12.0 STANDARD DETAILS INDEX

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G-200 SERIES, CONSTRUCTION PLANS PREPARATION

G-201	Typical Vicinity Map
G-202	Typical Approval Blocks
G-203	Permit Fee Schedules for Private Development Plans

G-300 SERIES, STREET DESIGN AND CONSTRUCTION

G-300	Ultimate Arterial Street Section and Right-of-Way Map
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G-303	Arterial Section A-3 and A-4
G-304	Collector Section C-1 and C-2
G-305	Collector Section C-3 and C-4
G-306	Local Street Section
G-313	Standard Utility Locations-Major Arterial and Arterial Streets
G-315	Standard Utility Locations-Collector Streets
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G-400 SERIES, TRAFFIC ENGINEERING

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G-407	Mid-Block Bus Pullout

G-410	Median Nose and Reverse Curve Details for Turn Lanes
G-434	Installation of Fire Lane Signs
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G-460	Barricading on Subdivision Streets

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G-600 SERIES, WATER MAIN DESIGN AND CONSTRUCTION

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G-601	Blocking for Water Gate Valves
G-605	Manhole for Butterfly Valves
G-607	Typical Valve Locations
G-642	Water Service Connections
G-643	Water Service and Sewer Service Locations
G-646	1" Combination Air Release/Vacuum Valve
G-650	Typical Hydrant Marker Location
G-660	Fire Hydrant Installation
G-662	Location for New Fire Hydrants
G-665	Fire Hydrant Installation with Conflicting Utility
G-667	Reduced Pressure Principle Backflow Prevention Assembly for Hydrant Meters
G-668	Double Check Valve Backflow Prevention Assembly 2-1/2 Inches and Less
G-669	Reduced Pressure Principle Backflow Prevention Assembly 2-1/2 Inches and Less
G-670	Double Check Valve Backflow Prevention Assembly 3 Inches and Larger
G-671	Reduced Pressure Principle Backflow Prevention Assembly For 3 Inches and Larger
G-672	Guard Post for Backflow Prevention Assembly
G-673	Metal Cage for Reduced Pressure Principle Backflow Prevention Assembly 2-1/2 Inches and Less
G-674	Turbo Meter Assembly 3, 4, or 6 Inch
G-676	Compound Meter Assembly 3, 4, or 6 Inch
G-690	Bedding and Backfill for Underground Facilities in City Right-of-Way and Easements

G-700 SERIES, SEWER MAIN DESIGN AND CONSTRUCTION

G-704	Manhole Cover Detail
G-705	Grease Interceptor RP-50
G-710	Laundry Waste Interceptor
G-720	Sand and Oil Interceptor
G-722	Sand and Oil Interceptor for a Service Station
G-723	Grease Interceptor 750-1500 Gallon
G-724	Grease/Oil Interceptor (Food Establishments)
G-725	Three Chamber Industrial Waste Interceptor
G-740	Control Sampling Vault

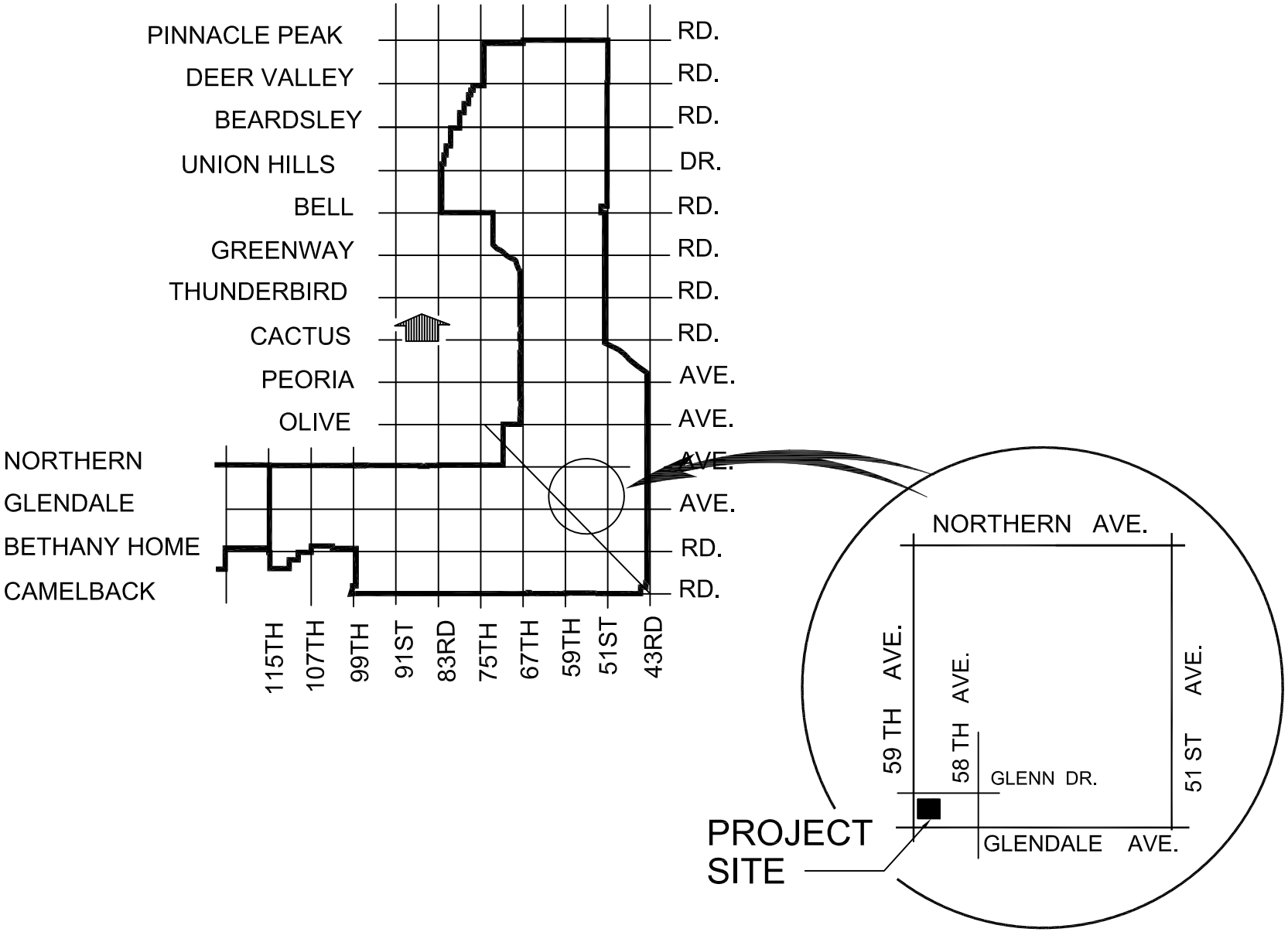
G-800 SERIES (NOT USED)

G-900 SERIES, SITE DEVELOPMENT AND CONSTRUCTION

G-934	Refuse Collection Enclosure Design and Construction
G-936	Refuse Collection Station, Design, Location and Construction (Roll Off)
G-954	360 Degree Turning Requirements for Fire Ladder Trucks

