

CITY OF LAVON, TEXAS
ORDINANCE NO. 2023-11-09

Update to Standard Construction Details

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF LAVON, TEXAS AMENDING ARTICLE 9.01 OF THE CITY OF LAVON CODE OF ORDINANCES – PUBLIC WORKS CONSTRUCTION, SECTION 9.01.001 (A)(2) ADOPTION OF STANDARDS SUBSECTION TO CLARIFY THE LABELING OF TYPICAL STREET SECTIONS IN THE CITY’S STANDARD CONSTRUCTION DETAILS, PROVIDING A REPEALER CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING A SEVERABILITY CLAUSE; PROVIDING FOR A PENALTY OF FINE NOT TO EXCEED THE SUM OF TWO THOUSAND DOLLARS (\$2,000.00); AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City of Lavon, Texas (the “City”) is a home rule municipality; and

WHEREAS, Section 51.012 of the Texas Local Government Code authorizes a municipality to adopt ordinances necessary for the government, interest, welfare, or good order of the municipality; and

WHEREAS, it is the desire of the City Council of the City to adopt an update to the standardized construction details for public infrastructure to update the labeling of typical street sections for clarity and for consistency with the adopted Master Thoroughfare Plan; and

WHEREAS, the City Council finds that adoption of these standards facilitates proper construction standards and inspection activities by the City relating to construction within the City of Lavon, Texas; and

WHEREAS, the City Council conducted a public hearing on November 7, 2023 to receive input regarding the proposed update to the Standard Construction Details;

WHEREAS, the City Council finds that this Ordinance substantially advances the public health, safety, and general welfare of the citizens of the City, and healthful development of the municipality.

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LAVON, TEXAS, THAT:

Section 1. Incorporation of Recitals. The foregoing recitals hereby are incorporated by reference and made a part hereof as if fully set forth.

Section 2. Amendment to Code of Ordinances. Chapter 9 “Planning and Development Regulations”, Article 9.01 “Public Works Construction”, Section 9.01.001 (a) “Adoption of Standards” (2) of the City’s Code of Ordinances is hereby amended to incorporate the update to the Standard Construction Details as provided in Exhibit A, attached hereto and incorporated herein for all purposes.

Section 3. Severability Clause. It is hereby declared to be the intention of the City Council that the phrases, clauses, sentences, paragraphs, and sections of this Ordinance are severable, and if any

phrase, clause, sentence, paragraph, or section of this Ordinance shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences paragraphs, and sections of this Ordinance, since the same would have been enacted by the City Council without the incorporation of this Ordinance of any such unconstitutional phrase, clause, sentence, paragraph, or section.

Section 4. Savings/Repealing. All provisions of any ordinance in conflict with this Ordinance are hereby repealed to the extent they are in conflict; but such repeal shall not abate any pending prosecution for violation of the repealed ordinance, nor shall the repeal prevent a prosecution from being commenced for any violation if occurring prior to the repeal of the ordinance. Any remaining portions of said ordinances shall remain in full force and effect.

Section 5. Penalty. A violation of any provisions of this article shall be deemed to be a misdemeanor and, upon conviction of such violation, shall be punishable by a fine as provided in section Article 9.02 and Section 1.01.009 of the City of Lavon Code of Ordinances. Each day on which the provisions of this Ordinance are violated shall constitute a separate offense.

Section 6. Open Meeting. It is hereby officially found and determined that the meeting at which this ordinance was passed was open to the public as required by law, and that public notice of the time, place, and purpose of said meeting was given, all as required by Section 551.042, Texas Government Code.

Section 7. Effective Date. This Ordinance shall take effect immediately upon its passage.

DULY PASSED AND APPROVED by the City Council of the City of Lavon, Texas, this 7th day of November 2023.



Vicki Sanson, Mayor

ATTEST:



Rae Norton, City Secretary



CITY OF LAVON, TEXAS
ORDINANCE NO. 2023-11-09

EXHIBIT A

STANDARD CONSTRUCTION DETAILS UPDATE

CITY OF LAVON

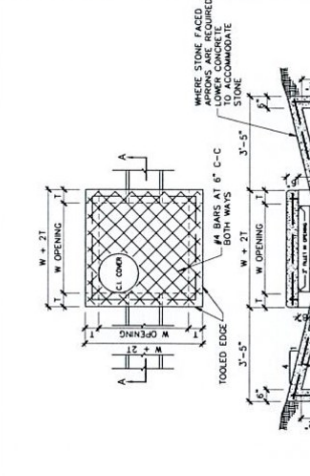


STANDARD CONSTRUCTION DETAILS

INDEX

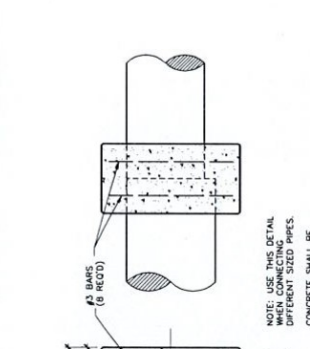
SHEET NO.	SHEET TITLE
DS-G1	GENERAL NOTES
DS-DR1	STORM SEWER DETAILS
DS-DR2	STORM SEWER DETAILS
DS-PV1	TYPICAL STREET SECTIONS (REV. 11-07-2023)
DS-PV2	TYPICAL STREET SECTIONS (REV. 11-07-2023)
DS-PV3	PAVING DETAILS
DS-PV4	ACCESSIBLE SIDEWALK DETAILS
DS-PV5	SIDEWALK, DRIVEWAY & ALLEY DETAILS
DS-SS1	SANITARY SEWER DETAILS
DS-SS2	SANITARY SEWER DETAILS

ADOPTED: MAY 2018
ORD. NO.: 2018-05-01
REVISION: 2019-12-01
REVISION:
REVISION:



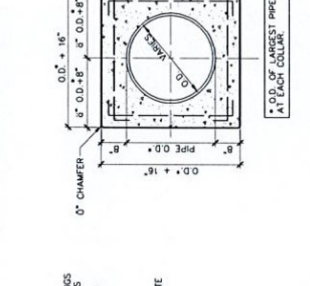
- NOTE: SEE WALLS TO BE REINFORCED WITH STANDARD CONCRETE MANHOLES. LAYERS OF REINFORCED STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2", UNLESS OTHERWISE NOTED.
1. REINFORCED CONCRETE SHALL CONFORM WITH THE FOLLOWING STANDARD SPECIFICATIONS FOR STANDARD CONCRETE MANHOLES.
2. LAYERS OF REINFORCED STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2", UNLESS OTHERWISE NOTED.
3. REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING STANDARD SPECIFICATIONS FOR STANDARD CONCRETE MANHOLES.
4. REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING STANDARD SPECIFICATIONS FOR STANDARD CONCRETE MANHOLES.
- | INLET SIZE | T | W |
|------------|----|-------|
| 2" SQUARE | 7" | 2'-0" |
| 3" SQUARE | 7" | 3'-0" |
| 4" SQUARE | 7" | 4'-0" |

1 R.C.P. STORM SEWER EMBEDMENT
NO SCALE



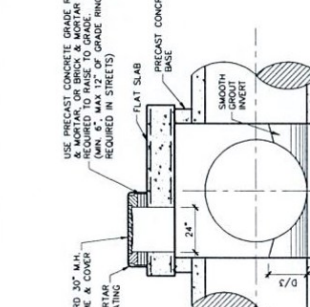
- NOTE: ALL PRECAST SECTIONS SHALL MEET OR EXCEED ASTM C1090. ALL PRECAST SECTIONS SHALL BE 4000 PSI, 6.5 SACK CONCRETE.
- MANHOLE NOMINAL SIZE SHALL BE 1.5 TIMES THE LARGEST PIPE DIAMETER FOR STRAIGHT THROUGH MANHOLES AND 1.5 TIMES THE LARGEST PIPE DIAMETER FOR MANHOLES WITH ANGLE MANHOLES. MINIMUM DIAMETER SHALL BE 48".
- MANHOLE FRAME AND COVERS SHALL BE CAST IRON BARS & HAYS PATTERN NO. 400-75 OR EQUAL. DO NOT USE SMOOTH FINISH FOR THE MANHOLE TO BRINK. RESULT SHALL EXTEND UP ON THE WALL OF THE MANHOLE AT LEAST 1/3 THE DIAMETER OF THE STORM SEWER PIPE.
1. WIDTH OF HEADWALL IS EQUAL TO PIPE O.D. + 24".
2. SAWCUT 4:1 BEVEL ON PIPE.
3. DRAWING SET-UP-CO.

