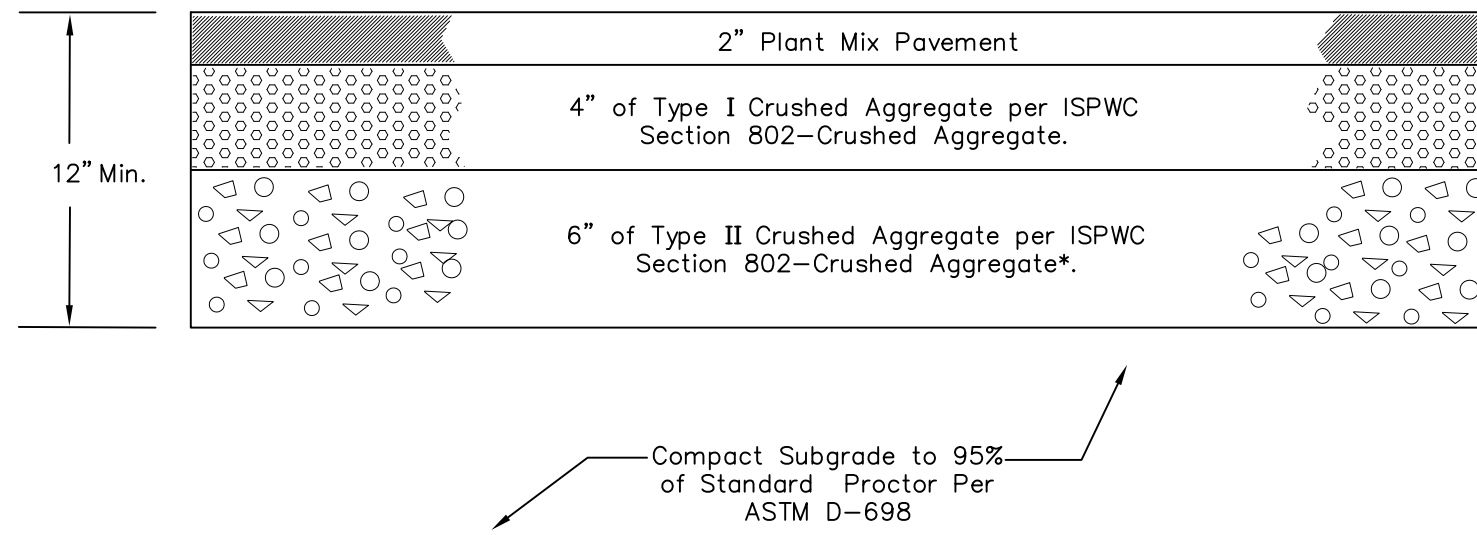
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2012 CITY OF HAILEY
STANDARD DRAWINGS

ON-SITE PARKING
STANDARDS

18.14.012.H.2

DRAWING NO.



TYPICAL PARKING LOT SECTION
N.T.S.

* 6" Uncrushed Aggregate Material may be Substituted
by Approval of City Engineer.

NOTES

1. This Standard is the not to be Constructed in the Public Right-of-Ways.
2. Minimum Asphalt & Aggregate Base Thickness may Increase Due to Soil Condition & Type of use. Actual Thickness Shall be Designed by Engineer Based on Traffic Index and 'R' Value of Subgrade Soils and Approved by City Engineer.
3. Parking Finished Grades 0.75% Minimum, with 1% Recommended.
4. When Grades Less than 1% are used, Special Procedures Will be used as Directed by City Engineer.
5. LI and SCI-I Zones May Substitute Plant Mix with Dust Control Material.
6. Crushed Aggregate shall meet the requirements of the current edition of the ISPWC Standards—Section 802—Crushed Aggregate.
7. Uncrushed Aggregate shall meet the requirements of the current edition of the ISPWC Standards—Section 801—Uncrushed Aggregate.

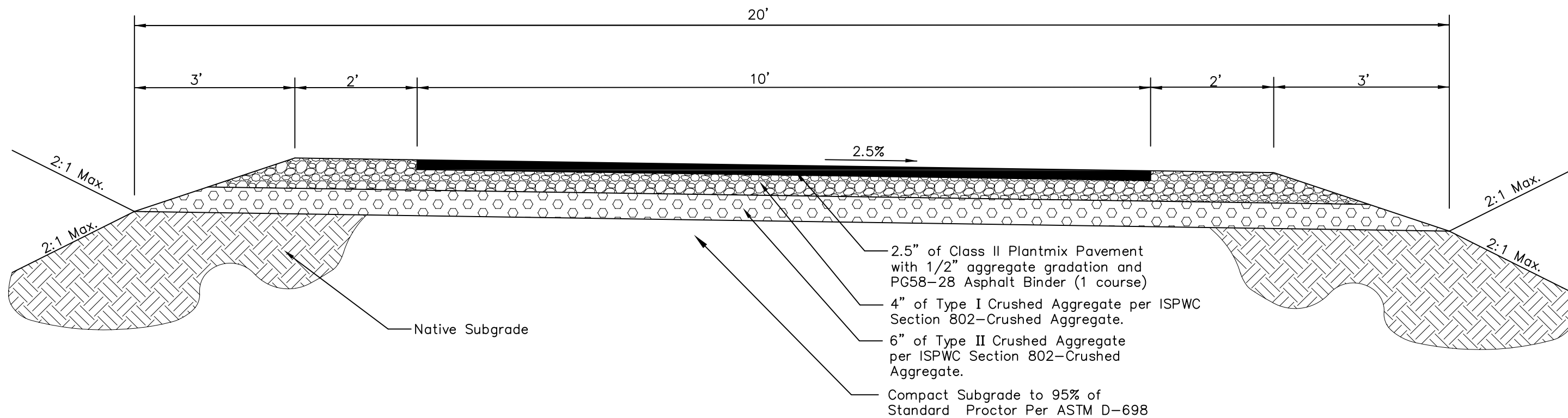
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2012 CITY OF HAILEY
STANDARD DRAWINGS

TYPICAL PARKING LOT
SECTION

18.14.012.I

DRAWING NO.



TYPICAL PATHWAY SECTION

N.T.S.

NOTES

1. Tolerance for crown slope shall be 0.5%±.
2. Crushed Aggregate shall meet the requirements of the current edition of the ISPWC Standards-Section 802-Crushed Aggregate.

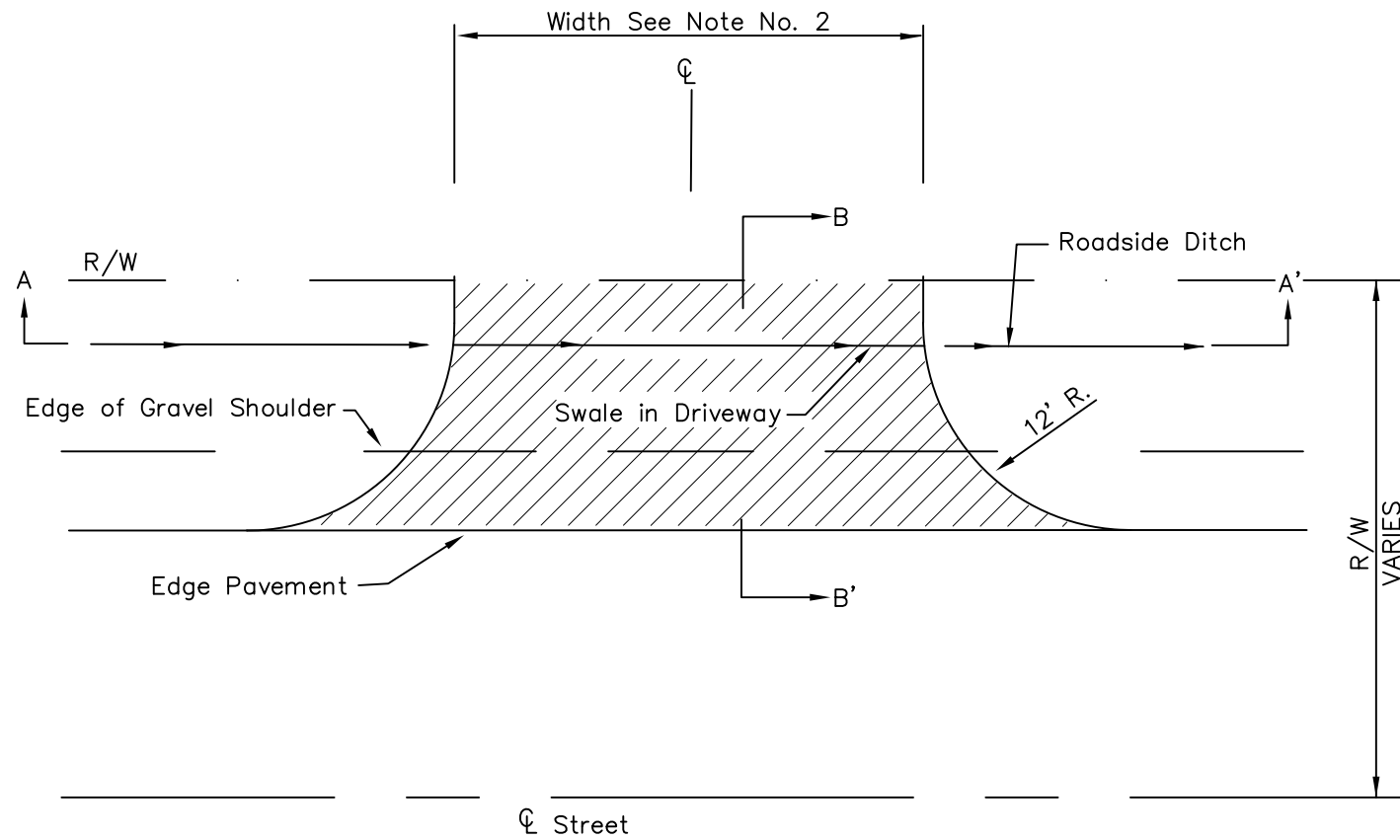
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2012 CITY OF HAILEY
STANDARD DRAWINGS

SHARED USE PATH

18.14.012.J

DRAWING NO.