G-1000 SERIES, LANDSCAPE AND IRRIGATION

G-1007	Tree Slope Planting
G-1008	Tree Planting and Staking
G-1009	Shrub Planting
G-1012	Decomposed Granite
G-1014	Irrigation Water Control Swale
G-1020	Water System Schematic
G-1021	Isolation Valve Detail
G-1022	Trench Detail
G-1023	Multi-Outlet Emitter
G-1024	Emitter Control Valve Assembly
G-1025	Quick Coupler Assembly
G-1026	Flush End Cap Assembly
G-1040	Electric Controller Assembly
G-1042	Irrigation Controller Cage
G-1045	Electric Meter and Service Pedestal Mount
G-1046	Controller Wiring Schematic
G-1050	Basketball Court Layout and Striping
G-1051	Backboard, Pole and Foundation Detail
G-1052	Concrete Basketball Court



CITY OF GLENDALE STANDARD DETAIL	GLENDALE	**TYPICAL VICINITY MAP**
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014
		DETAIL NO. **G-201**

REQUIRED ON: COVER SHEET FOR CAPITAL IMPROVEMENT PROJECTS (CIP)

PLANS ACCEPTANCE
THE CITY OF GLENDALE ACCEPTS THESE PLANS FOR CONSTRUCTION, AS BEING IN GENERAL COMPLIANCE WITH PLAN PREPARATION REQUIREMENTS OF THE CITY. RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE PLANS AND RELATED DESIGNS RESIDES WITH THE ENGINEER AND THE ENGINEERING FIRM OF RECORD.

CITY ENGINEER _____ DATE _____

REQUIRED ON: ALL PRIVATE COVER SHEETS.

PLANS ACCEPTANCE
THE CITY OF GLENDALE ACCEPTS THESE PLANS FOR CONSTRUCTION, AS BEING IN GENERAL COMPLIANCE WITH PLAN PREPARATION REQUIREMENTS OF THE CITY. RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE PLANS AND RELATED DESIGNS RESIDES WITH THE ENGINEER AND THE ENGINEERING FIRM OF RECORD.

LAND DEVELOPMENT ENGINEER _____ DATE _____

TRANSPORTATION ENGINEER _____ DATE _____

REQUIRED ON: ALL COVER SHEETS FOR CAPITAL IMPROVEMENT PROJECTS (CIP)

RECORD DRAWING
I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS, AND RECORD DRAWING COMMENTS ACCURATELY REFLECT THE EXISTING FIELD CONDITIONS AND MATERIALS ACTUALLY USED DURING CONSTRUCTION. THIS CERTIFICATION IS BASED ON PERIODIC FIELD OBSERVATIONS AND THE CONTRACTOR'S REPRESENTATIONS OF THE FACILITIES AS CONSTRUCTED.

NAME _____ DATE _____
REGISTRATION NO. _____ EXP. DATE _____

REVD. BY: _____
ENGINEERING DEPARTMENT

REQUIRED ON: ALL COVER SHEETS FOR PRIVATE DEVELOPEMENT PLANS

RECORD DRAWING
I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS, AND RECORD DRAWING COMMENTS ACCURATELY REFLECT THE EXISTING FIELD CONDITIONS AND MATERIALS ACTUALLY USED DURING CONSTRUCTION. THIS CERTIFICATION IS BASED ON INFORMATION OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NAME _____ DATE _____
REGISTRATION NO. _____ EXP. DATE _____

REVD. BY: _____
ENGINEERING DEPARTMENT

REQUIRED ON: WATER & SEWER COVER SHEETS FOR CIP & PRIVATE PLANS

BY: _____ DATE _____
MARICOPA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

REQUIRED ON: STORM WATER POLLUTION PREVENTION PLANS COVER SHEET

REVIEWED BY:

LAND DEVELOPMENT ENGINEER _____ DATE _____

REQUIRED ON: ALL PRIVATE PLAN COVER SHEETS

ARIZONA PUBLIC SERVICE - ELECTRICAL
SOUTHWEST GAS CORPORATION - GAS
SALT RIVER PROJECT - IRRIGATION
SALT RIVER PROJECT - ELECTRICAL
QWEST COMMUNICATIONS - TELEPHONE
COX COMMUNICATIONS - CABLE TV (OTHER)
** AGENCIES ALSO REQUIRING PERMITS WHEN INVOLVED ARE: MARICOPA COUNTY HIGHWAY DEPT., A.D.O.T., CITY OF PHOENIX, CITY OF PEORIA, SANTA FE RAILROAD, EL PASO NATURAL GAS, & MARICOPA COUNTY FLOOD CONTROL DISTRICT.

PLANS SUBMITTED TO (NAME)	PLANS REVIEWED BY (NAME)	PERMIT RECEIVED DATE

DRYWELL CERTIFICATION: REQUIRED ON GRADING & DRAINAGE COVER SHEET FOR CIP & PRIVATE PLANS

DRYWELL CERTIFICATION
I CERTIFY THAT ALL DRYWELLS HAVE BEEN REGISTERED WITH AND CONFORM TO ALL REQUIREMENTS OF THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ).

NAME _____ DATE _____

COMPANY: _____

CITY OF GLENDALE STANDARD DETAIL

GLENDALE

TYPICAL APPROVAL BLOCKS

APPROVED BY: CITY ENGINEER David D. Beard, P.E.

DATE : 9/15/2014
REVISED: MARCH 2014

DETAIL NO. **G-202**

QUANTITIES BELOW ARE TO BE PLACED ON THE COVER SHEET OR DETAIL SHEET OF ALL PLANS INVOLVING IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN WATER AND SEWER EASEMENTS DEDICATED TO THE CITY OF GLENDALE. QUANTITIES SHOULD ONLY REFLECT THOSE ITEMS CONSTRUCTED WITHIN THE PUBLIC RIGHT-OF-WAY, EXCEPT FOR GRADING AND DRAINAGE QUANTITIES.

STREET IMPROVEMENT PERMIT FEE (PAVING)

BASE FEE	_____	EA
ASPHALT + CONCRETE PAVEMENT	_____	SY
MANHOLE/VALVE ADJUSTMENT	_____	EA
STREET LIGHTS	_____	EA

STREET IMPROVEMENT PERMIT FEE (CONCRETE)

BASE FEE	_____	EA
SAWCUTS IN EXISTING CURB	_____	EA
CURB AND GUTTER	_____	LF
VALLEY GUTTER	_____	SF
SIDEWALKS	_____	SF
SIDEWALK RAMPS	_____	EA
DRIVEWAY	_____	EA
CATCH BASIN/SCUPPER	_____	EA

TO BE PLACED ON THE COVER OF LANDSCAPE PLAN:
LANDSCAPE PERMIT FEE

BASE FEE	_____	EA
LANDSCAPE AREA	_____	SF

GRADING & DRAINAGE PERMIT FEE
(ON PRIVATE PROPERTY ONLY - DO NOT INCLUDE IMPROVEMENTS LOCATED IN THE RIGHT-OF-WAY)

BASE FEE	_____	EA
ON-SITE PAVING	_____	SY
CATCH BASIN/SCUPPER	_____	EA
MANHOLE/DRYWELL	_____	EA
STORM DRAIN PIPE (12"+)	_____	LF