2 STANDARD STORM SEWER MANHOLE
NO SCALE



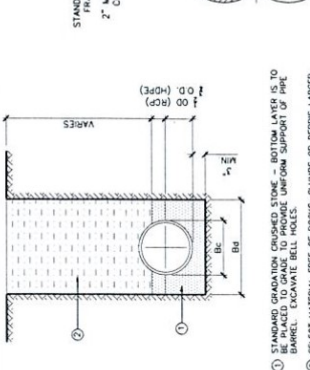
- NOTE: USE THIS DETAIL FOR DIFFERENT SIZED PIPES. CONCRETE SHALL BE MIN. 4000 PSI, 6.5 SACK.
1. WIDTH OF HEADWALL IS EQUAL TO PIPE O.D. + 24".
2. SAWCUT 4:1 BEVEL ON PIPE.
3. DRAWING SET-UP-CO.

3 CONCRETE COLLAR DETAIL
NO SCALE



- NOTE: WITHIN MA BE INCREASED OR DECREASED BASED ON CHANNEL FLOW CAPACITY BY CITY ENGINEER.
1. R.C.P. STORM SEWER EMBEDMENT
NO SCALE

4 TYPICAL EARTHEN CHANNEL SECTION
NO SCALE



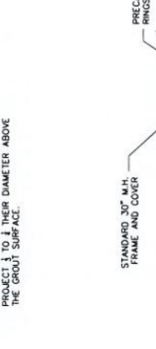
- SECTION A-A
- SECTION B-B
- NOTE: CONCRETE SHALL BE MIN. 4000 PSI, 6.5 SACK.
1. WIDTH OF HEADWALL IS EQUAL TO PIPE O.D. + 24".
2. SAWCUT 4:1 BEVEL ON PIPE.
3. DRAWING SET-UP-CO.

5 STORMWATER MANHOLE 4' x 5' OR 6' SQUARE
NO SCALE



- NOTE: WHEN ROCK RIPRAP IS USED FOR EROSION CONTROL, IT SHALL BE PLACED TO PROTECT THE PROJECT 1' TO 1.5' DIAMETER ABOVE THE GROUT SURFACE.
1. SLOPE INVERT OF MANHOLE AS INDICATED ON PLAN-PROFILE SHEET.
2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACES SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL BE MINIMUM 4000 PSI, 6.5 SACK.

6 "Y" INLET DETAIL
NO SCALE



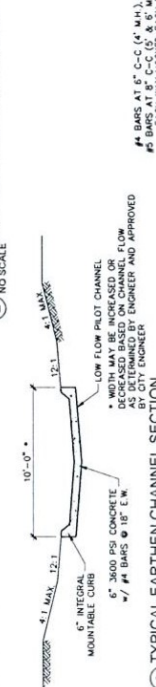
- NOTE: CONCRETE SHALL BE MIN. 4000 PSI, 6.5 SACK.
1. WIDTH OF HEADWALL IS EQUAL TO PIPE O.D. + 24".
2. SAWCUT 4:1 BEVEL ON PIPE.
3. DRAWING SET-UP-CO.

7 HEADWALL DETAIL
NO SCALE



- NOTE: CONCRETE SHALL BE MIN. 4000 PSI, 6.5 SACK.
1. WIDTH OF HEADWALL IS EQUAL TO PIPE O.D. + 24".
2. SAWCUT 4:1 BEVEL ON PIPE.
3. DRAWING SET-UP-CO.

8 CORNER DETAIL, PLAN VIEW
NO SCALE



- SECTION A-A
- SECTION B-B
- NOTE: CONCRETE SHALL BE MIN. 4000 PSI, 6.5 SACK.
1. WIDTH OF HEADWALL IS EQUAL TO PIPE O.D. + 24".
2. SAWCUT 4:1 BEVEL ON PIPE.
3. DRAWING SET-UP-CO.

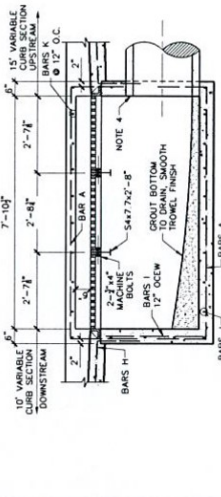
9 STORMWATER MANHOLE 4' x 5' OR 6' SQUARE
NO SCALE

TRENCH WIDTH FOR R.C.P. WALL 'B'

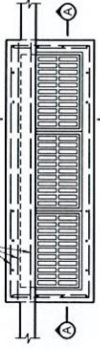
PIPE DIAMETER (INCHES)	MINIMUM TRENCH WIDTH (INCHES)	MINIMUM TRENCH WIDTH (FEET)
18"	32.0	2.67
24"	40.0	3.33
30"	48.0	4.00
36"	56.0	4.67
42"	64.0	5.33
48"	72.0	6.00
54"	80.0	6.67
60"	88.0	7.33
66"	96.0	8.00
72"	104.0	8.67
78"	112.0	9.33
84"	120.0	10.00

TABLE OF DIMENSIONS

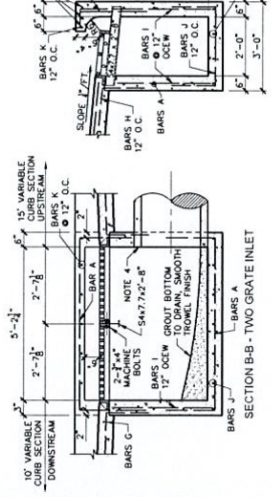
M.H. SIZE (W x H)	V	E	F	G	H
4' x 5'	4'	5'	4'	5'	11'-3"
5' x 6'	5'	6'	5'	6'	11'-8"
6' x 6'	6'	6'	6'	6'	10'-2"



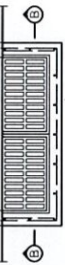
SECTION AA - THREE GRATE INLET



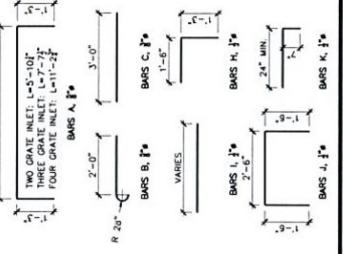
PLAN - THREE GRATE INLET



SECTION BB - TWO GRATE INLET

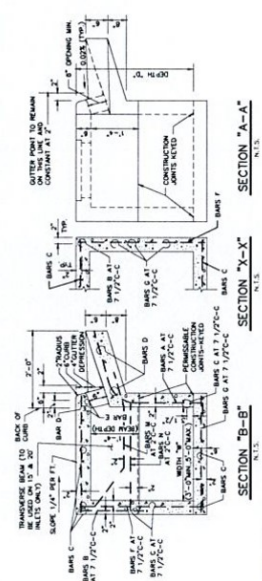


PLAN - TWO GRATE INLET



COMBINATION GRATE INLETS

- NOTES:
1. COMBINATION GRATE INLETS MAY BE USED ONLY IN ALLEYS.
 2. ALL LIPS AND EXTENSIONS OF REINFORCING BARS NOTED BE 5# BIR DIMENSIONS UNLESS OTHERWISE NOTED.
 3. TACK WELD GRATES IN PLACE.
 4. PIRE MAY BE PLACED IN ANY WALL BUT SHALL NOT ENTER BOTTOM, OR ANY CORNER.
 5. GRATE AND FRAME SHALL BE PATENTED NO. 814 AS MANUFACTURED BY BASS & HAYES FOUNDRY, INC. OR APPROVED EQUAL.
 6. FOUR GRATE INLET SHALL BE CONSTRUCTED BY THE ORIGINAL CENTER SECTION TO THE THREE GRATE INLET.