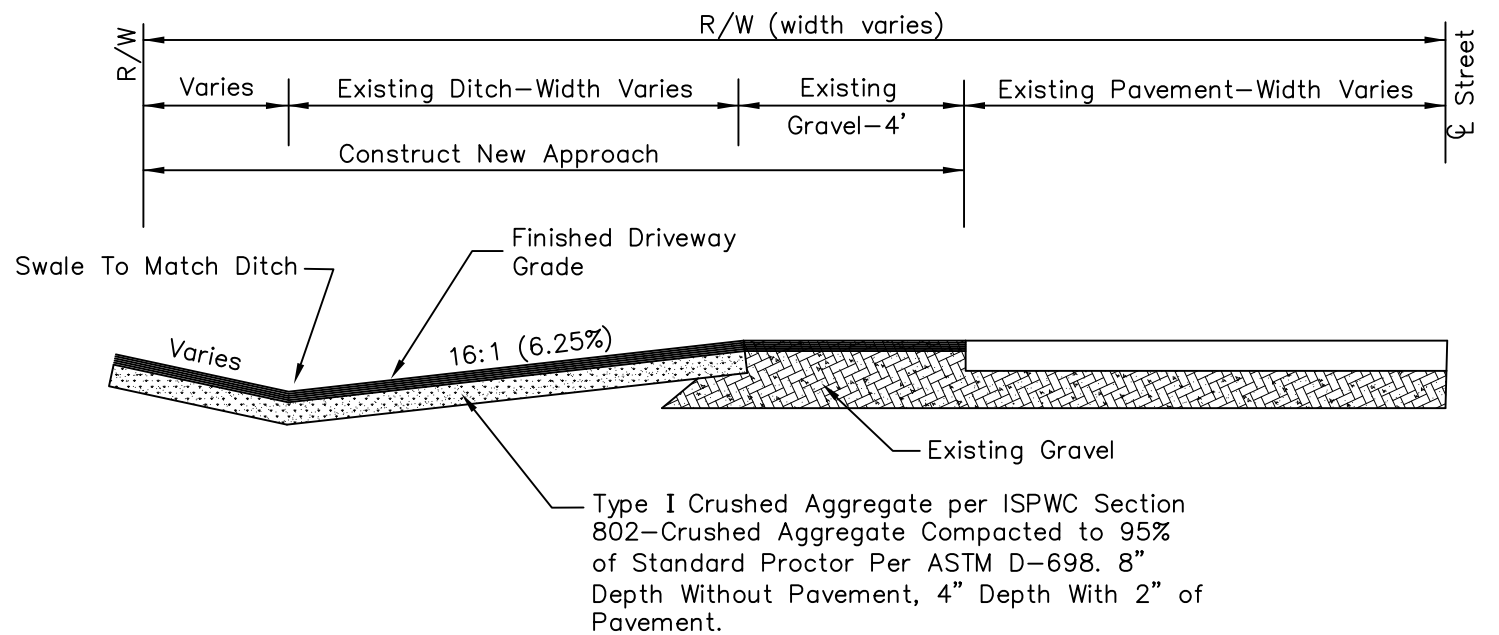
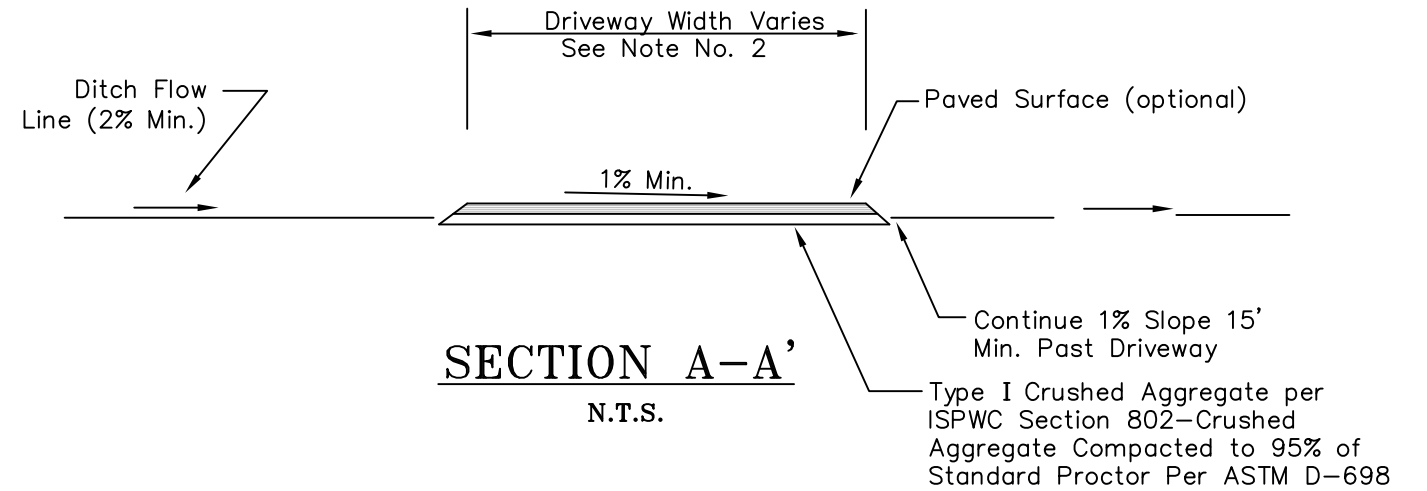
TYPICAL DRIVEWAY APPROACH

N.T.S.

NOTES

- All driveway approaches require special approval of the City Engineer before construction. A culvert may be substituted for the swale with prior approval. Minimum culvert size shall be 12" diameter.
- Minimum approach width for standard driveways:

Residential	12-20 feet
Joint use	30 feet
Other zones	20-40 feet
- Driveway approaches to be the responsibility of the developer or lot owner.
- Residential approaches shall not be constructed closer than 10 feet from extended Property lines.
- Individual lot owners are responsible for maintenance of driveway and driveway shoulder.
- Crushed aggregate shall meet the requirements of the current edition of the ISPWC standards—section 802—crushed aggregate.



SECTION B-B'

N.T.S.

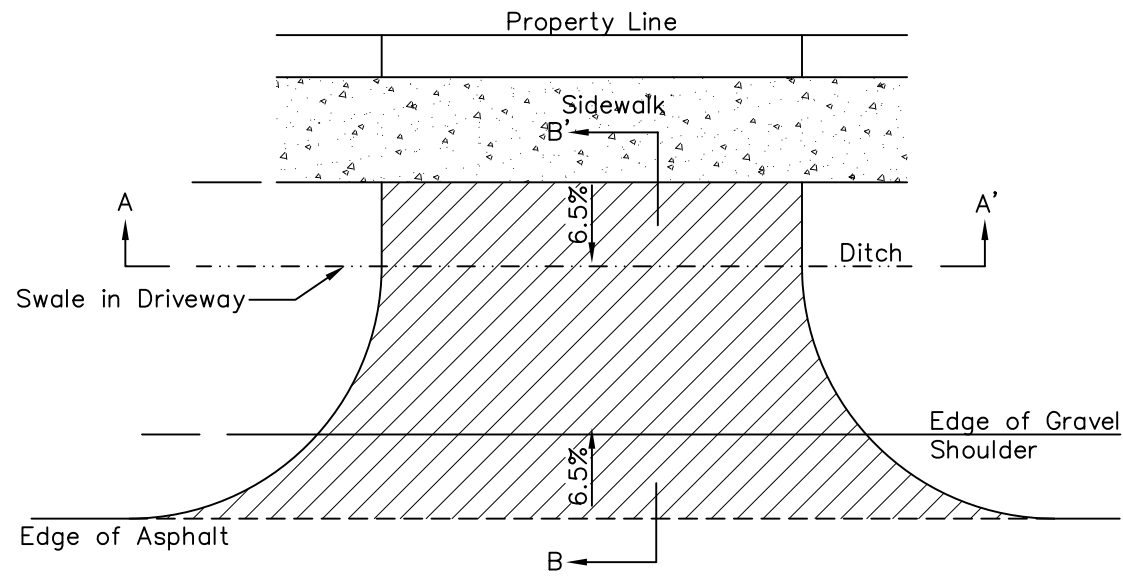
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STANDARD DRAWINGS

DRIVEWAY APPROACH
WITHOUT SIDEWALK

18.14.012.K.1

DRAWING NO.