WATER LINES (8"+)

_____ LF OF	_____	INCH DIA. (PIPE MATERIAL)
_____ LF OF	_____	INCH DIA. (PIPE MATERIAL)
_____ LF OF	_____	INCH DIA. (PIPE MATERIAL)
_____ LF OF	_____	INCH DIA. (PIPE MATERIAL)
_____ EA		FIRE HYDRANTS

SANITARY SEWER (8"+)

_____ LF OF	_____	INCH DIA. (PIPE MATERIAL)
_____ LF OF	_____	INCH DIA. (PIPE MATERIAL)
_____ LF OF	_____	INCH DIA. (PIPE MATERIAL)
_____ LF OF	_____	INCH DIA. (PIPE MATERIAL)
_____ EA		MANHOLES

UTILITY PERMIT FEE (WATER)

BASE FEE	_____	EA
TRENCH	_____	LF
WET TAPS	_____	EA

UTILITY PERMIT FEE (SEWER)

BASE FEE	_____	EA
TRENCH	_____	LF
WET TAPS	_____	EA

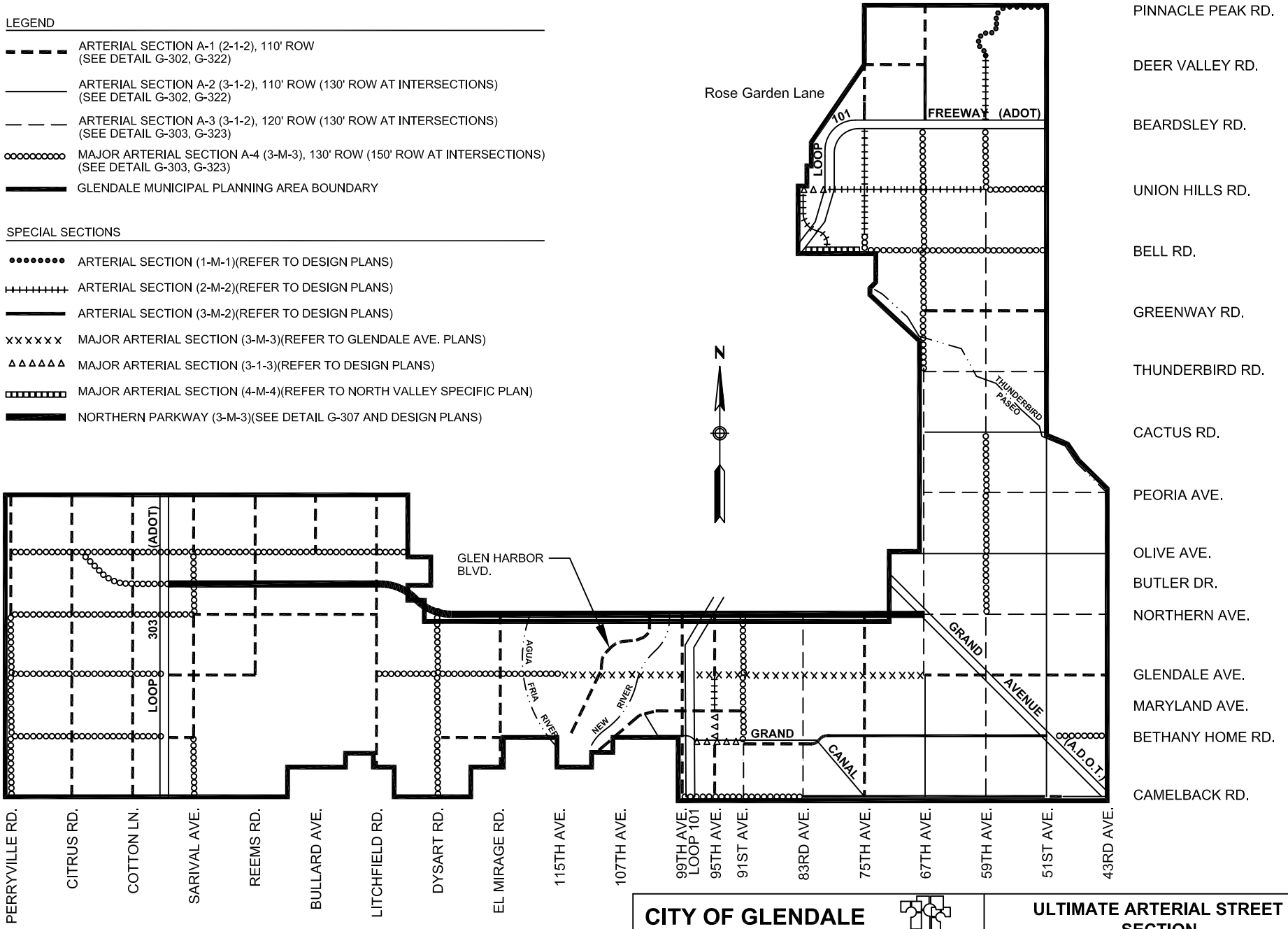
CITY OF GLENDALE STANDARD DETAIL	GLENDALE	PERMIT FEE SCHEDULES FOR PRIVATE DEVELOPMENT PLANS
APPROVED BY: CITY ENGINEER — David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-203

LEGEND

- ARTERIAL SECTION A-1 (2-1-2), 110' ROW (SEE DETAIL G-302, G-322)
- ARTERIAL SECTION A-2 (3-1-2), 110' ROW (130' ROW AT INTERSECTIONS) (SEE DETAIL G-302, G-322)
- ARTERIAL SECTION A-3 (3-1-2), 120' ROW (130' ROW AT INTERSECTIONS) (SEE DETAIL G-303, G-323)
- MAJOR ARTERIAL SECTION A-4 (3-M-3), 130' ROW (150' ROW AT INTERSECTIONS) (SEE DETAIL G-303, G-323)
- GLENDALE MUNICIPAL PLANNING AREA BOUNDARY

SPECIAL SECTIONS

- ARTERIAL SECTION (1-M-1)(REFER TO DESIGN PLANS)
- ARTERIAL SECTION (2-M-2)(REFER TO DESIGN PLANS)
- ARTERIAL SECTION (3-M-2)(REFER TO DESIGN PLANS)
- MAJOR ARTERIAL SECTION (3-M-3)(REFER TO GLENDALE AVE. PLANS)
- MAJOR ARTERIAL SECTION (3-1-3)(REFER TO DESIGN PLANS)
- MAJOR ARTERIAL SECTION (4-M-4)(REFER TO NORTH VALLEY SPECIFIC PLAN)
- NORTHERN PARKWAY (3-M-3)(SEE DETAIL G-307 AND DESIGN PLANS)



CITY OF GLENDALE STANDARD DETAIL

GLENDALE

ULTIMATE ARTERIAL STREET SECTION AND RIGHT-OF-WAY MAP

APPROVED BY: CITY ENGINEER — David D. Beard, P.E.