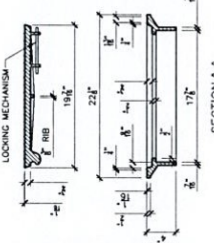


SECTION 'A-A'

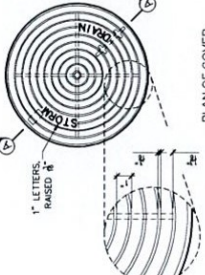
SECTION 'Y-Y-X'

- GENERAL NOTES:
1. REINFORCING BARS TO BE CLASS 'A' UNLESS OTHERWISE NOTED.
 2. ALL CONCRETE SHALL BE CLASS 'A' CONCRETE.
 3. BARS OF 2" DIAMETER AND SMALLER TO BE CLASS 'A' CONCRETE.
 4. DIMENSIONS SHOWN TO CENTER UNLESS OTHERWISE NOTED.
 5. ALL CORNERS TO BE ROUNDED TO R=1/4" UNLESS OTHERWISE NOTED.
 6. ALL CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE OTHER BARS.

INLET SECTION



SECTION A-A



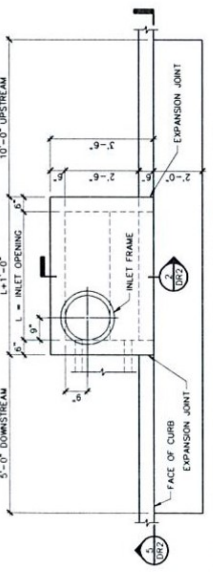
INLET FRAME AND COVER

STANDARD & RECESSED INLETS		DOUBLE INLETS		BAR DIMENSIONS	
NAME	NO.	NAME	NO.	BAR TYPE	BAR DIMENSIONS
LENGTH (1/8")	WIDTH (1/8")	LENGTH (1/8")	WIDTH (1/8")		
B	1	A	1	A	17'-2"
B	2	A	2	A	17'-2"
B	3	A	3	A	17'-2"
B	4	A	4	A	17'-2"
B	5	A	5	A	17'-2"
B	6	A	6	A	17'-2"
B	7	A	7	A	17'-2"
B	8	A	8	A	17'-2"
B	9	A	9	A	17'-2"
B	10	A	10	A	17'-2"
B	11	A	11	A	17'-2"
B	12	A	12	A	17'-2"
B	13	A	13	A	17'-2"
B	14	A	14	A	17'-2"
B	15	A	15	A	17'-2"
B	16	A	16	A	17'-2"
B	17	A	17	A	17'-2"
B	18	A	18	A	17'-2"
B	19	A	19	A	17'-2"
B	20	A	20	A	17'-2"
B	21	A	21	A	17'-2"
B	22	A	22	A	17'-2"
B	23	A	23	A	17'-2"
B	24	A	24	A	17'-2"
B	25	A	25	A	17'-2"
B	26	A	26	A	17'-2"
B	27	A	27	A	17'-2"
B	28	A	28	A	17'-2"
B	29	A	29	A	17'-2"
B	30	A	30	A	17'-2"
B	31	A	31	A	17'-2"
B	32	A	32	A	17'-2"
B	33	A	33	A	17'-2"
B	34	A	34	A	17'-2"
B	35	A	35	A	17'-2"
B	36	A	36	A	17'-2"
B	37	A	37	A	17'-2"
B	38	A	38	A	17'-2"
B	39	A	39	A	17'-2"
B	40	A	40	A	17'-2"
B	41	A	41	A	17'-2"
B	42	A	42	A	17'-2"
B	43	A	43	A	17'-2"
B	44	A	44	A	17'-2"
B	45	A	45	A	17'-2"
B	46	A	46	A	17'-2"
B	47	A	47	A	17'-2"
B	48	A	48	A	17'-2"
B	49	A	49	A	17'-2"
B	50	A	50	A	17'-2"
B	51	A	51	A	17'-2"
B	52	A	52	A	17'-2"
B	53	A	53	A	17'-2"
B	54	A	54	A	17'-2"
B	55	A	55	A	17'-2"
B	56	A	56	A	17'-2"
B	57	A	57	A	17'-2"
B	58	A	58	A	17'-2"
B	59	A	59	A	17'-2"
B	60	A	60	A	17'-2"

REINFORCING STEEL SCHEDULE

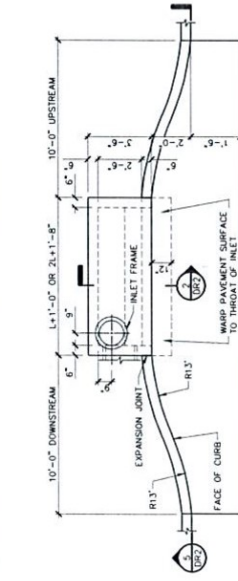
DOUBLE INLETS

BAR DIMENSIONS



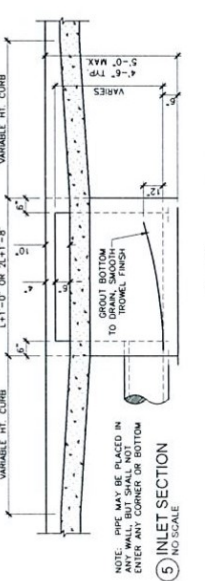
PLAN - STANDARD INLET

- NOTE: PIPES SHALL CONNECT TO THE ENDS OF CURB. EXPANSION JOINTS SHALL NOT BE MADE AT CORNER OR BOTTOM.

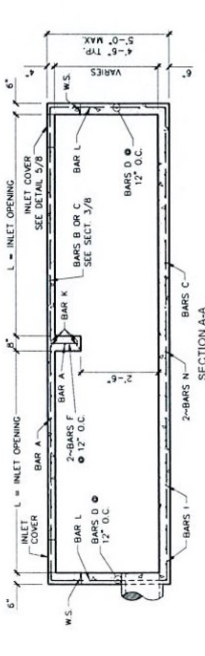
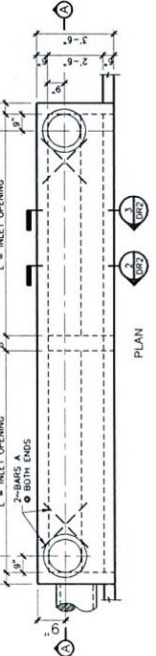


PLAN - RECESSED INLET

- NOTE: PIPES SHALL BE PLACED IN ANY CORNER OR BOTTOM TO TROMEL FINISH.

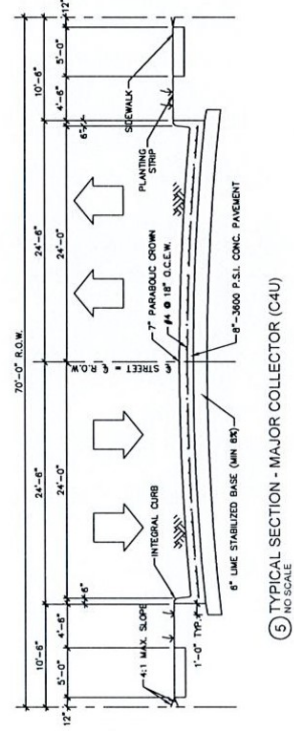
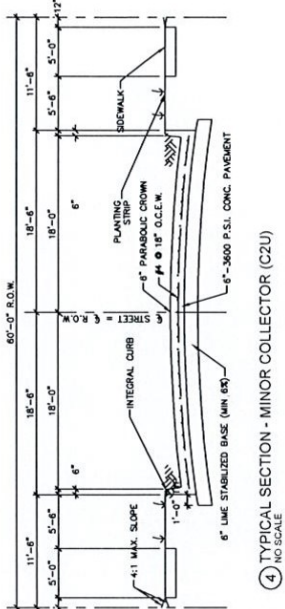
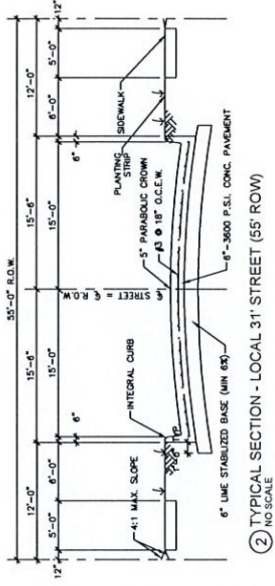
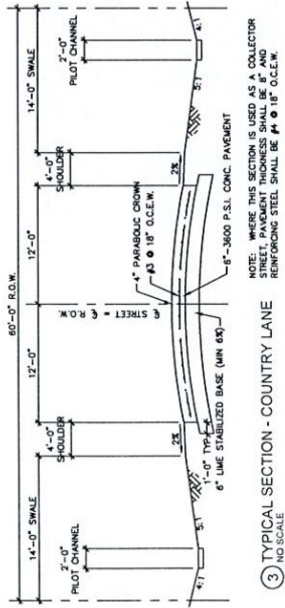
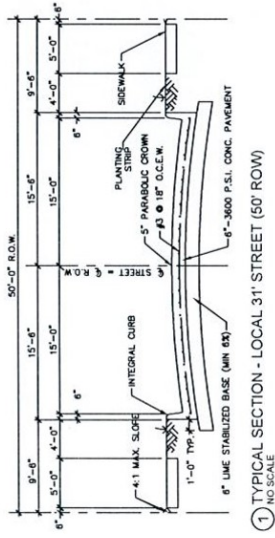


INLET SECTION



DOUBLE INLET DETAILS

- NOTE: DETAIL SHOWN FOR INLETS LARGER THAN 10" IN WIDTH. FOR INLETS 10" IN WIDTH AND LESS, DELETE CENTER ROOF BEAM AND ONE INLET COVER.