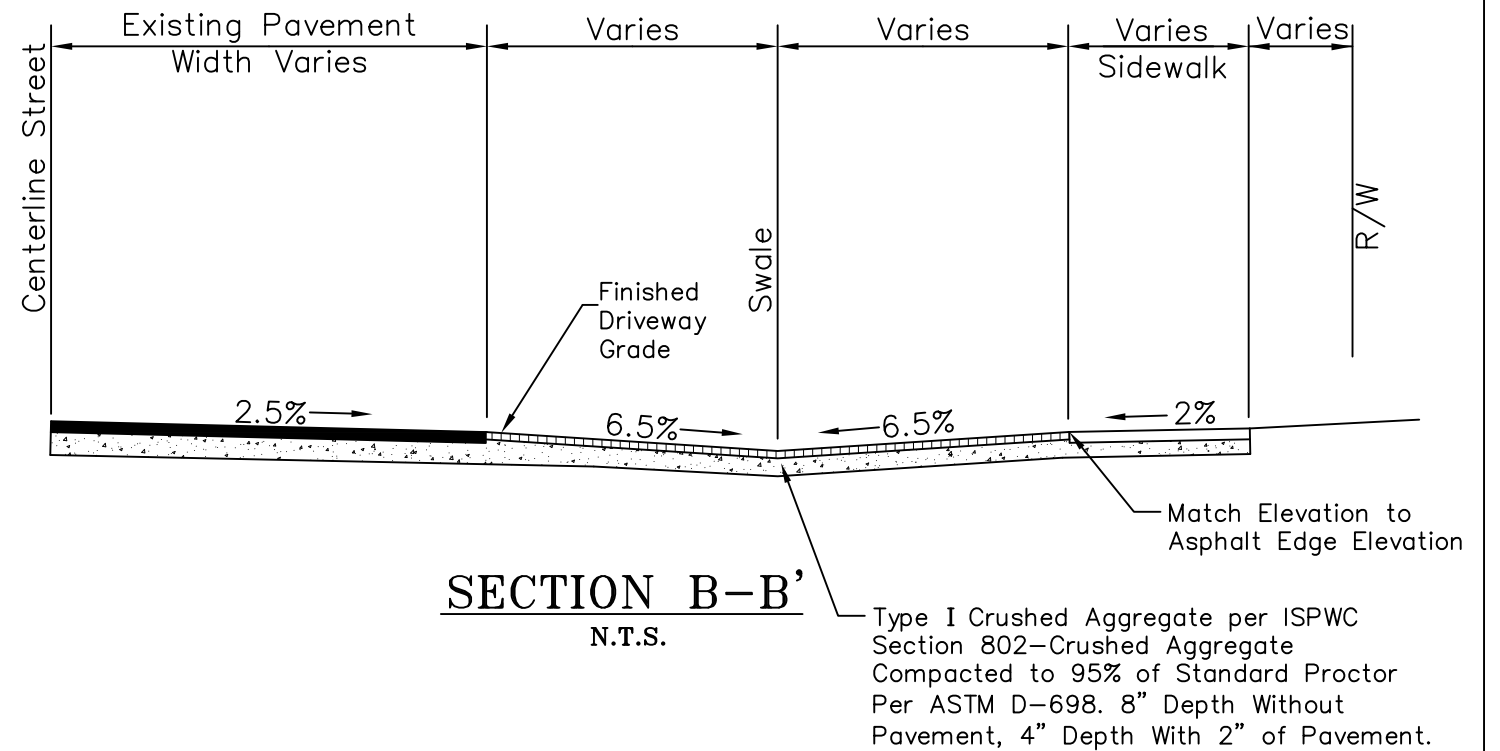
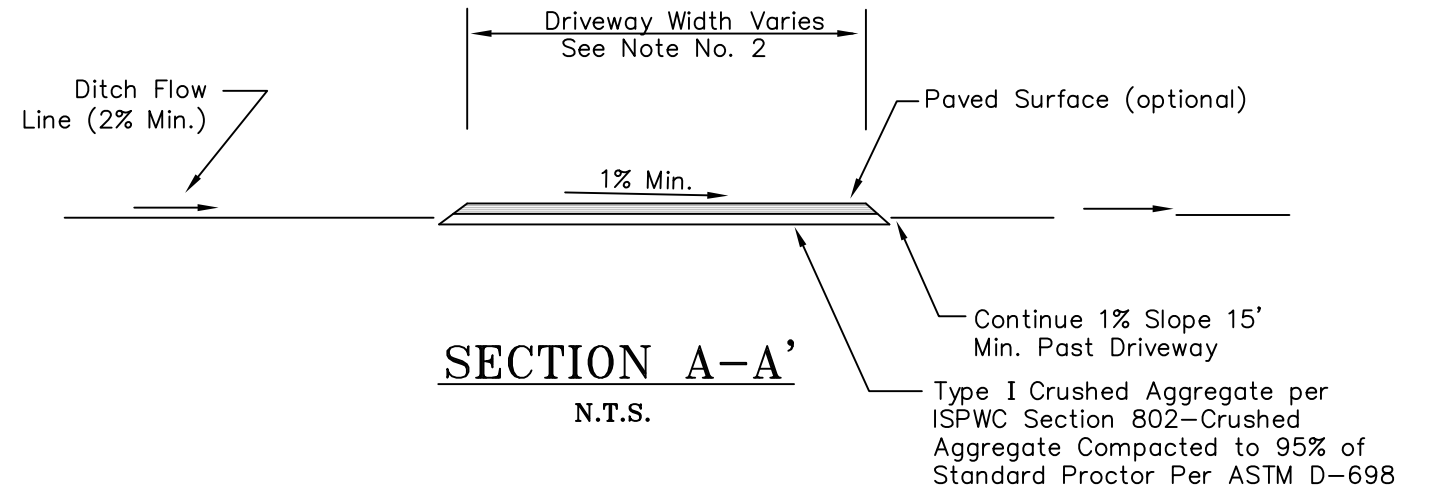
TYPICAL DRIVEWAY APPROACH

N.T.S.

NOTES

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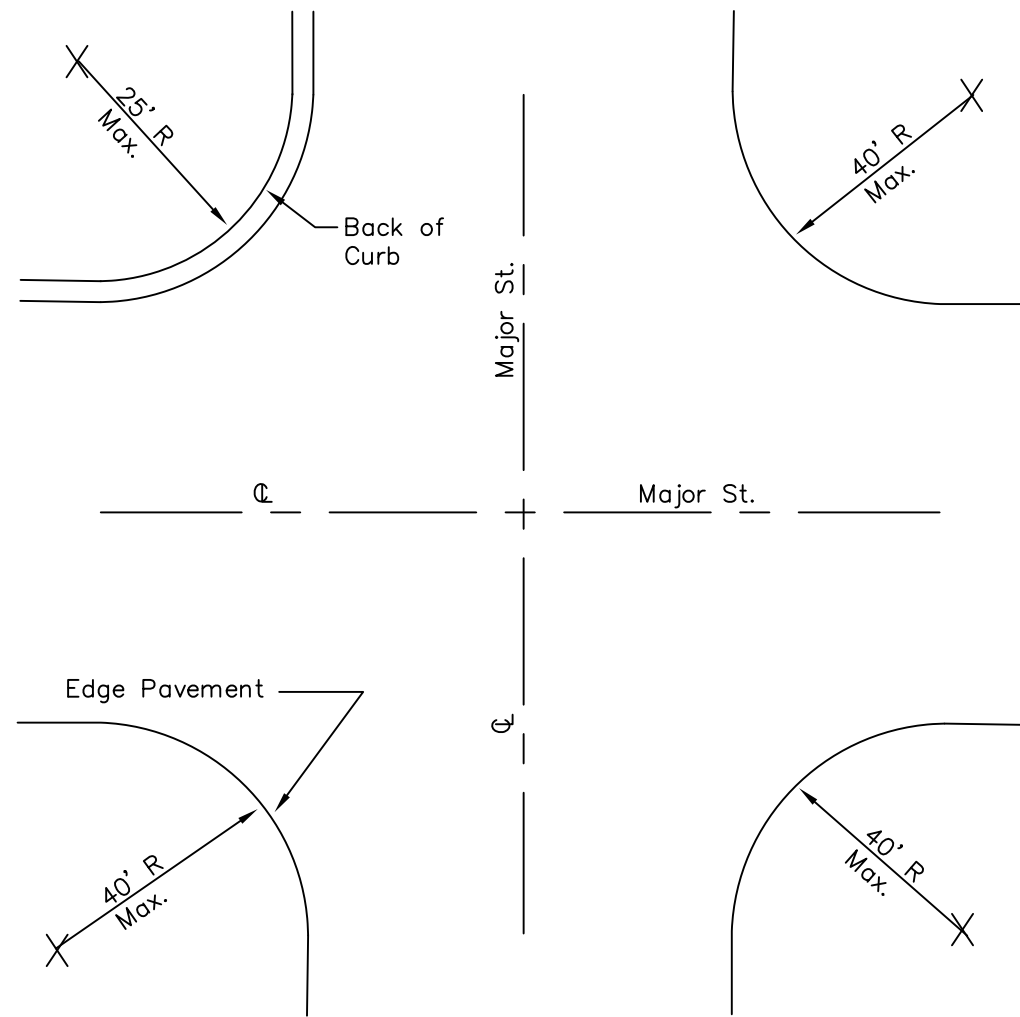
DRIVEWAY APPROACH
WITH SIDEWALK

18.14.012.K.2

DRAWING NO.

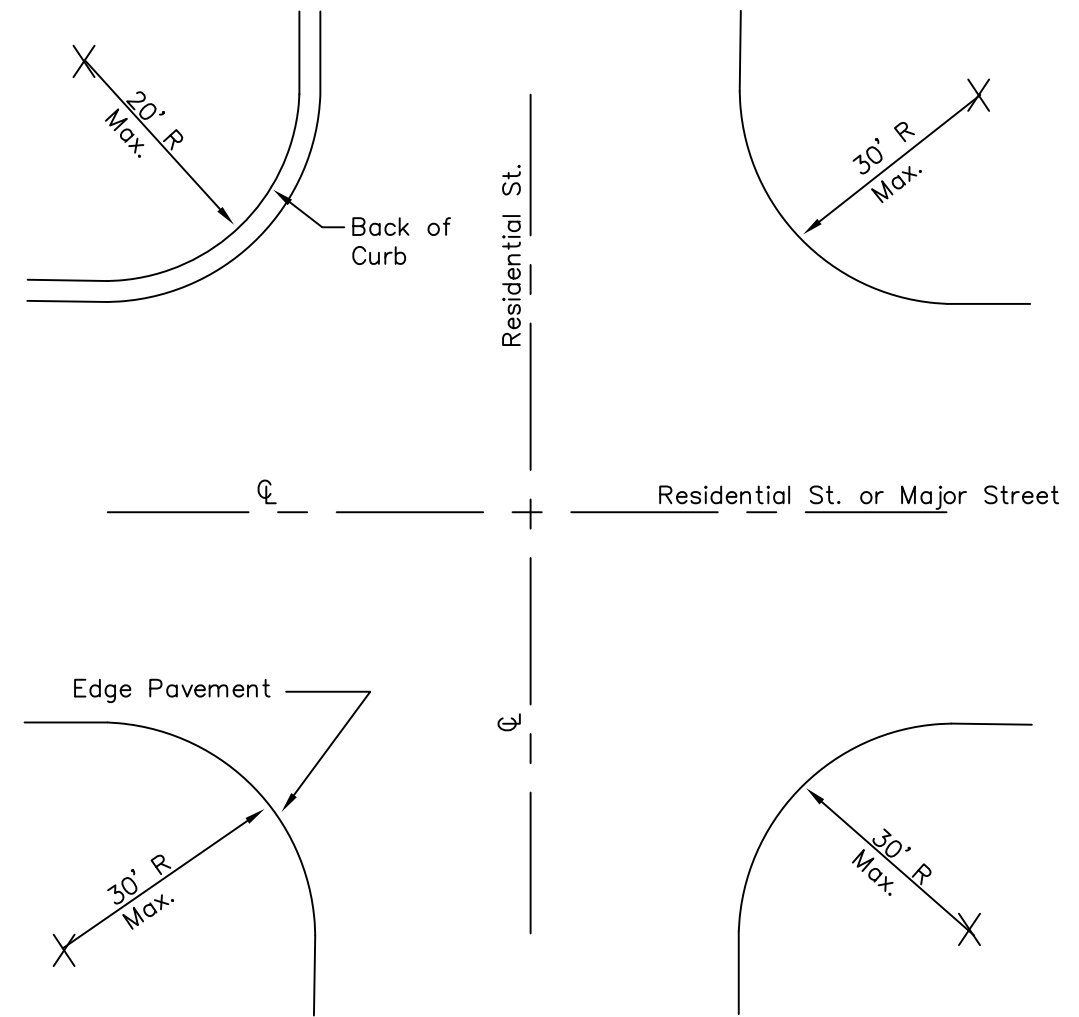
NOTES

1. A Major Street is considered to be all streets except those in residential developed areas.
2. Radii at intersections for Major Streets may vary due to various design vehicles & turning movements as determined by the engineer.