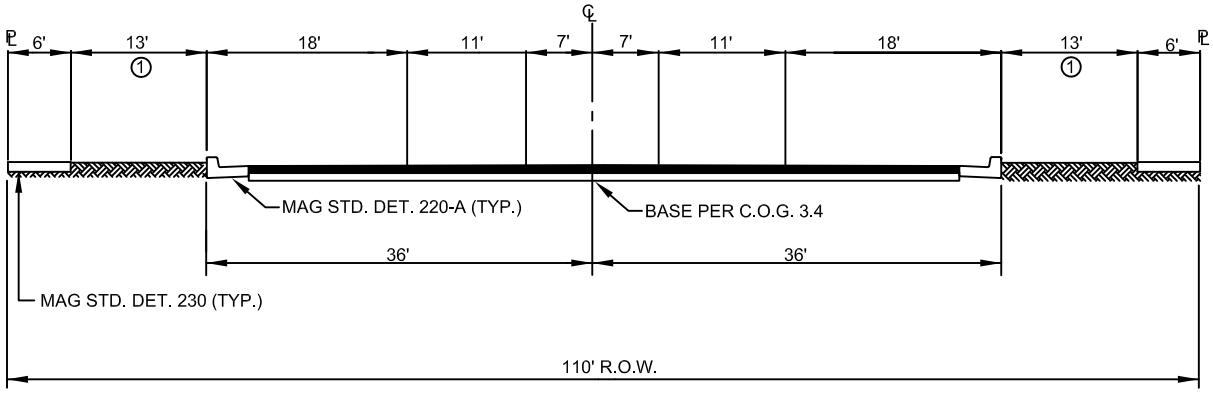
DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO. **G-300**

ARTERIAL SECTION A-1

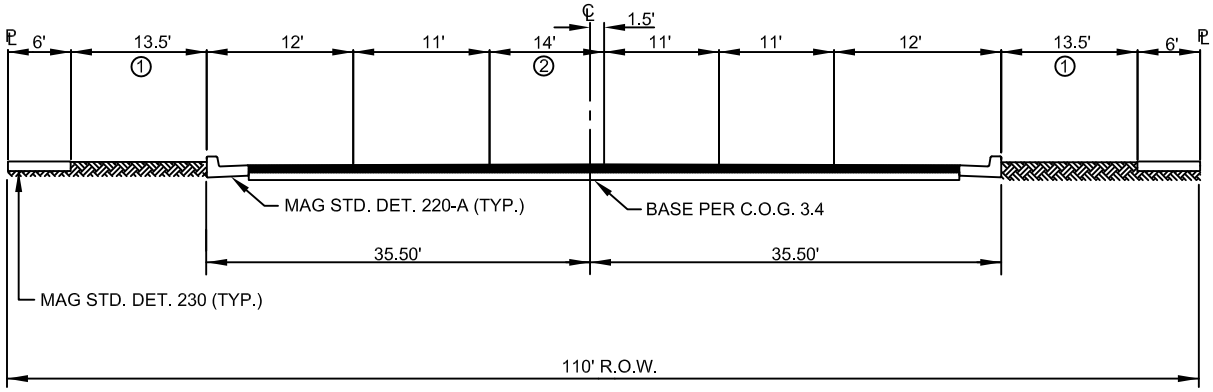
(SEE PARA. 4.12.A.)



① VARIES, 7 FOOT MINIMUM FOR LANDSCAPING.
② CENTER TURN LANE; 14 FOOT MEDIAN IS OPTIONAL ON ARTERIALS.
③ CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE RIGHT-OF-WAY AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS (I.E. POWER POLES, WELL SITES, ETC.)

MAJOR ARTERIAL SECTION A-2

(SEE PARA. 4.12.B.)

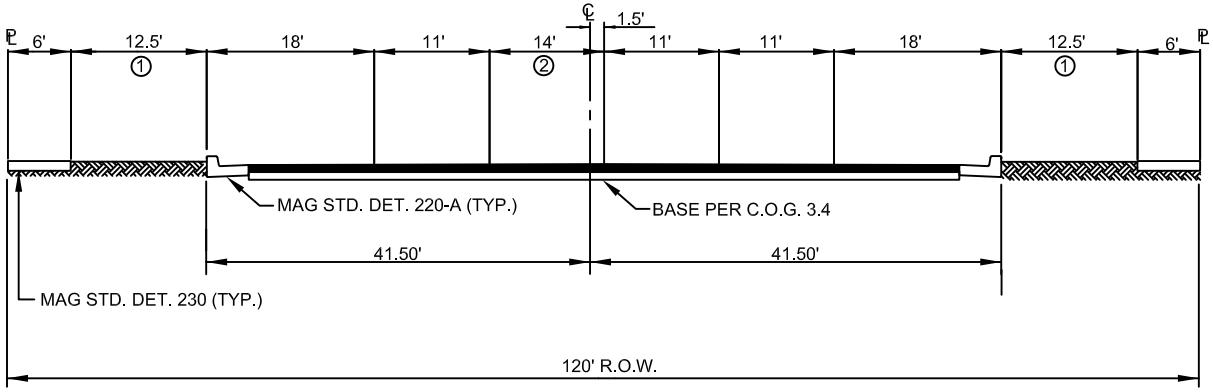


① VARIES, 7 FOOT MINIMUM FOR LANDSCAPING.
② CENTER TURN LANE; 14 FOOT MEDIAN IS OPTIONAL ON ARTERIALS.
③ CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

CITY OF GLENDALE STANDARD DETAIL		ARTERIAL SECTION A-1 AND A-2	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-302

ARTERIAL SECTION A-3

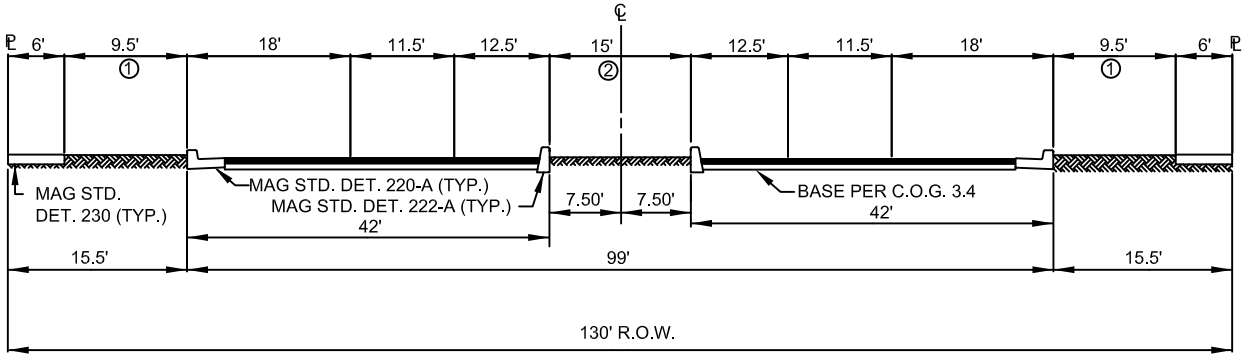
(SEE PARA. 4.12.C.)



① VARIES, 7 FOOT MINIMUM FOR LANDSCAPING.
② CENTER TURN LANE; 15 FOOT RAISED MEDIAN MAY BE REQUIRED BY CITY OF GLENDALE ON ARTERIALS.
③ CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE RIGHT-OF-WAY AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS (I.E. POWER POLES, WELL SITES, ETC.)