- NOTES:
1. LIME STABILIZED BASE SHALL BE APPLICABLE TO ALL SUBBASES WITH A MIN. OF 15 OR HIGHER LIME STABILIZED SUBBASE SHALL HAVE A MINIMUM LIME CONTENT OF 6% (27 LBS/ASY). SUBGRADE DESIGN SHALL BE DETERMINED BY A LICENSED GEOTECHNICAL ENGINEER.
 2. FLY ASH FILL BE USED FOR CONCRETE PAVEMENT. FLY ASH CANNOT EXCEED 20% BY MASS OF PORTLAND CEMENT AND AGGREGATE.
 3. SLOPE CONTENT FOR STREETS SHALL BE A MINIMUM OF 6 SACKS FOR MACHINE POURED AND 6.2 SACKS FOR HAND POURED.
 4. PARKING LOT DESIGN
 - 4.1. PARKING AREAS AND DRIVE ASILES - MIN. 5" THICK W/ #3@24" O.C.E.W.
 - 4.2. FIRE LAMES - MIN. 7" THICK W/ #4 @ 18" O.C.E.W.
 - 4.3. DAMPER PAD AND AREA 10' IN FRONT - MIN. 8" THICK W/ #4@18" O.C.E.W.
- STREET INTERSECTIONS MAY REQUIRE ADDITIONAL RIGHT-OF-WAY TO ALLOW FOR MOUNTABLE CURBS/DRIVE ASILES. THE MOUNTABLE CURBS/DRIVE ASILES SHALL BE MOUNTABLE CURBS WILL ONLY BE CONSIDERED ON LOCAL RESIDENTIAL STREETS.
7. ADDITIONAL RIGHT-OF-WAY MAY BE REQUIRED TO ACCOMMODATE TRAILS.

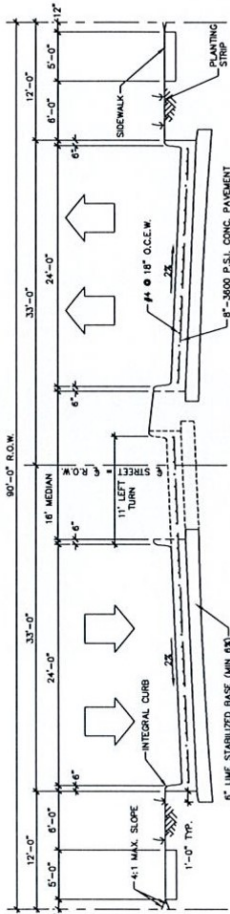


TYPICAL STREET SECTIONS
STANDARD CONSTRUCTION DETAILS
CITY OF LAVON

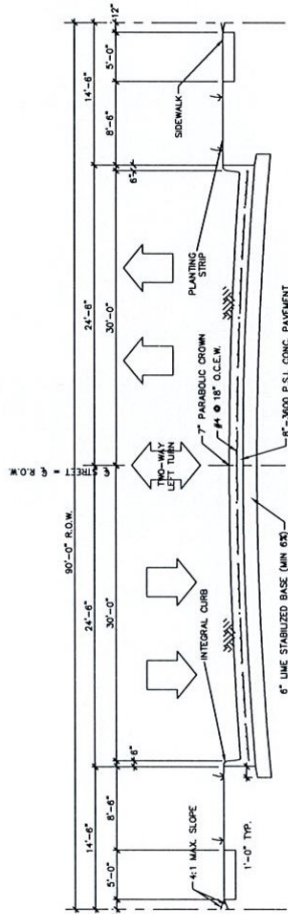
SCALE:	NO SCALE
ADOPTED:	MAY 2018
ORD. NO.:	2018-05-03
REVISION:	2019-12-03
REVISION:	2021-12-03
REVISION:	0
REVISION:	1
ORIGINAL SCALE:	1"

SHEET
DS-PV2

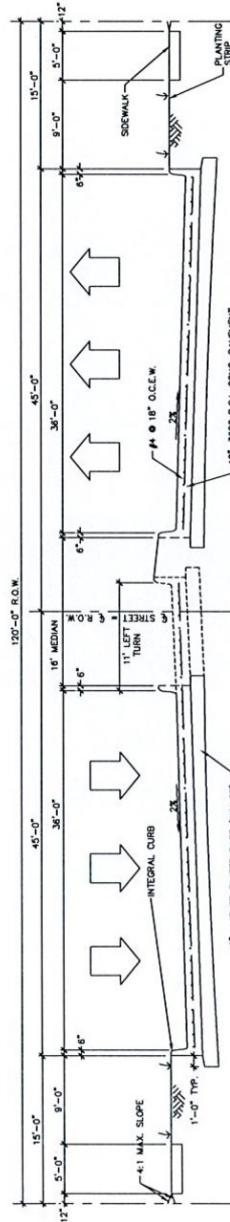
- NOTES:
1. LIME STABILIZED BASE SHALL BE APPLICABLE TO ALL SUBGRADES WITH A P.I. OF 12 OR GREATER. THE MINIMUM LIME CONTENT OF ALL (7) LBS/TON SUBGRADE DESIGN SHALL BE DETERMINED BY A LICENSED GEOTECHNICAL ENGINEER.
 2. FLY ASH MAY BE USED FOR CONCRETE PAVEMENT. FLY ASH CANNOT EXCEED 20% BY WEIGHT PER CUBIC YARD OF CONCRETE.
 3. CEMENT CONTENT FOR STREETS SHALL BE A MINIMUM OF 6 SACK FOR MACHINE POURED AND 6.5 SACK FOR HAND POURED.
 4. PARKING LOT DESIGN:
 - 4.1 DRIVE LINES - MIN. 8" THICK W/ #30014 O.C.E.W.
 - 4.2 FIRE LANES - MIN. 7" THICK W/ #4 @ 18" O.C.E.W.
 - 4.3 DUMPSTER PAD AND AREA 10' IN FRONT - MIN. 8" THICK W/ #4 @ 18" O.C.E.W.
 5. STREET INTERSECTIONS MAY REQUIRE ADDITIONAL RIGHT-OF-WAY TO ALLOW FOR RIGHT TURN LANES AND/OR MULTIPLE LEFT TURN LANES.
 6. MOUNTABLE CURBS SHALL BE REVIEWED ON A CASE-BY-CASE BASIS. MOUNTABLE CURBS WILL ONLY BE CONSIDERED ON LOCAL RESIDENTIAL STREETS.
 7. ADDITIONAL RIGHT-OF-WAY MAY BE REQUIRED TO ACCOMMODATE TRAILS.