MAJOR STREET INTERSECTION

N.T.S.



RESIDENTIAL STREET INTERSECTION

N.T.S.

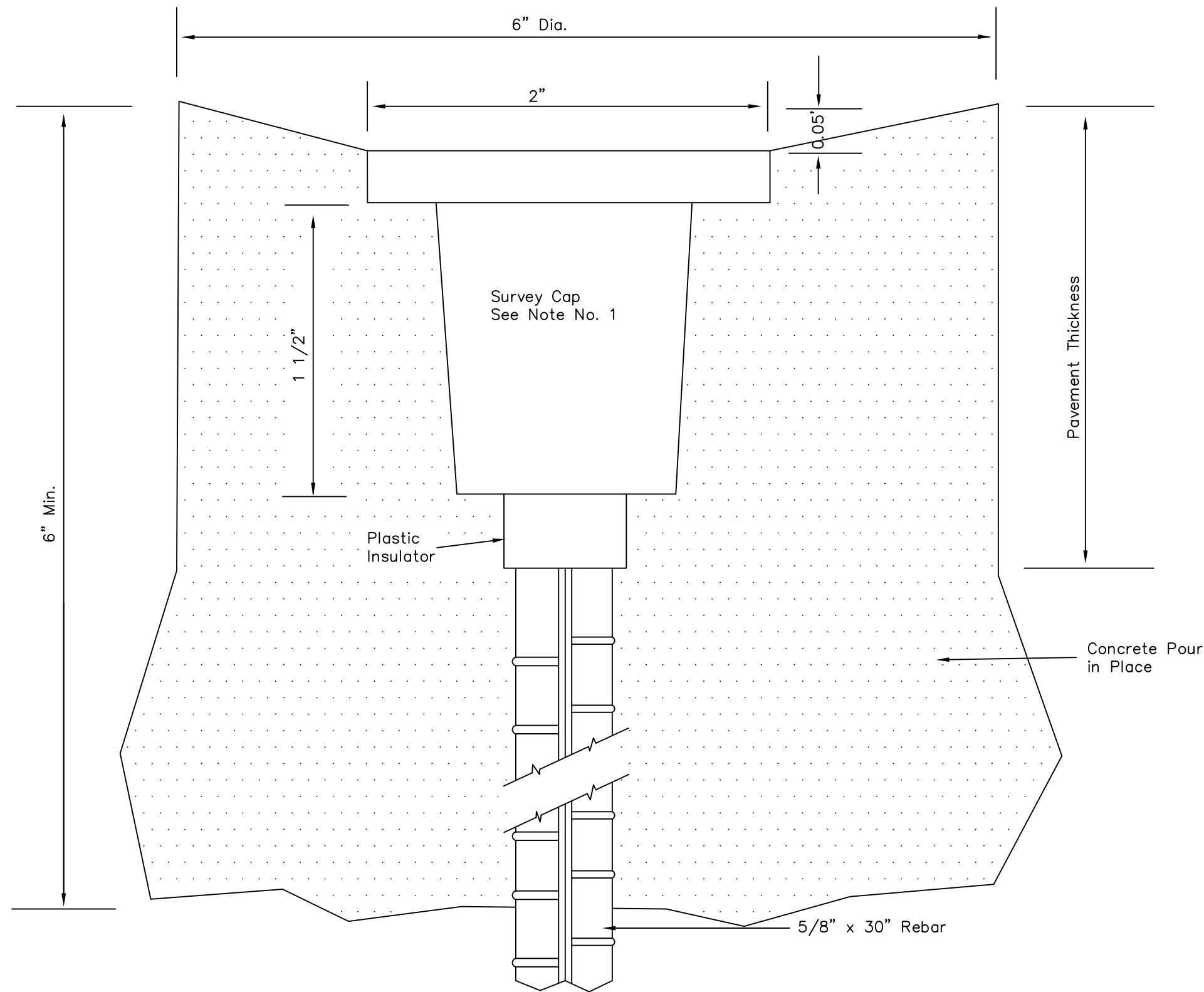
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STANDARD DRAWINGS

STREET RADIUS

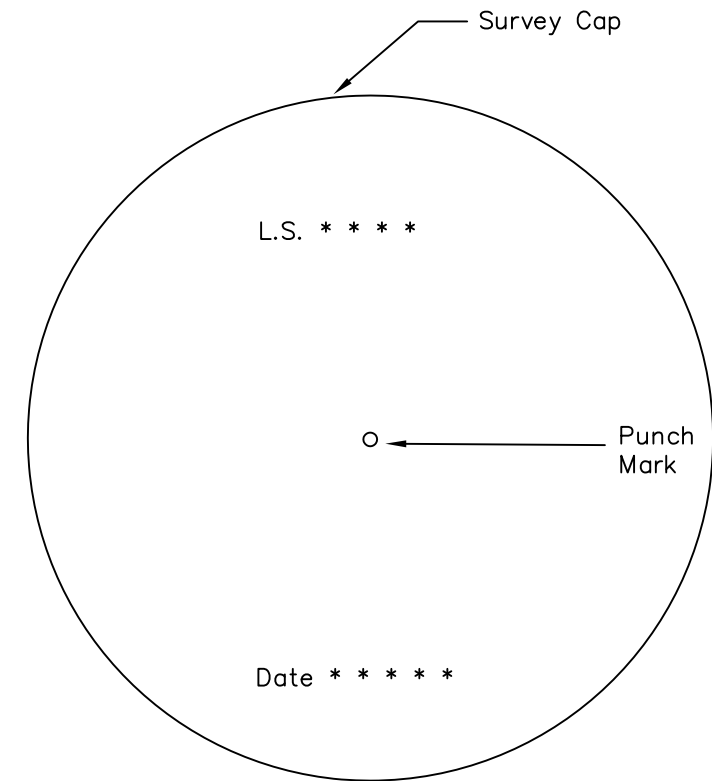
18.14.012.L

DRAWING NO.



**TYPICAL SECTION
SURVEY CAP FOR REBAR
(TYPE I)**

N.T.S.



PLAN

N.T.S.

NOTES

1. Cap shall be 2" 6000 aluminum model ft series as manufactured by Berntsen International, INC., or approved equal.
2. Type I monuments shall be set at all section corners, 1/4 corners, 1/16 corners and all other survey monuments required by State of Idaho Platting and Record of Survey Codes which fall within improved street sections. For new development, monuments shall be set after the street paving is completed.

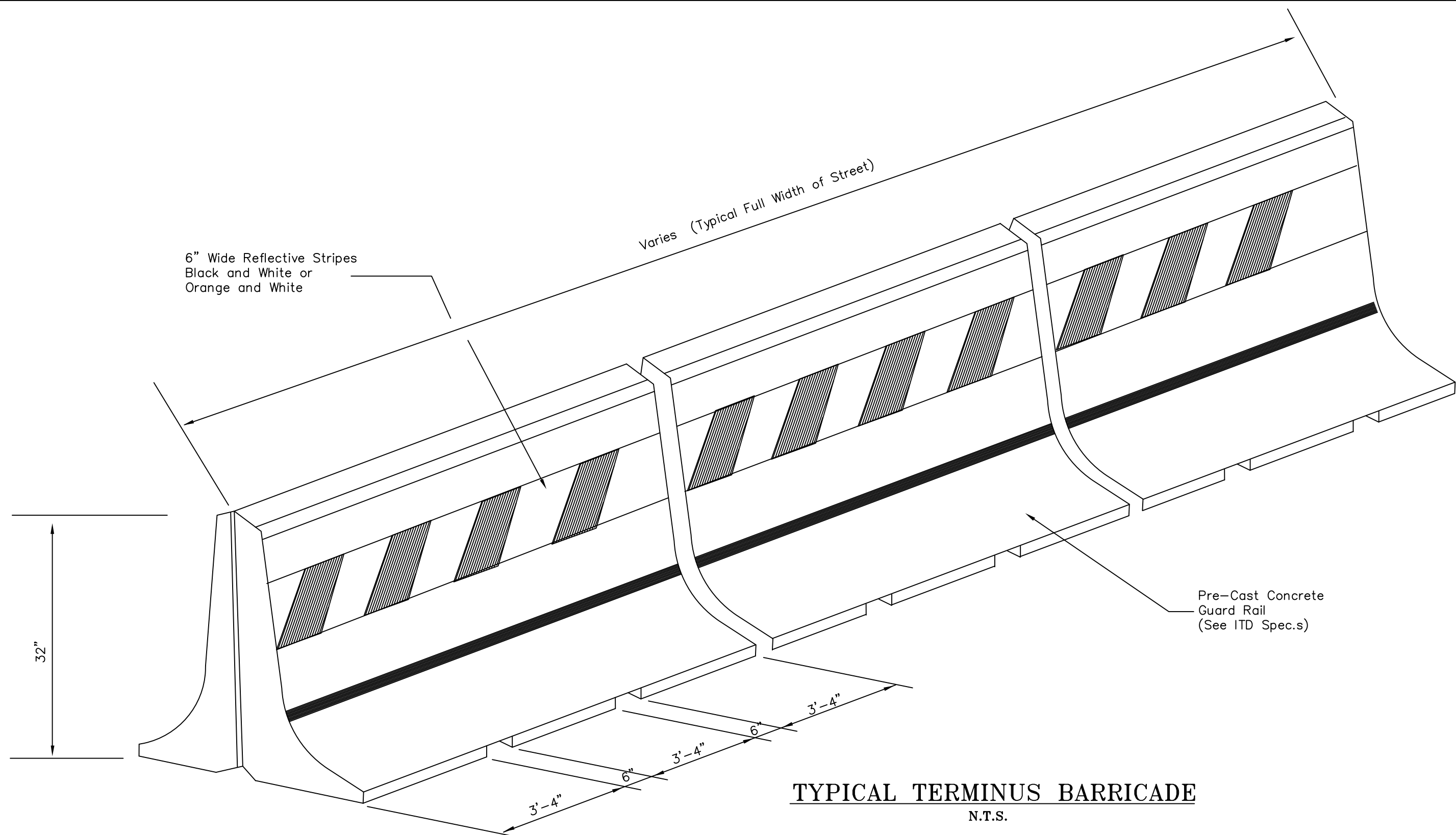
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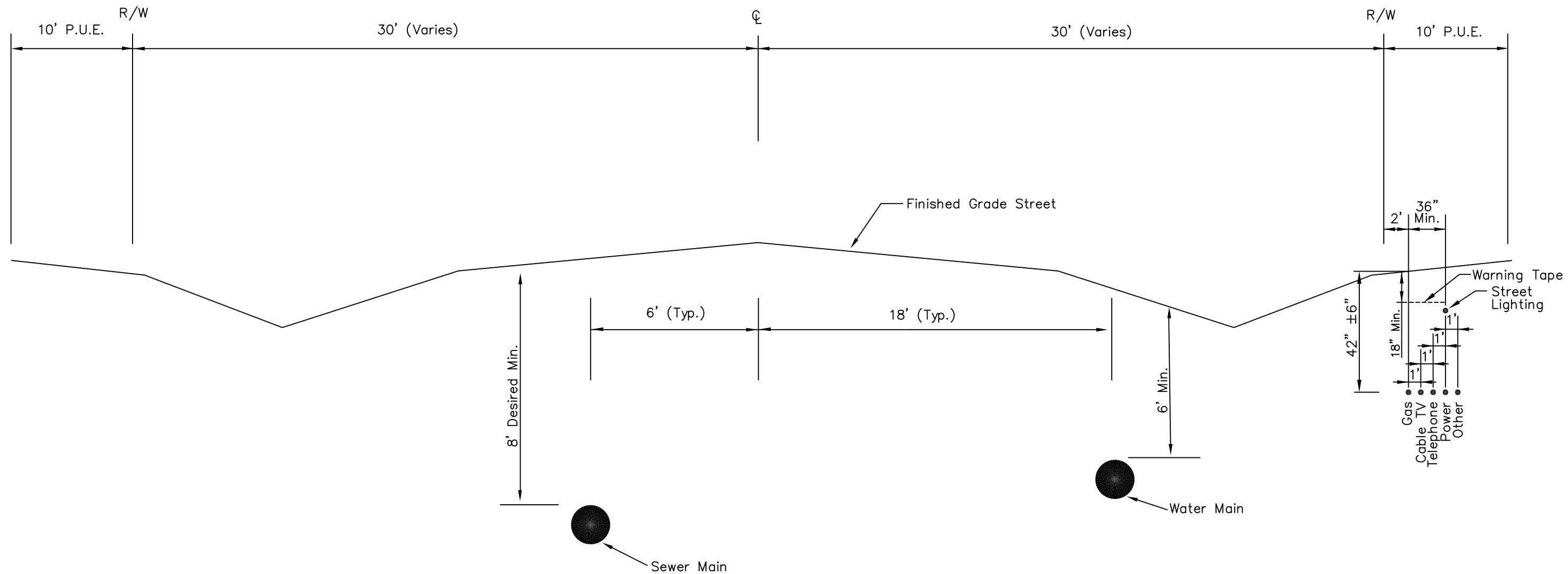
TYPE I SURVEY MONUMENTS