MAJOR ARTERIAL SECTION A-4

(SEE PARA. 4.12.D.)

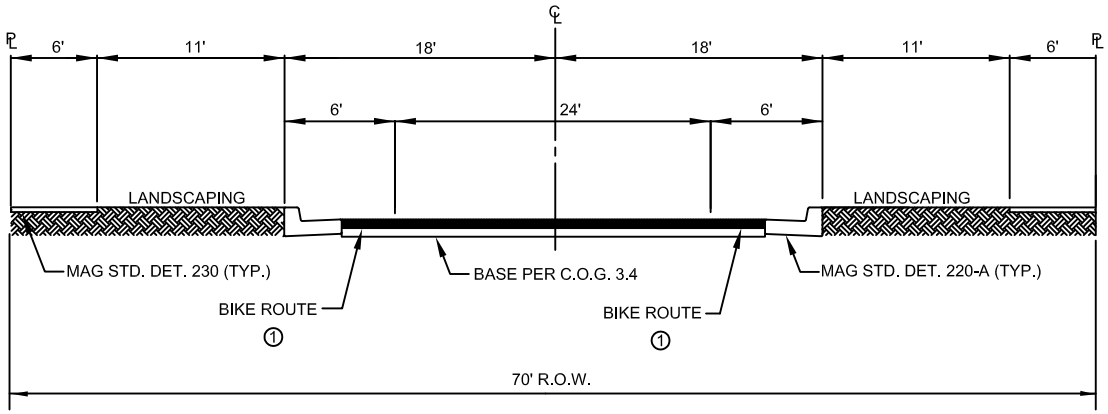


① VARIES, 7 FOOT MINIMUM FOR LANDSCAPING.
② RAISED MEDIAN IS REQUIRED ON MAJOR ARTERIALS.
③ CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**ARTERIAL SECTION A-3 AND A-4**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-303**

COLLECTOR SECTION C-1

(SEE PARA. 4.14.A.)

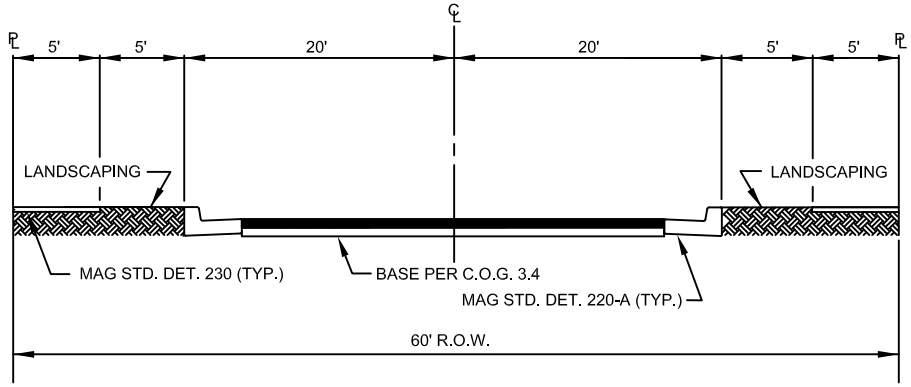


① OPTIONAL; AS REQUIRED BY THE ADOPTED BIKE PLAN OR CITY TRAFFIC ENGINEER.

② CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

COLLECTOR SECTION C-2

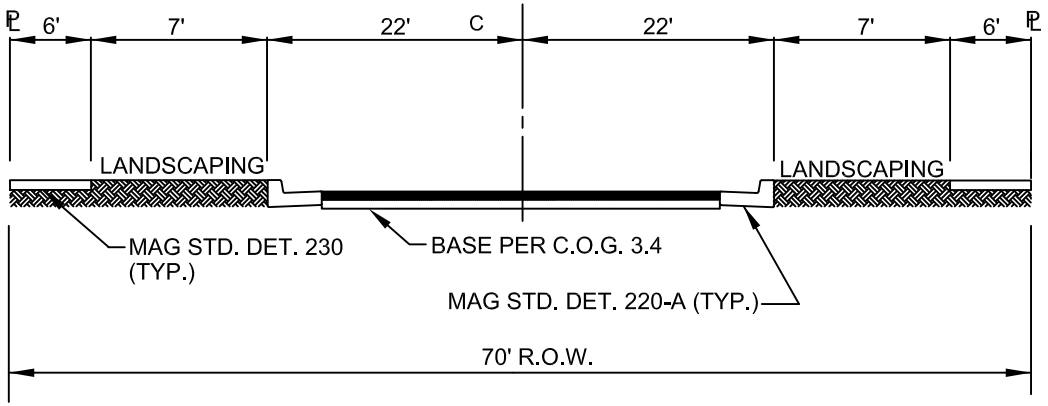
(SEE PARA. 4.14.B.)



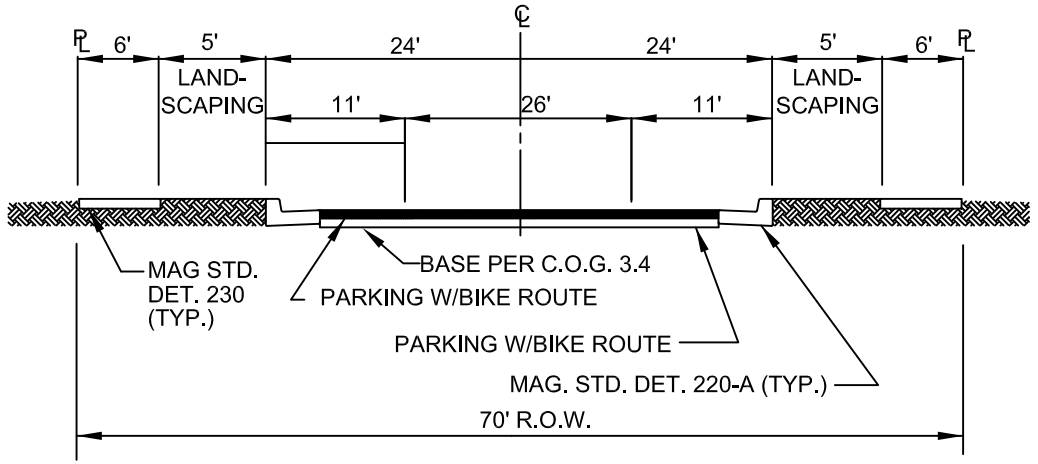
① CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**COLLECTOR SECTION C-1 AND C-2**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-304**

COLLECTOR SECTION C-3
(SEE PARA. 4.14.C.)



COLLECTOR SECTION C-4
(SEE PARA. 4.14.D.)