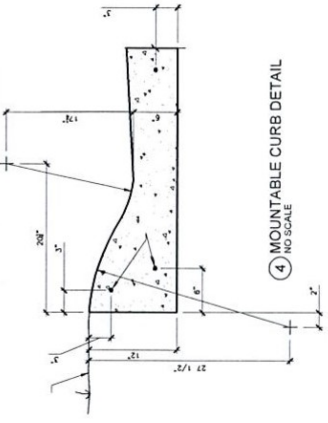
(6) TYPICAL SECTION - MINOR ARTERIAL (MAD)
NO SCALE



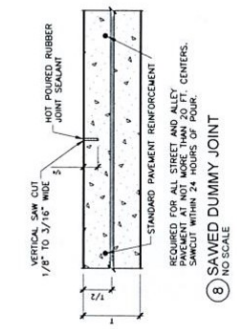
(7) TYPICAL SECTION - MINOR ARTERIAL/MAJOR COLLECTOR (P5U)
NO SCALE



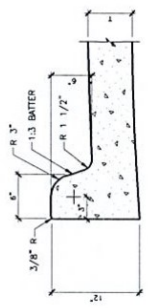
(8) TYPICAL SECTION - PRINCIPAL ARTERIAL (P6D)
NO SCALE



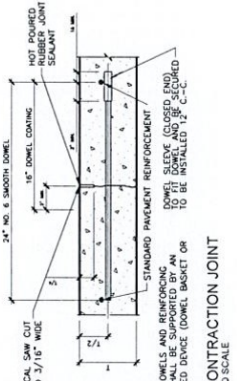
4 MOUNTABLE CURB DETAIL
NO SCALE



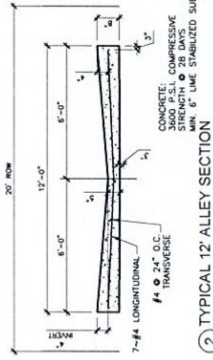
8 SAVED DUMMY JOINT
NO SCALE



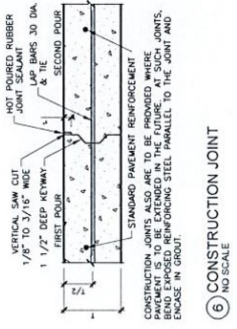
3 INTEGRAL CURB DETAIL
NO SCALE



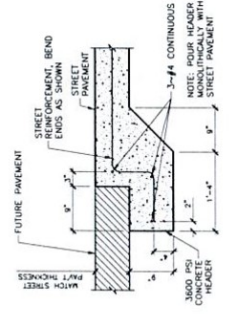
7 CONTRACTION JOINT
NO SCALE



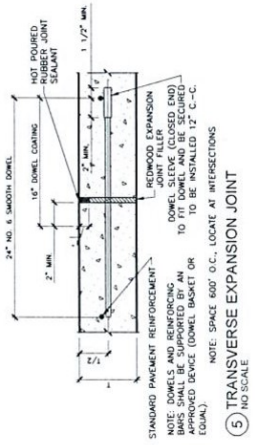
2 TYPICAL 12' ALLEY SECTION
NO SCALE



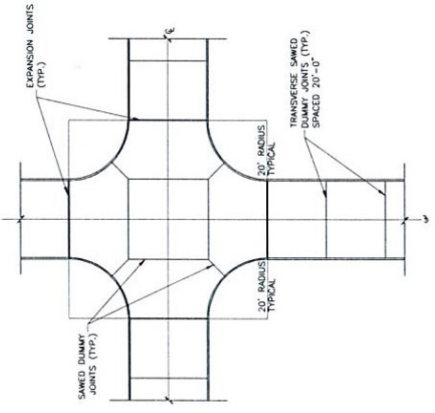
6 CONTRACTION JOINT
NO SCALE



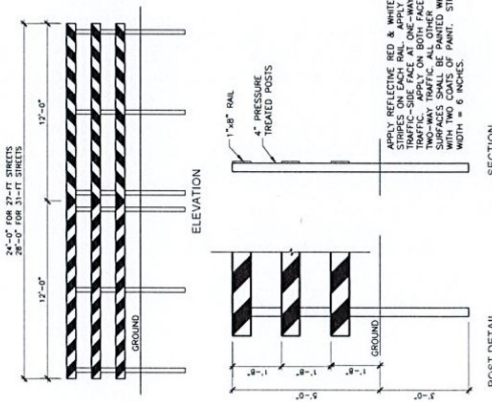
1 TYPICAL STREET HEADER
NO SCALE



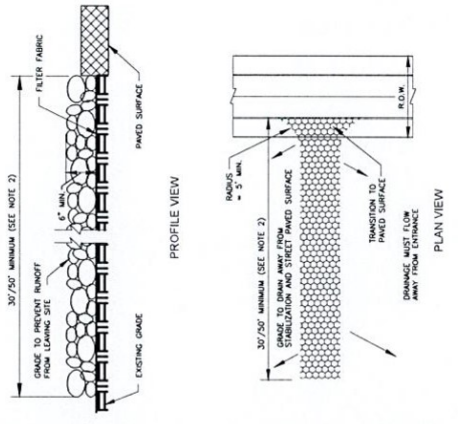
5 TRANSVERSE EXPANSION JOINT
NO SCALE



9 TYPICAL INTERSECTION JOINTING
NO SCALE

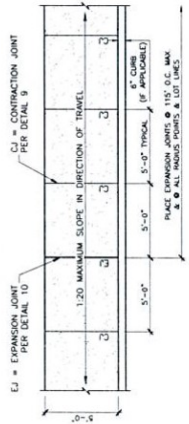


10 TEMPORARY BARRICADE DETAIL
NO SCALE

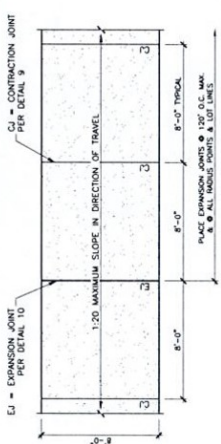


11 CONSTRUCTION ENTRANCE
NTS

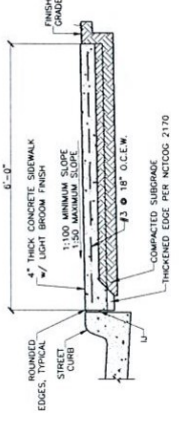
- NOTES
1. STONE SHALL BE 3 TO 6 INCH DIAMETER AND 100% FILL. AGGREGATE SHOULD BE 50% ACCEPTABLE.
 2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 10 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL AREAS SHALL BE 12 INCHES.
 3. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
 4. WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL PORTS OF ENTRANCES OR EGRESS.
 5. WHEN NECESSARY, VEHICLES SHOULD BE TO BE ENTRANCED ONTO A PUBLIC ROADWAY. WHEN NECESSARY, VEHICLES SHOULD BE ENTRANCED IN AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH SIDES. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING THE ROADWAY. ALL WATERCOURSE USING APPROVED METHODS.
 6. THE ENTRANCE SHALL BE MAINTAINED IN A CLEAN AND OPEN CONDITION. THIS MAY REQUIRE PERIODIC TOP DRESSING OR FLOWING OF SEDIMENT INTO PAVED SURFACE.
 7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.



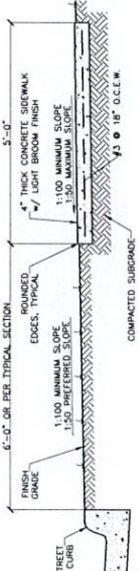
1 TYPICAL SIDEWALK PLAN
1/4"=1'-0"



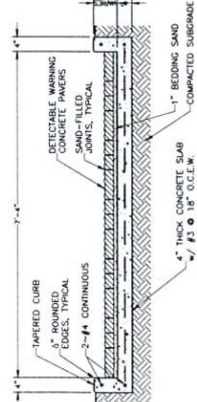
2 TYPICAL BIKE PATH PLAN
1/4"=1'-0"



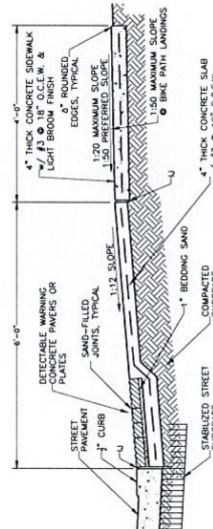
3 SIDEWALK SECTION - COMMERCIAL ZONE
3/4"=1'-0"



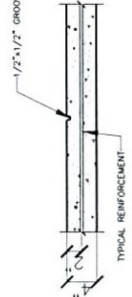
4 SIDEWALK SECTION - RESIDENTIAL ZONE
3/4"=1'-0"



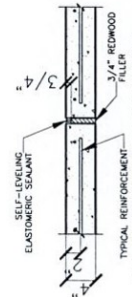
6 RAMP SECTION
3/4"=1'-0"



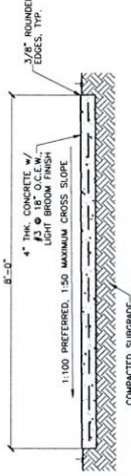
7 RAMP SECTION
3/4"=1'-0"



9 SIDEWALK CONTRACTION JOINT (CJ)
1/12"=1'-0"

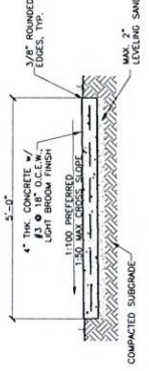


10 SIDEWALK EXPANSION JOINT (EJ)
1/12"=1'-0"

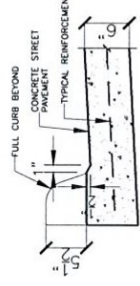


NOTE: BIKE PATHS SHALL NOT OBSTRUCT FLOW OF RUNOFF WATER ACROSS SITE. BIKE PATHS SHALL BE CONFINED AT THE EDGELINE TO SHED WATER IN BOTH DIRECTIONS IF NECESSARY FOR POSITIVE DRAINAGE.