18.14.014.A

DRAWING NO.



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**TYPICAL RESIDENTIAL LOCATIONS FOR
UTILITY DISTRIBUTION FACILITIES**

N.T.S.

NOTES

1. This Typical Section is the desired layout for a new development.
2. Owner/Developer shall show all proposed utility locations on the Approved Construction Plan.
3. Power transformer boxes & telephone risers are to be located at lot corners not common with water services.

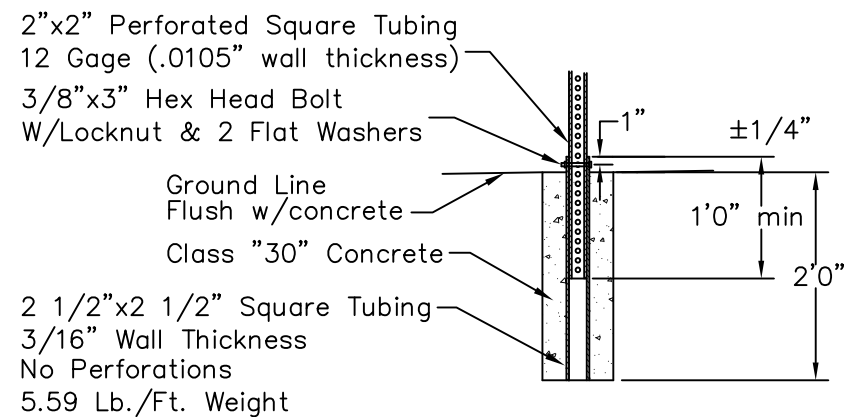
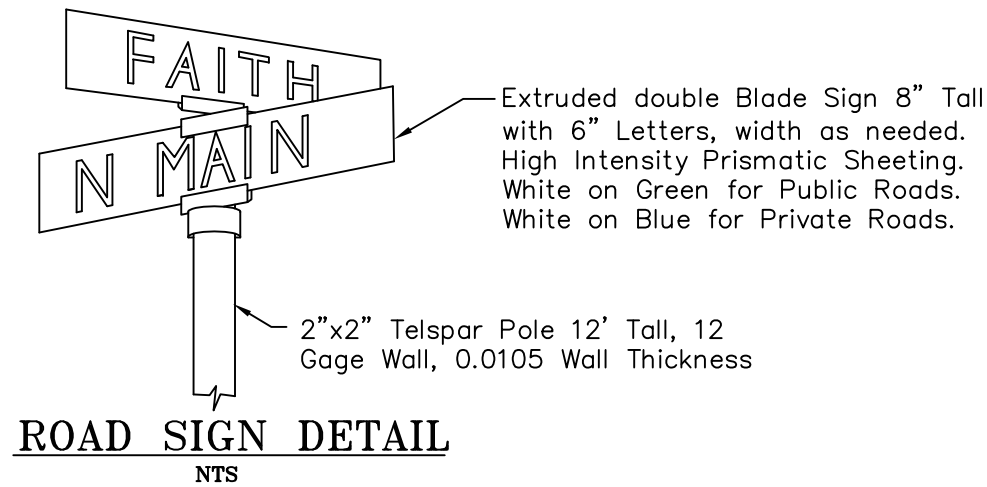
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STANDARD DRAWINGS**

TYPICAL UTILITY LOCATIONS

18.14.014.C

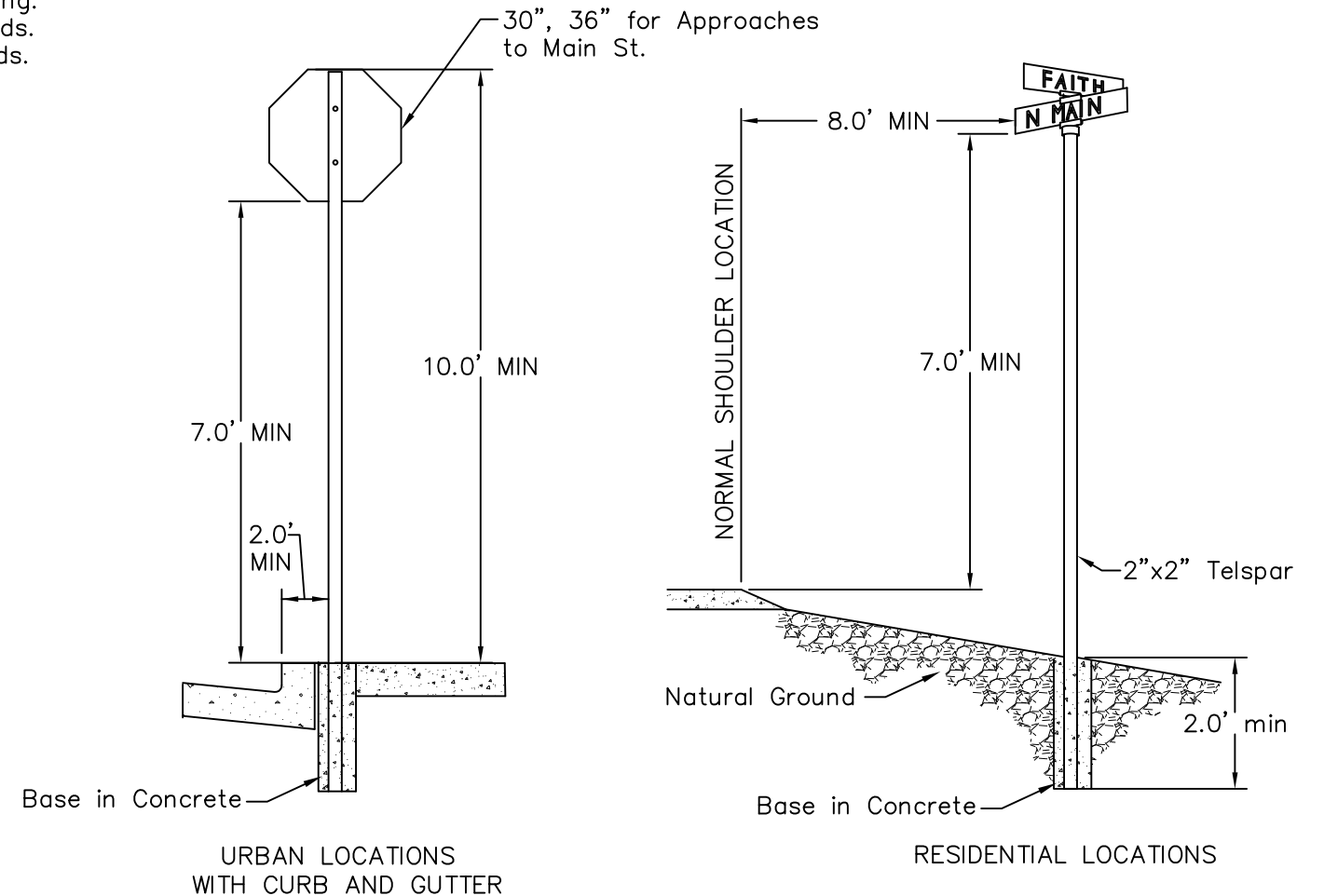
DRAWING NO.



**SIGN POST INSTALLATION DETAIL
WITH ONE PIECE ANCHOR POST
FOR USE IN CONCRETE SIDEWALKS**
NTS

NOTES:

- 1). Anchor sleeves shall be installed so that the holes will align and the top be flush with the sign post anchor.
- 2). All installations shall have 8" square concrete foundations or grouted into solid rock.