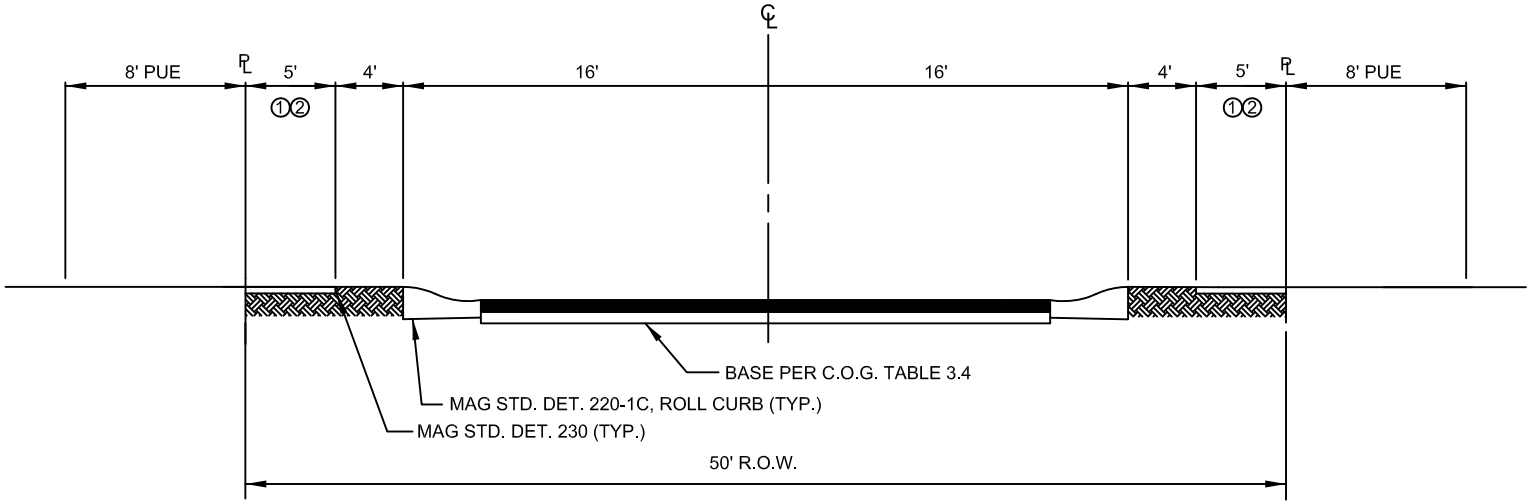


① CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**COLLECTOR SECTION C-3 AND C-4**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-305**

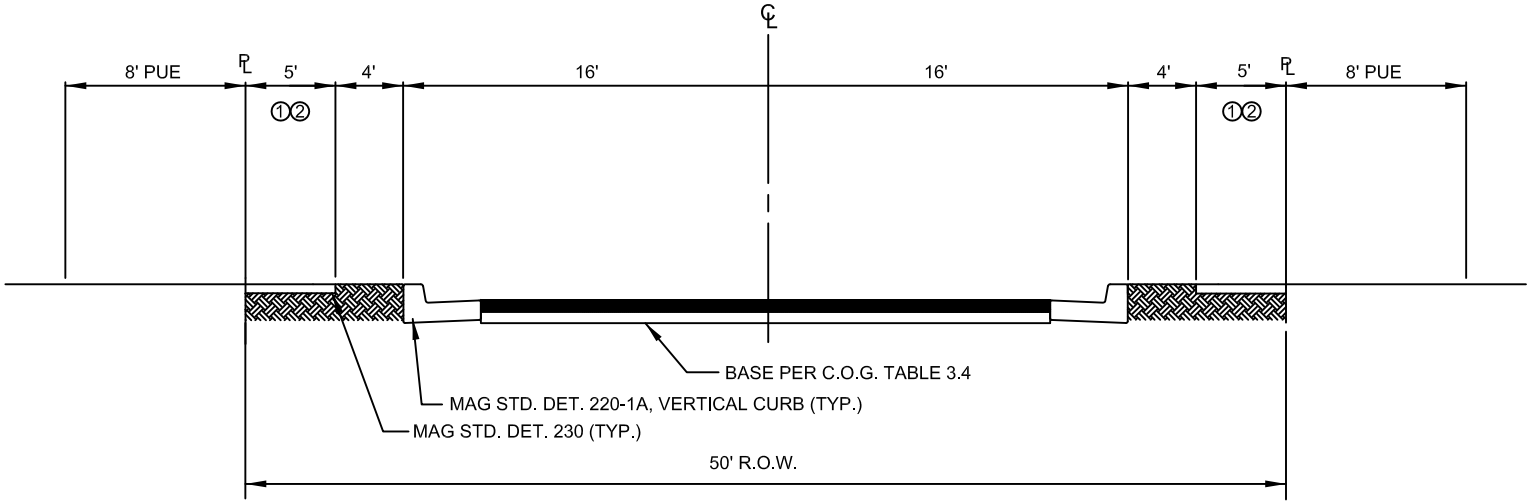
LOCAL SECTION L-1

(SEE PARA. 4.16)