5 BIKE PATH SECTION
3/4"=1'-0"



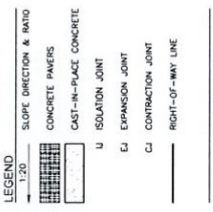
8 TYPICAL SIDEWALK SECTION
3/4"=1'-0"



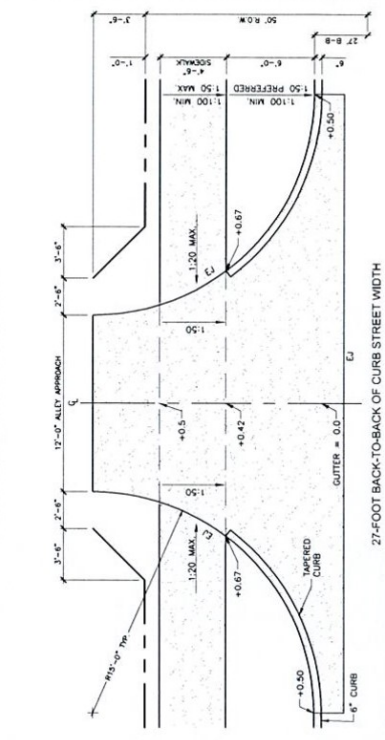
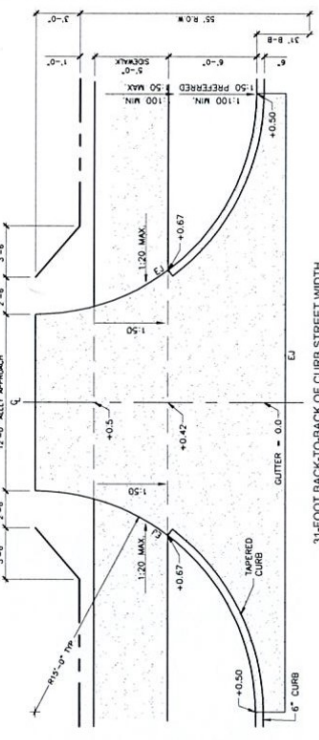
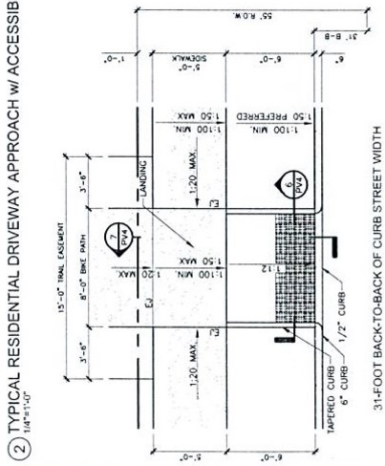
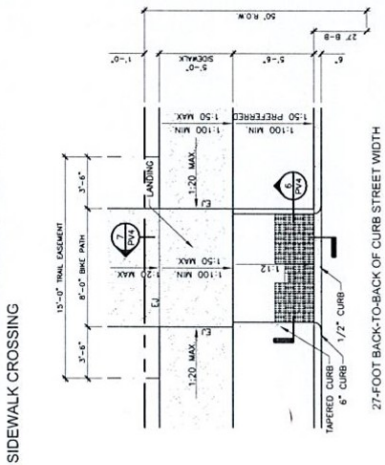
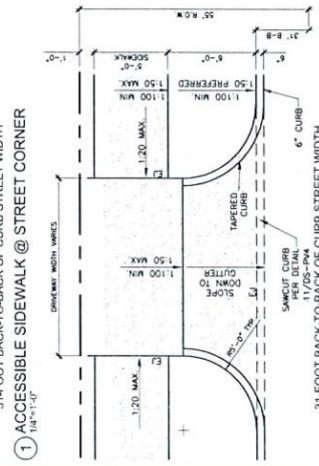
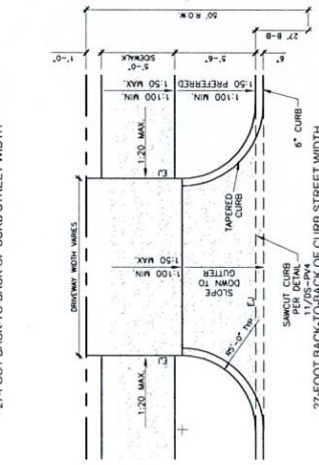
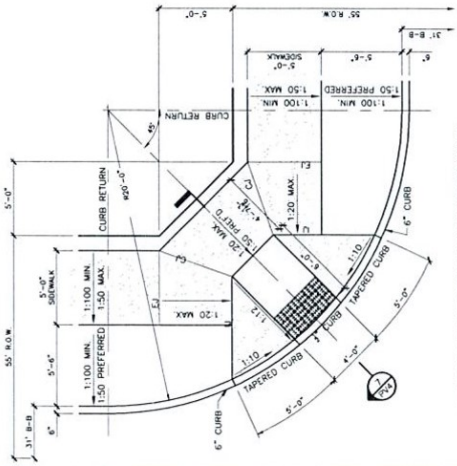
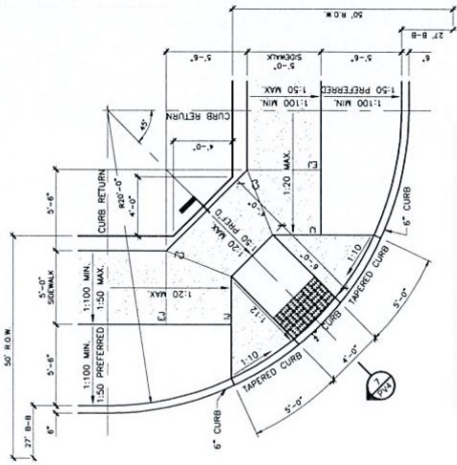
11 CURB AT DRIVEWAY SECTION
1/12"=1'-0"



SCALE:	AS NOTED
ADOPTED:	MAY 2018
REVISED:	NOV 2018 (5-0)
REVISION:	2019-12-01
BY:	HK/SONN
DATE:	0
ORIGINAL SCALE:	1"



- NOTES**
- CONCRETE PAVERS SHALL BE INTEGRALLY COLORED, OR EQUAL. THE COLOR SHALL BE DETERMINED BY THE CITY OF LAVON. A COLOR SAMPLE SHALL BE PROVIDED FOR CITY APPROVAL. PAVES SHALL BE CAST WITH INTEGRAL TRUNCATED DOME SURFACE FINISH TO MEET ADA COMPLIANCE. PAVES SHALL BE CAST TO MEET ACCESSIBILITY STANDARDS FOR DETECTABLE WARNING.
 - INSTALL PAVERS IN A PARQUET PATTERN AS INDICATED ON THIS SHEET.
 - PAVER COLOR SHALL BE RED OR AS DETERMINED BY THE CITY OF LAVON. A COLOR SAMPLE SHALL BE PROVIDED FOR CITY APPROVAL.
 - PAVER APPROACHES SHALL BE 2" MINIMUM THICKNESS, 3,600 PSI CONCRETE WITH #3 REINFORCING BARS AT 18" CENTER-TO-CENTER EACH WAY.
 - ALLEY APPROACHES SHALL BE 5" MINIMUM THICKNESS, 3,600 PSI CONCRETE WITH #3 REINFORCING BARS AT 18" CENTER-TO-CENTER EACH WAY.
 - PLACE EXPANSION JOINTS BETWEEN DRIVEWAY AND ALLEY APPROACHES AND ADJACENT STREET PARALLEL.
 - LIGHT BROOM FINISH ALL EXPOSED CONCRETE SURFACES.
 - EXPOSED AGGREGATE IS NOT AN ACCEPTABLE FINISH FOR SIDEWALKS.
 - CONCRETE PAVES SHALL BE CAST IN PLACE. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE CAST IN PLACE. CONCRETE SHALL BE 28-DAY COMPRESSIVE STRENGTH OF 3,600 PSI. PAVES SHALL BE COLORFAST AND UV STABILIZED. PAVES SHALL BE CAST WITH INTEGRAL TRUNCATED DOME SURFACE FINISH TO MEET ADA COMPLIANCE. PAVES SHALL BE CAST TO MEET ACCESSIBILITY STANDARDS FOR DETECTABLE WARNING. MINIMUM COMPRESSIVE STRENGTH OF 28,000 PSI (ASTM D799). SLIP RESISTANCE OF 1.18 DRY AND 1.05 WET (ACM C1029).