TYPICAL INSTALLATION FOR SIGNS
NTS

NOTES:

1. Telspar post to be used in all locations.
2. All street signs shall be in accordance with the current edition of the Manual for Uniform Traffic Control Devices.
3. Sign placement shall be per Approved Construction Plans.
4. High intensity prismatic sheeting to be used on all signs.

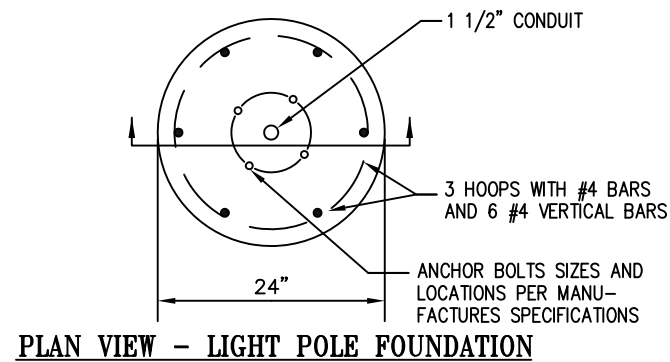
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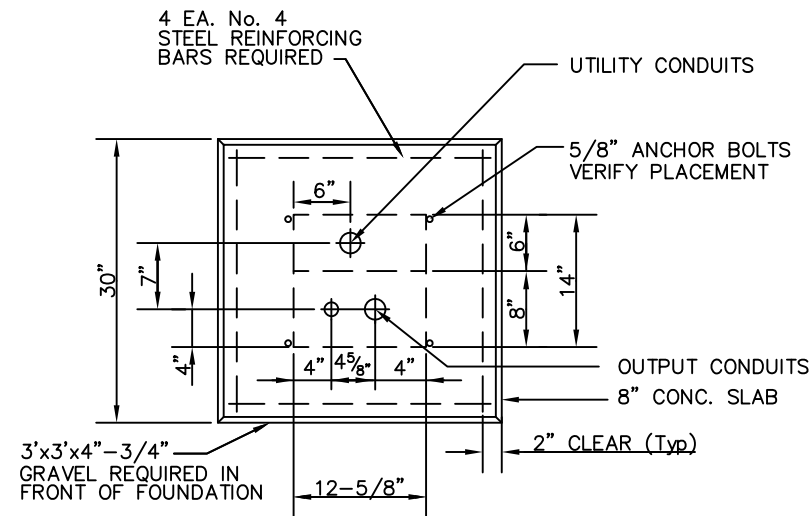
STREET SIGNS

18.14.014.D

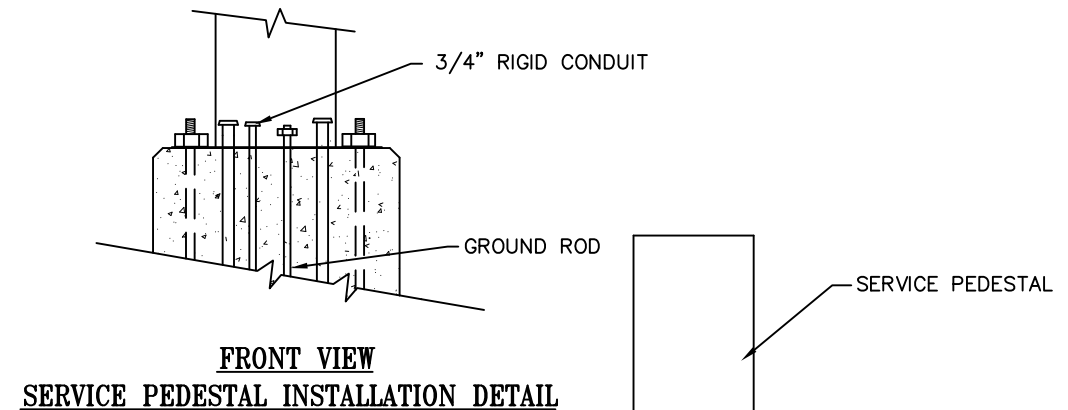
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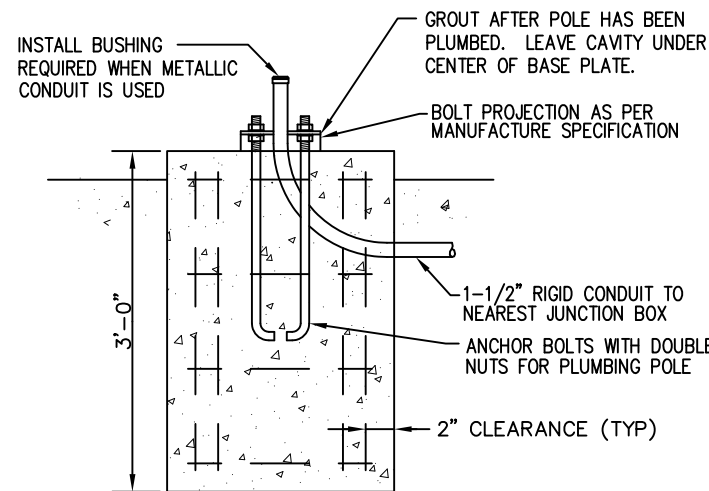
PLAN VIEW - LIGHT POLE FOUNDATION



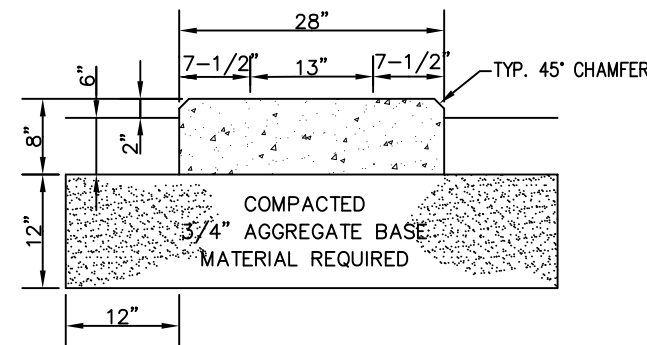
TOP VIEW - SERVICE PEDESTAL



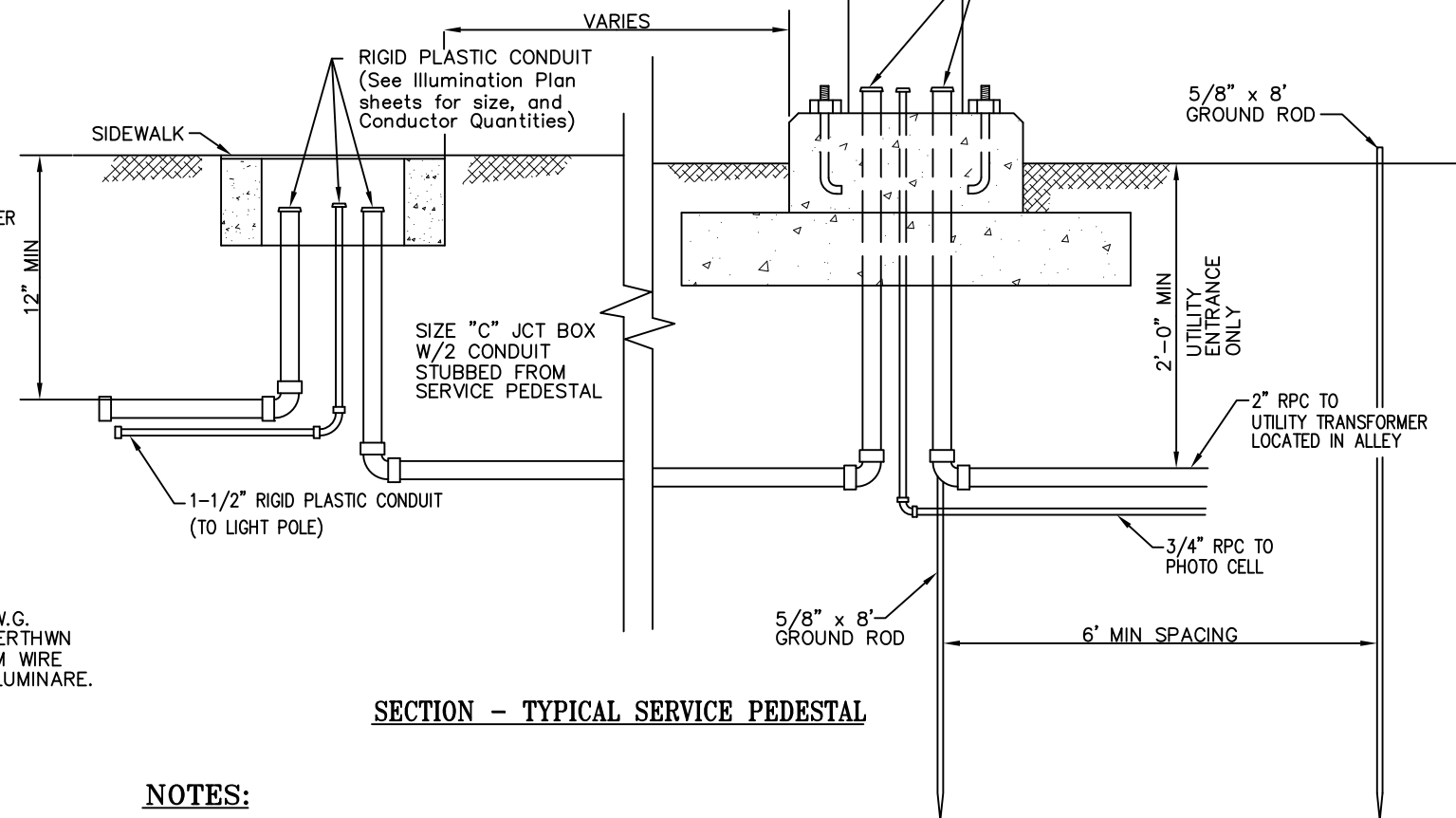
FRONT VIEW SERVICE PEDESTAL INSTALLATION DETAIL



SECTION A-A - TYPICAL POLE FOUNDATION



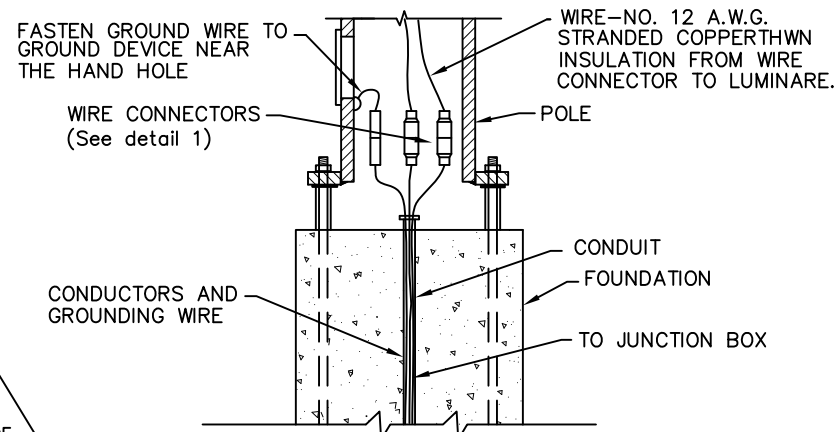
FRONT VIEW - SERVICE PEDESTAL FOUNDATION



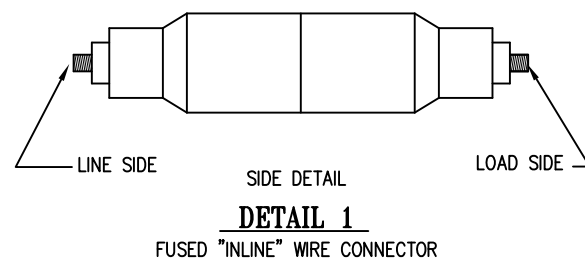
SECTION - TYPICAL SERVICE PEDESTAL

NOTE:

- Non-fused wire connectors required on neutral of 120 volt to ground circuits.
- Non fusible link required on grounding conductors of all breakaway installations.
- Fused wire connectors required on 120 & 240 volt phase to phase to ground circuits.