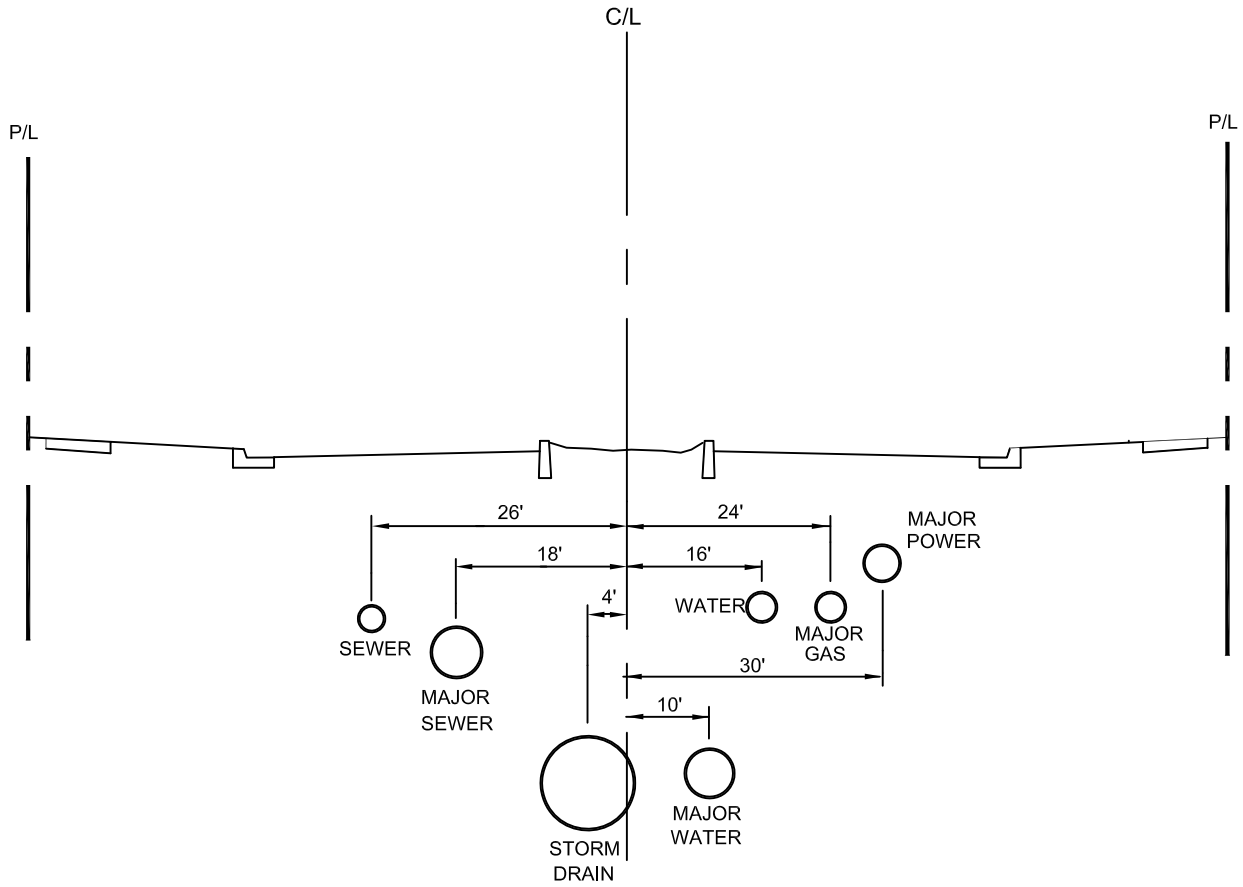
LOCAL SECTION L-2

(SEE PARA. 4.16)



① 5 FOOT SIDEWALKS ARE REQUIRED AS A MINIMUM WIDTH ON ALL PUBLIC ROADWAYS.
② THE SIDEWALK CAN BE ATTACHED TO THE CURB.
③ CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

CITY OF GLENDALE STANDARD DETAIL		LOCAL STREET SECTION	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-306

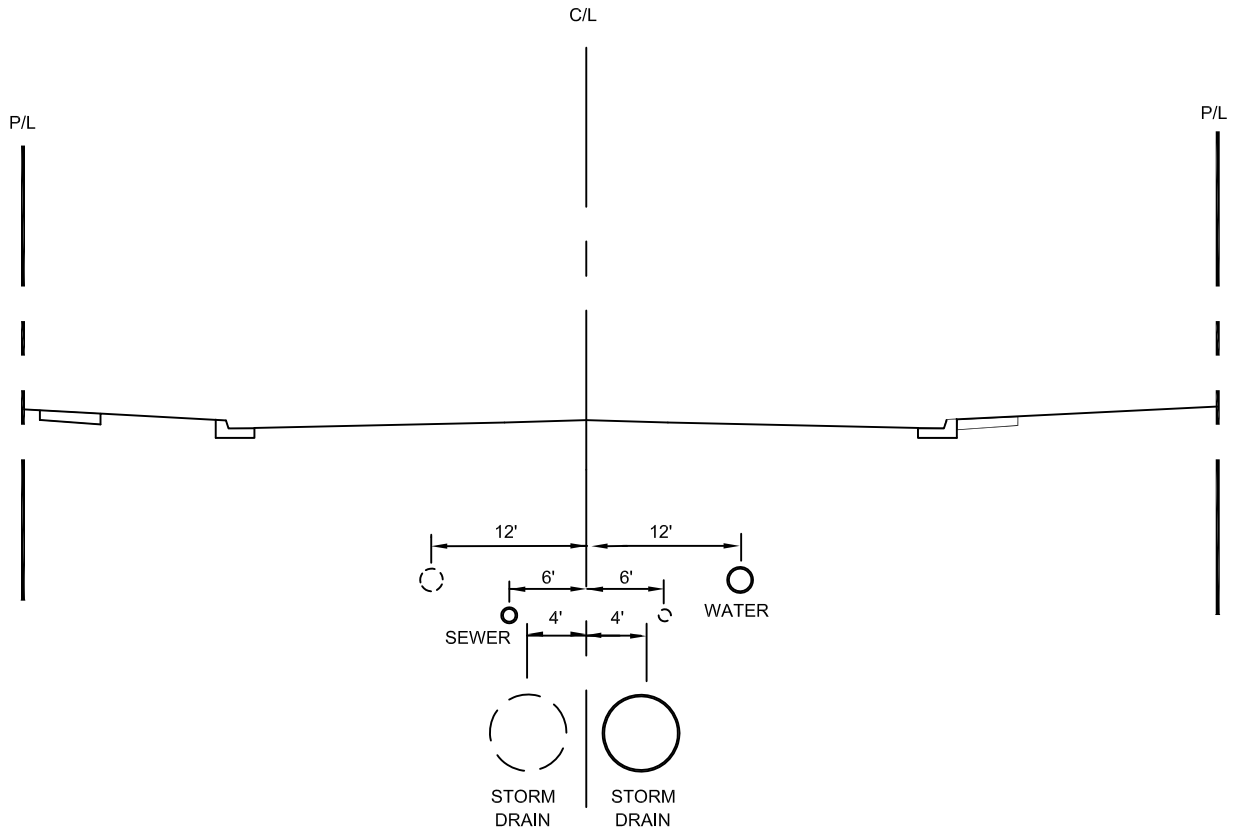


NOTES:

1. ALL UTILITIES NOT SHOWN, e.g. ELECTRIC, GAS, ETC., SHALL BE PLACED IN ADJACENT PUBLIC UTILITY EASEMENTS (P.U.E.).

2. ALL CITY OWNED UTILITY LINES SHALL MAINTAIN A 6' (MIN,) HORIZONTAL CLEARANCE FROM EACH OTHER AND ALL OTHER UNDERGROUND UTILITY LINES.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**STANDARD UTILITY LOCATIONS MAJOR ARTERIAL AND ARTERIAL STREETS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-313**