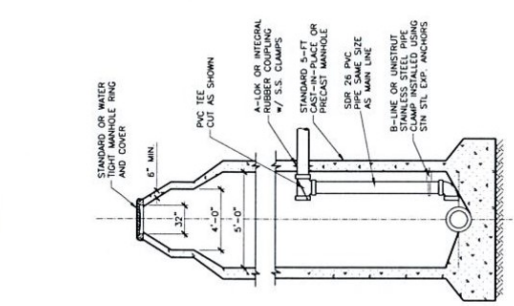


1 ACCESSIBLE SIDEWALK @ STREET CORNER
1/4"=1'-0"

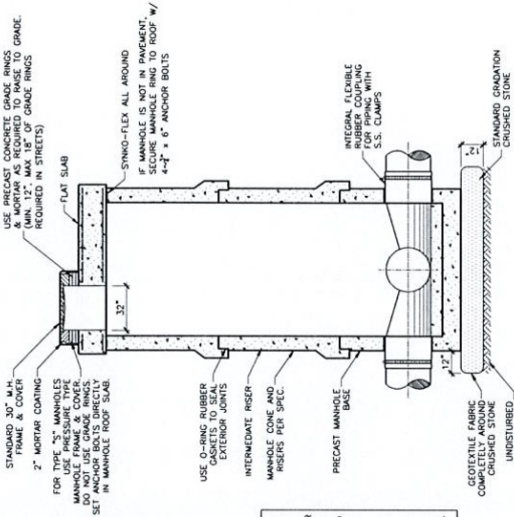
2 TYPICAL RESIDENTIAL DRIVEWAY APPROACH W/ ACCESSIBLE SIDEWALK CROSSING
1/4"=1'-0"

3 ACCESSIBLE SIDEWALK @ BIKE PATH CROSSING
1/4"=1'-0"

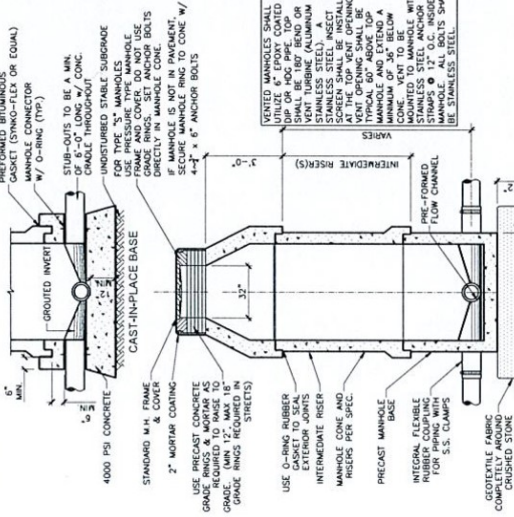
4 TYPICAL ALLEY APPROACH W/ ACCESSIBLE SIDEWALK CROSSING
1/4"=1'-0"



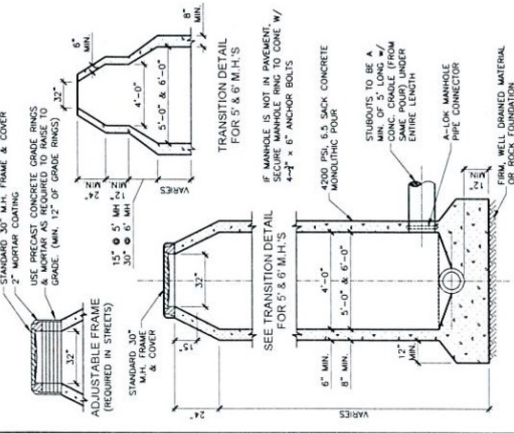
1 STANDARD CAST-IN-PLACE MANHOLE
NO SCALE



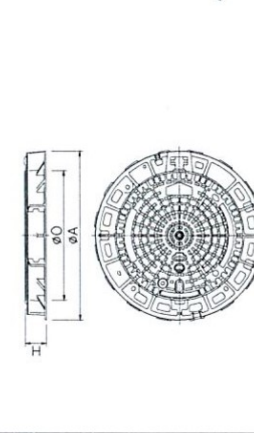
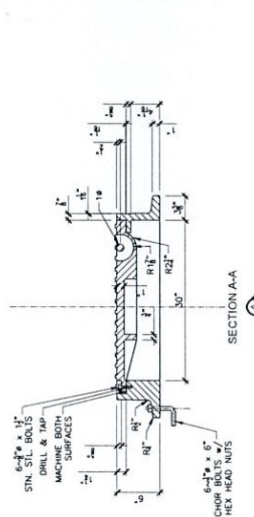
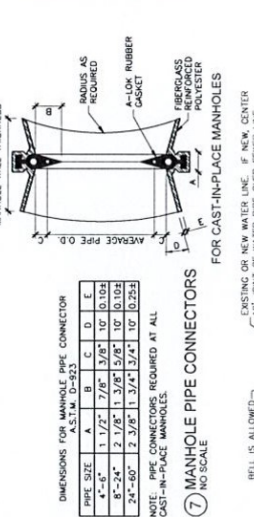
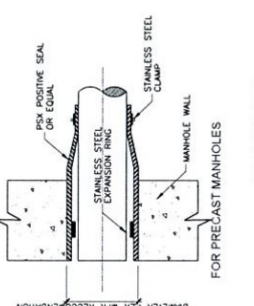
2 STANDARD PRECAST MANHOLE
NO SCALE



3 STANDARD PRECAST FLAT TOP MANHOLE
NO SCALE



4 STANDARD 5' DROP MANHOLE CONNECTION
NO SCALE



5 STANDARD 5' DROP MANHOLE CONNECTION
NO SCALE

6 WATER TIGHT MANHOLE FRAME & COVER
NO SCALE

7 STANDARD MANHOLE FRAME & COVER
NO SCALE

8 PIPE CROSSING DETAILS
1/4\"/>

MANHOLE COVER AND FRAME SHALL BE BY PARKER ON APPROVED EQUAL. COVERS SHALL BE HINGED AND INCORPORATE A 90 DEGREE BLOCKING SYSTEM USING STANDARD TOOLS AND SHALL BE CAPABLE OF WITHSTANDING A TEST LOAD OF 10,000 LBS.

FRAMES SHALL BE CIRCULAR, INCORPORATE A SLATING RING AND A FITTED PLUG. FRAME DEPTH SHALL NOT EXCEED 5 INCHES, AND THE FLANGE SHALL INCORPORATE BEDDING SLOTS, BOLT HOLES, AND LIFTING EYES. TWO (2) KEYS INCORPORATE PLUGS (5% OF TOTAL INSTALLED, 7 MINIMUM) TO BE PROVIDED TO THE CITY.