BREAKAWAY SUPPORT COUPLING INLINE TYPE CONNECTOR INSTALLATION



NOTES:

- The foundation shall be located as indicated on the project plan sheets.
- All conduits, elbows and couplings within and protruding from the foundation, shall be Rigid Steel. The remaining conduits shall be as shown on the plans.
- Stubouts shall be terminated with a Steel Bonded Bushing.
- Ground in accordance with N.E.C.
- Conduit shall be installed in such a manner as to not cause modification of the cabinet.
- Grade to provide drainage away from cabinet foundation.
- Service pedestal equipment shall be submitted and approved by the City Engineer.

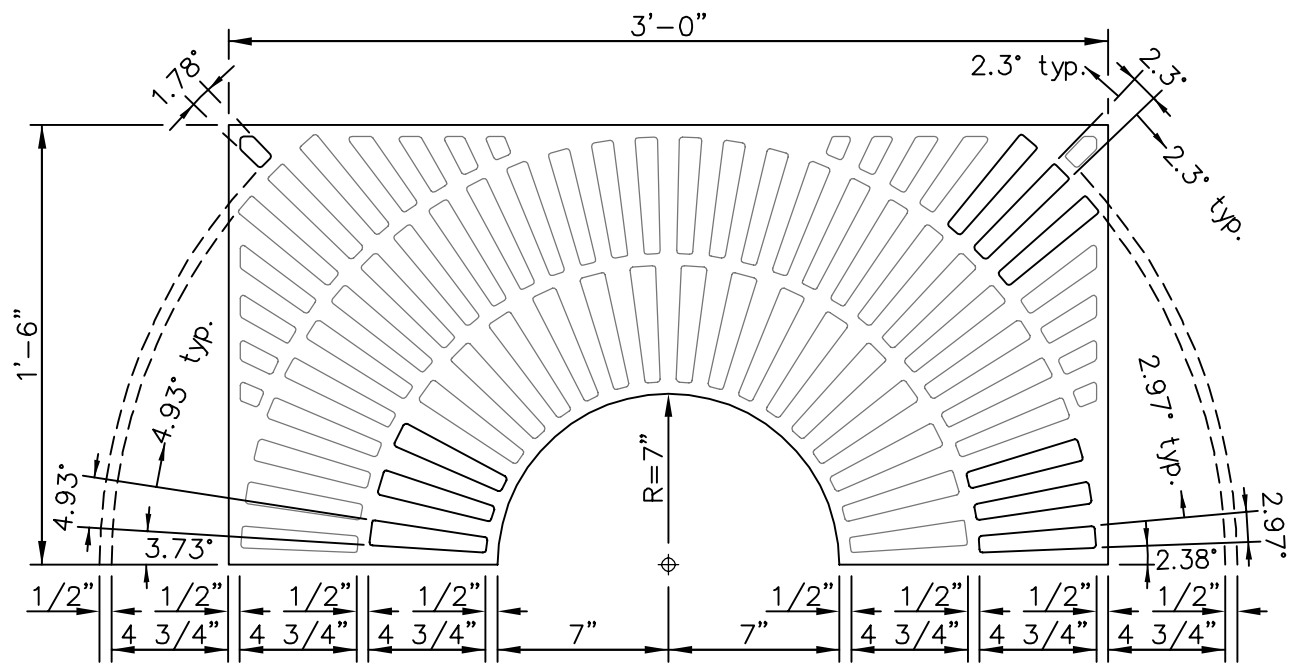
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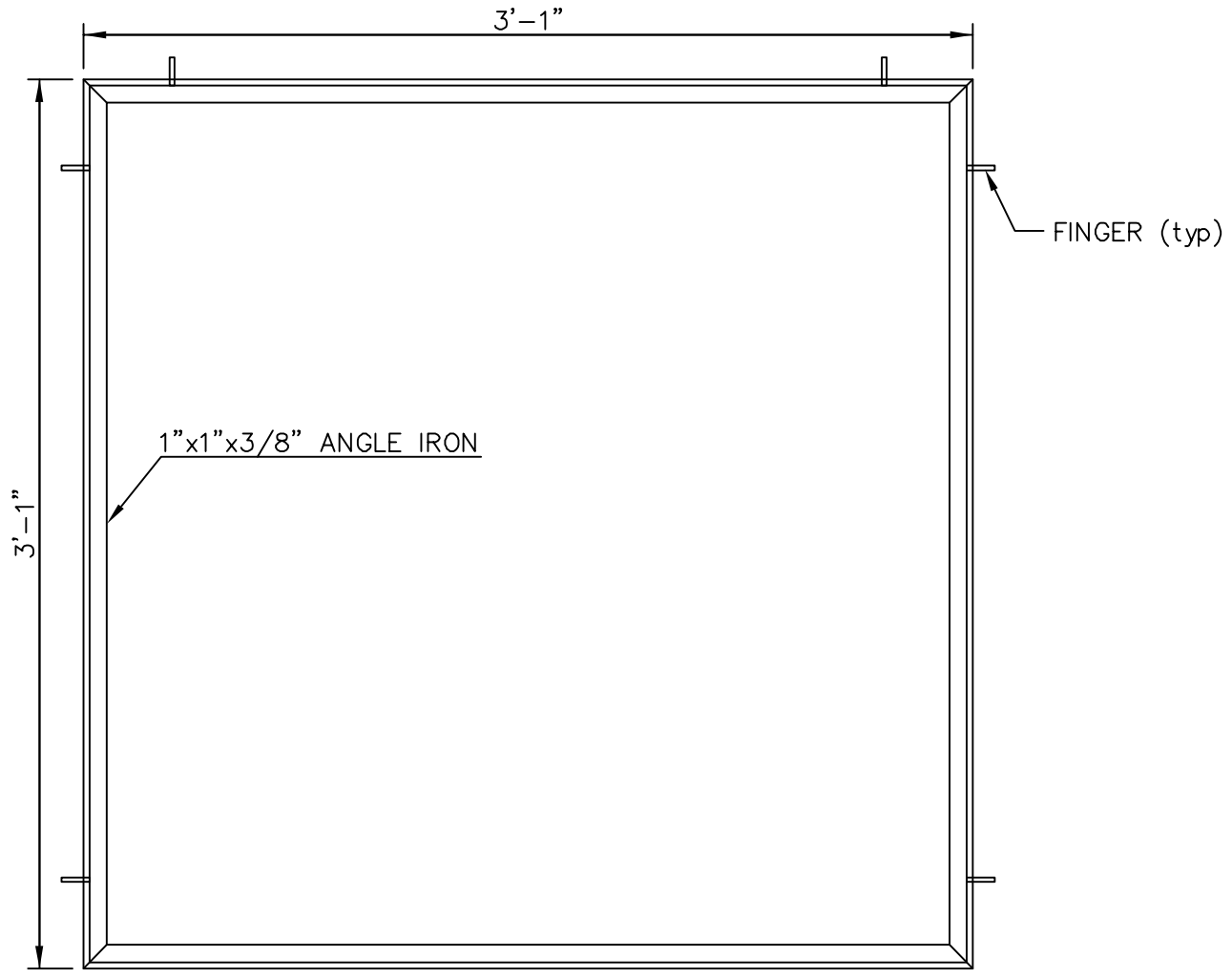
LIGHT POLE &
PEDESTAL DETAILS

18.14.014.E

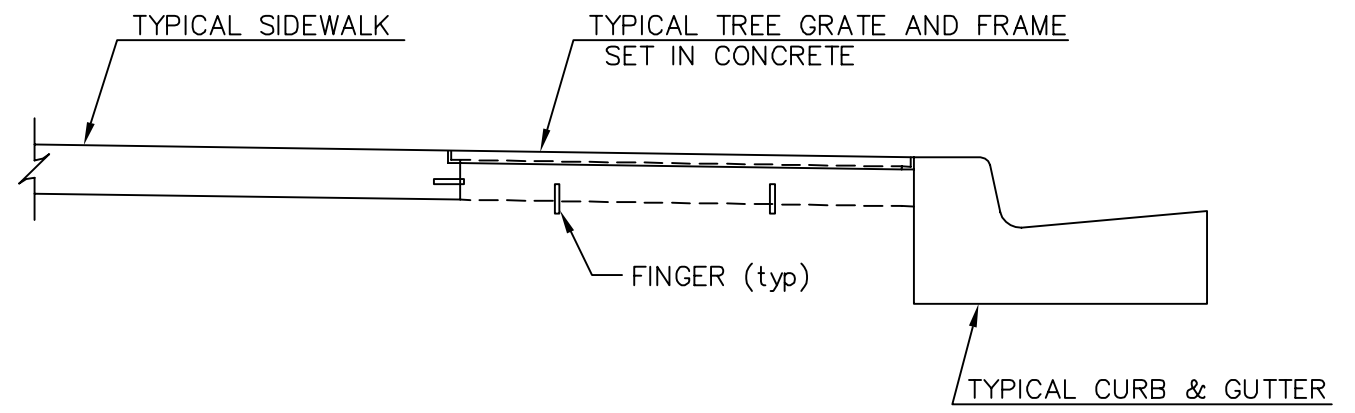
DRAWING NO.