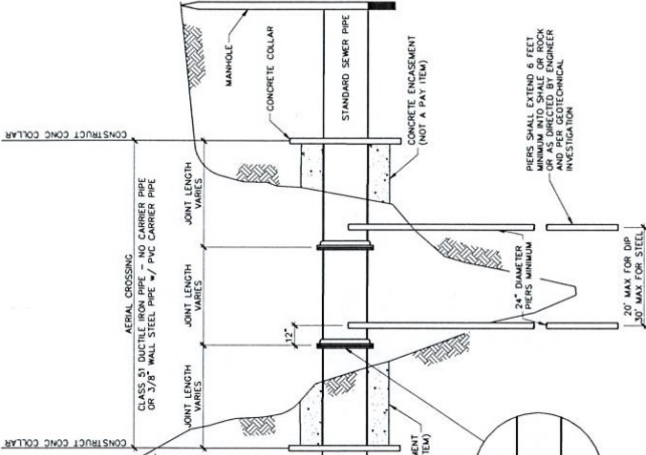
ALL COMPONENTS SHALL BE BLACK COATED.

COVER WEIGHT: 152 LBS.
FRAME WEIGHT: 152 LBS.
TOTAL WEIGHT: 299 LBS.

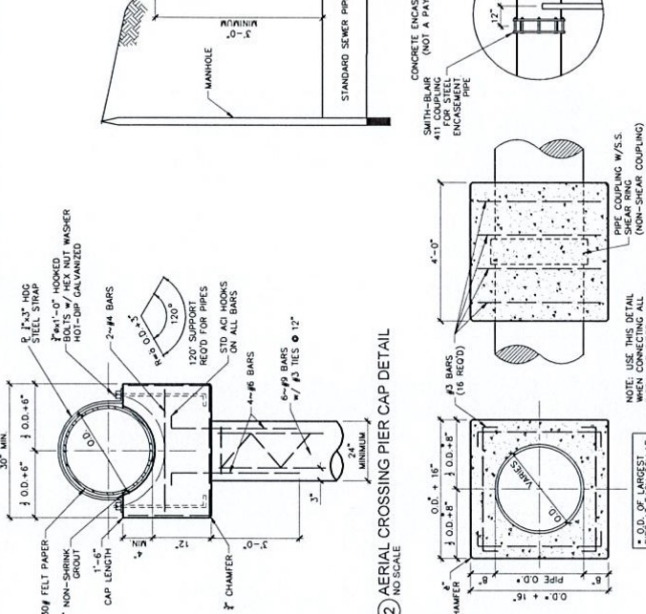
NOTE: USE FOR MANHOLES LARGER THAN 4\"/>

NOTE: USE FOR MANHOLES LARGER THAN 4\"/>

NOTE: AT CROSSINGS OF NEW WATER & SEWER LINES, THE WATER LINE MUST BE LOCATED ABOVE THE SEWER LINE, WHERE A NEW SEWER LINE CROSSES AN EXISTING WATER LINE, THE SEWER LINE SHALL BE LOCATED BELOW THE WATER LINE IF POSSIBLE.



1 SEWER LINE EMBEDMENT DETAILS
NO SCALE



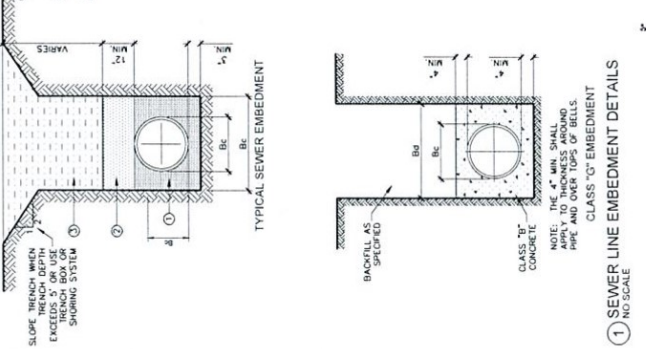
2 AERIAL CROSSING PIER CAP DETAIL
NO SCALE

MINIMUM TRENCH WIDTH FOR SDR 26 PVC SANITARY SEWER PIPE (INCHES)

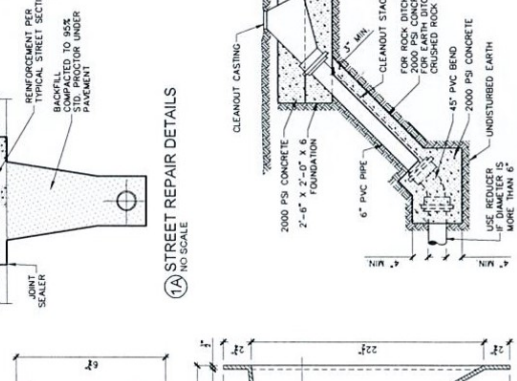
DEPTH OF COVER (FT.)	18\"/>
1	24
2	24
3	24
4	24
5	24
6	24
7	24
8	24
9	24
10	24
11	24
12	24
13	24
14	24
15	24
16	24
17	24
18	24
19	24
20	24
21	24
22	24
23	24
24	24
25	24
26	24
27	24
28	24
29	24
30	24

NOTES:
1. FOR DEPTHS OF COVER LESS THAN 2 FEET, CONCRETE SHALL BE PLACED TO PROVIDE UNIFORM SUPPORT OF PIPE BARRIL. EXCAVATE BELL ENDS TO PROVIDE UNIFORM SUPPORT OF PIPE BARRIL.
2. FOR DEPTHS OF COVER GREATER THAN 30 FEET AND FOR PIPE SIZES LARGER THAN 24 INCHES, A SPECIFIC EMBEDMENT DESIGN IS REQUIRED.

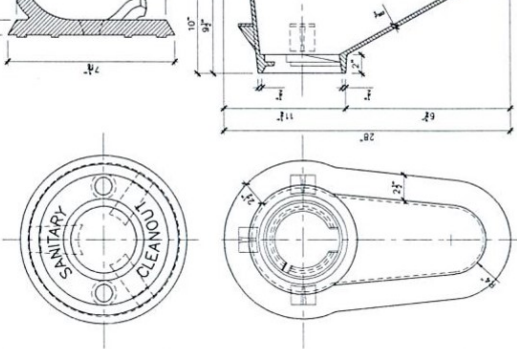
3 CONCRETE COLLAR DETAIL
NO SCALE



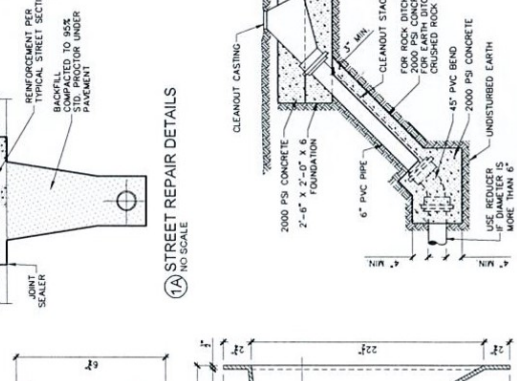
4 AERIAL CROSSING DETAIL
NO SCALE



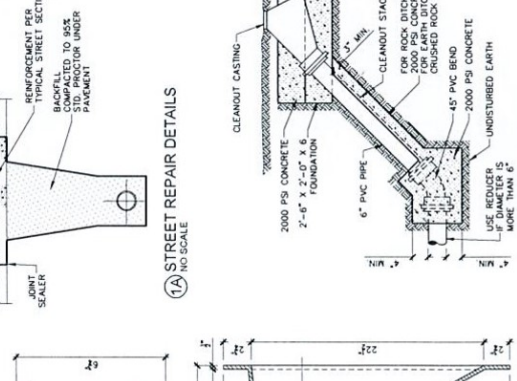
5 CLEANOUT FRAME & COVER
NO SCALE



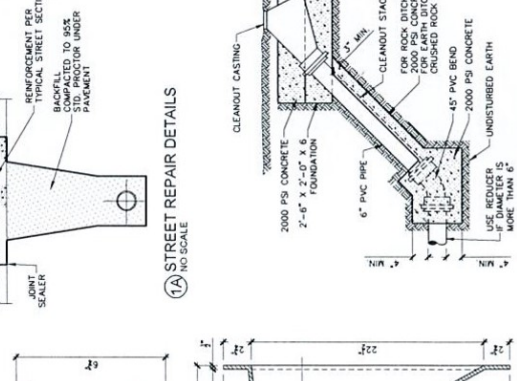
6 STREET REPAIR DETAILS
NO SCALE



7 SANITARY SEWER SERVICE
NO SCALE



8 P.V.C. DEEP CUT CONNECTION
NO SCALE



9 P.V.C. LATERAL CONNECTION @ DITCH W/ SLOPED SIDES
NO SCALE