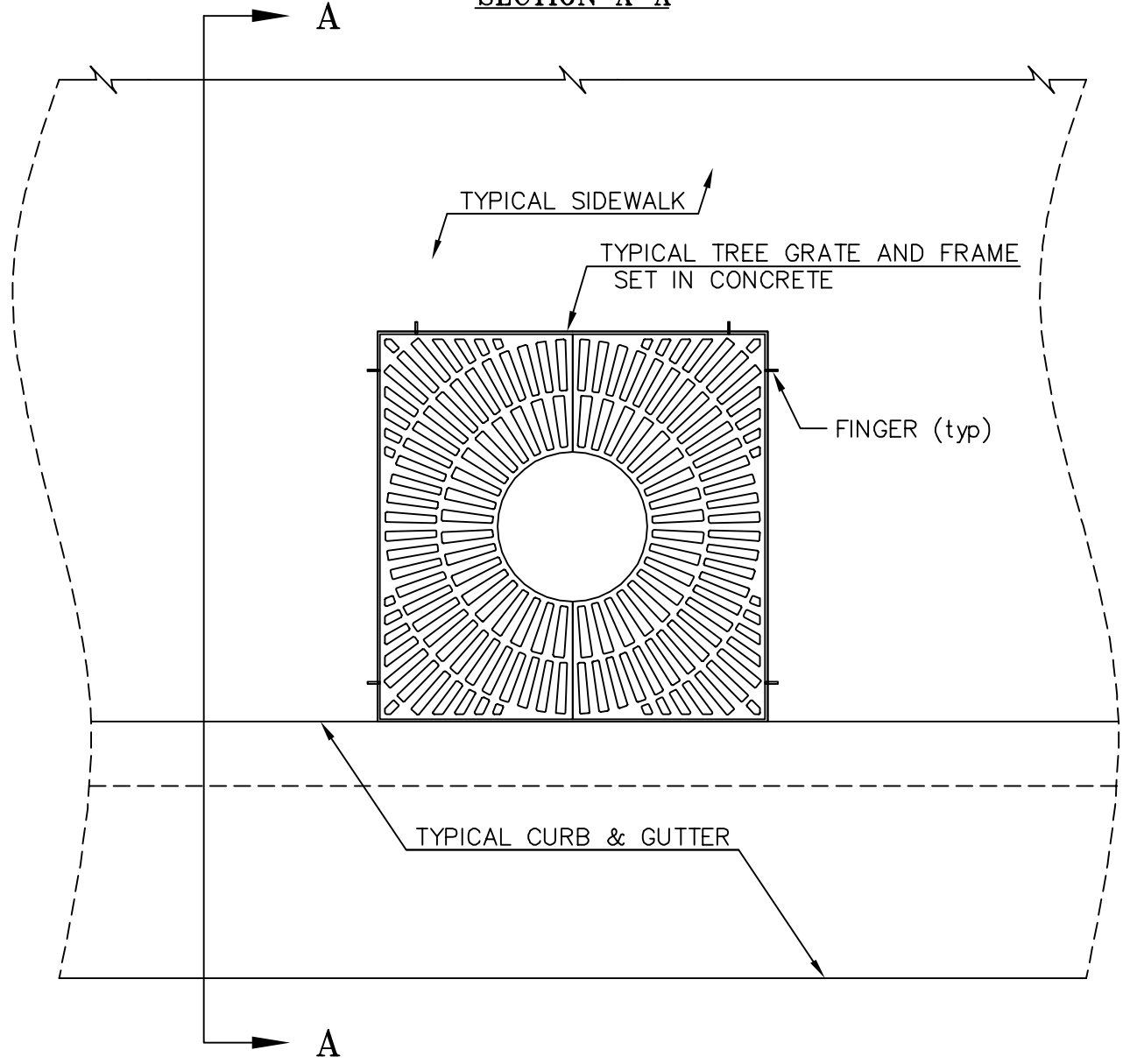
TYPICAL TREE GRATE DESIGN
 MATERIAL IS 3/4" THICK A36 MILD STEEL



TYPICAL TREE GRATE FRAME DESIGN



SECTION A-A



PLAN VIEW
TYPICAL TREE GRATE LOCATION

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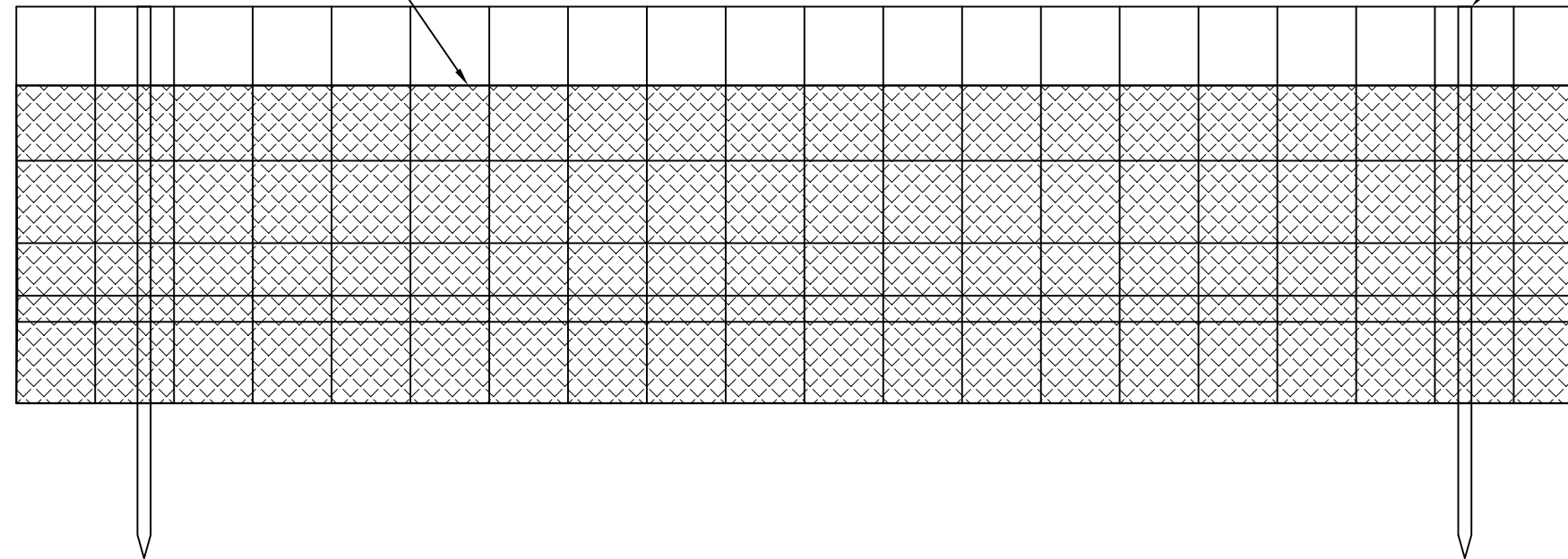
TREE GRATE DETAIL

18.14.014.F
 DRAWING NO.

Woven wire fence (14 1/2 ga. min., max 6" mesh spacing) with filter cloth over

10' Max. Center to Center

36" min. fence posts, driven min. 16" into ground.

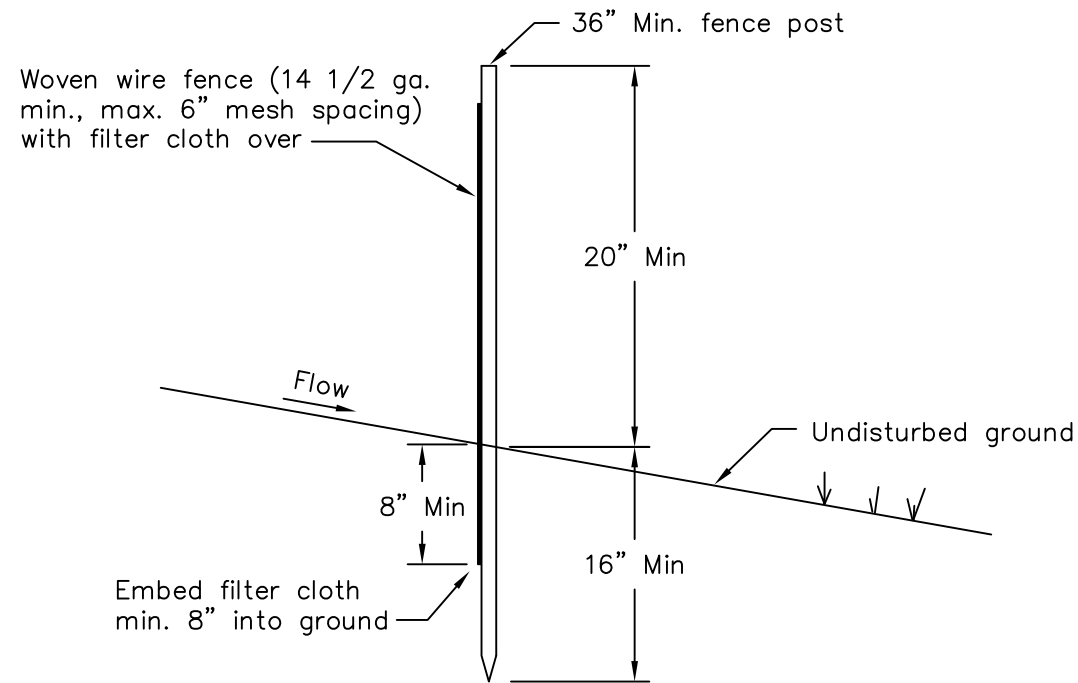


Height of Filter = 16" Min

Undisturbed ground

8" Min

FRONT VIEW
N.T.S.



SECTION
N.T.S.

POSTS: Steel, either "T" or "U" type or 2" hardwood.
 FENCE: Woven wire, 14 gage, 6" maximum mesh opening.
 FILTER CLOTH: Filter X, Mirafi 100X, Stabilinka T140N or approved equal
 PREFABRICATED UNIT: Geofab, Envirofence or approved equal.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. Woven wire fence to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24 inches at top and mid-section.
3. When two sections of filter cloth adjoin each other they shall be overlapped by 6 inches and folded.
4. Maintenance shall be performed as needed and material removed when 'bulges' develop in the silt fence.

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SILT FENCE

18.14.016.A

DRAWING NO.