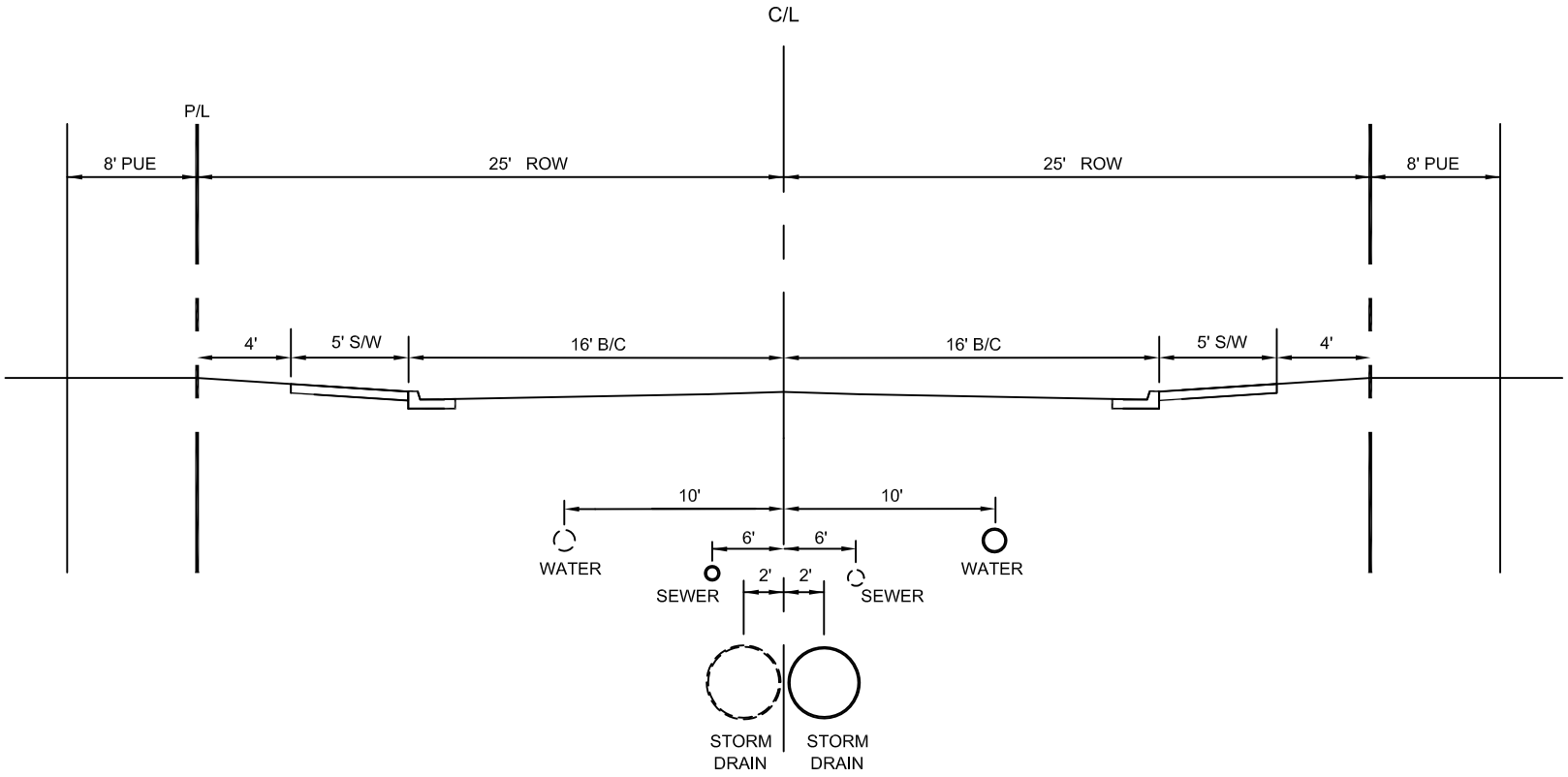


NOTES:

1. ALL CITY OWNED UTILITY LINES SHALL MAINTAIN A 6' (MIN.) HORIZONTAL CLEARANCE FROM EACH OTHER AND ALL OTHER UNDERGROUND UTILITY LINES

2. ALL UTILITIES NOT SHOWN, e.g. ELECTRIC, GAS, ETC., SHALL BE PLACED IN ADJACENT PUBLIC UTILITY EASEMENTS (P.U.E.).

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**STANDARD UTILITY LOCATIONS COLLECTOR STREETS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-315**



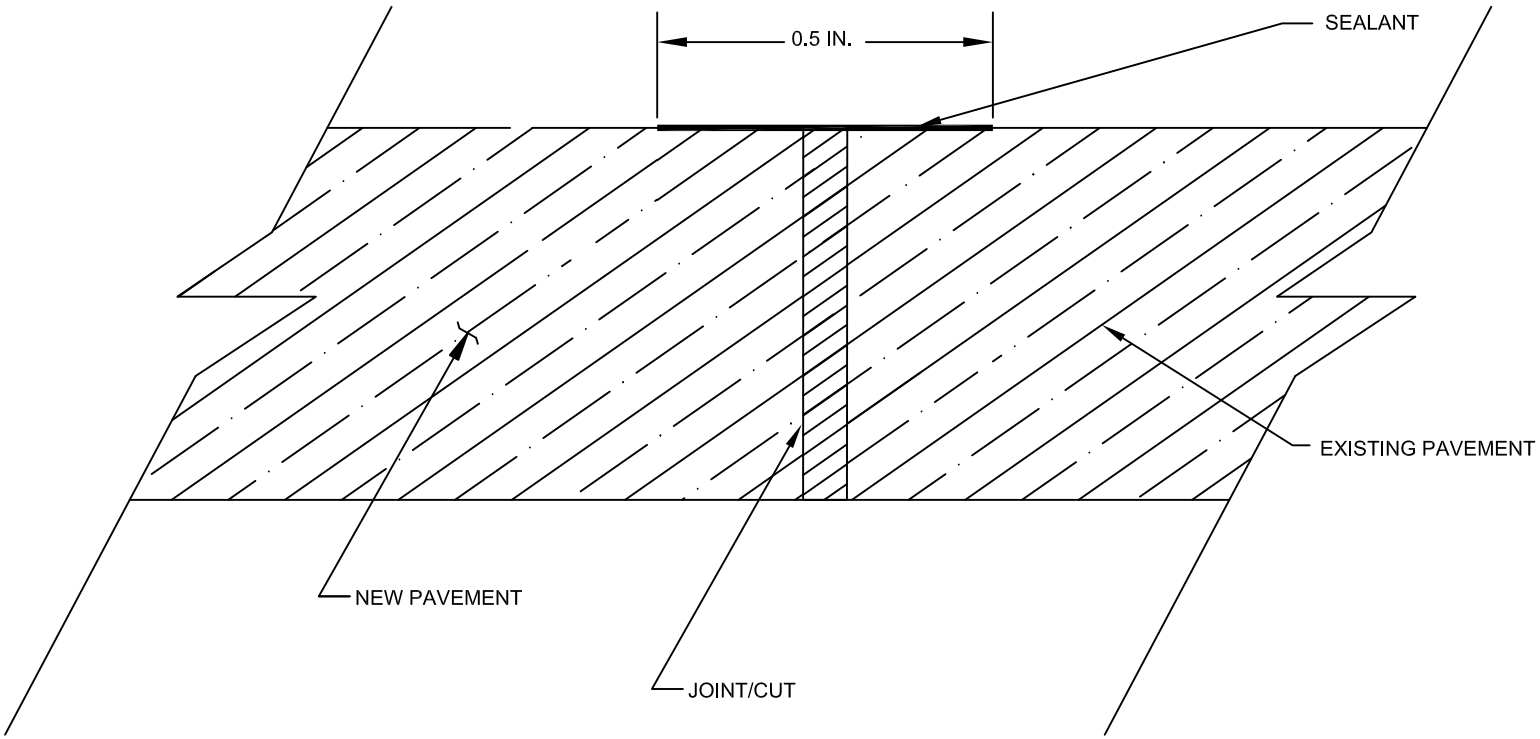
NOTES:

1. WATER AND SEWER MAY BE ON THE SAME SIDE OF STREET CENTERLINES WHEN ONLY HALF OF THE STREET RIGHT-OF-WAY IS DEDICATED.

2. ALL CITY OWNED UTILITY LINES SHALL MAINTAIN A 6' (MIN.) HORIZONTAL CLEARANCE FROM EACH OTHER AND ALL OTHER UNDERGROUND UTILITY LINES

3. ALL OTHER (ELECTRIC, GAS, ETC.,) SHALL BE PLACED IN THE 8 FOOT PUBLIC UTILITY EASEMENTS (P.U.E.).

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**STANDARD UTILITY LOCATIONS LOCAL STREETS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-316**



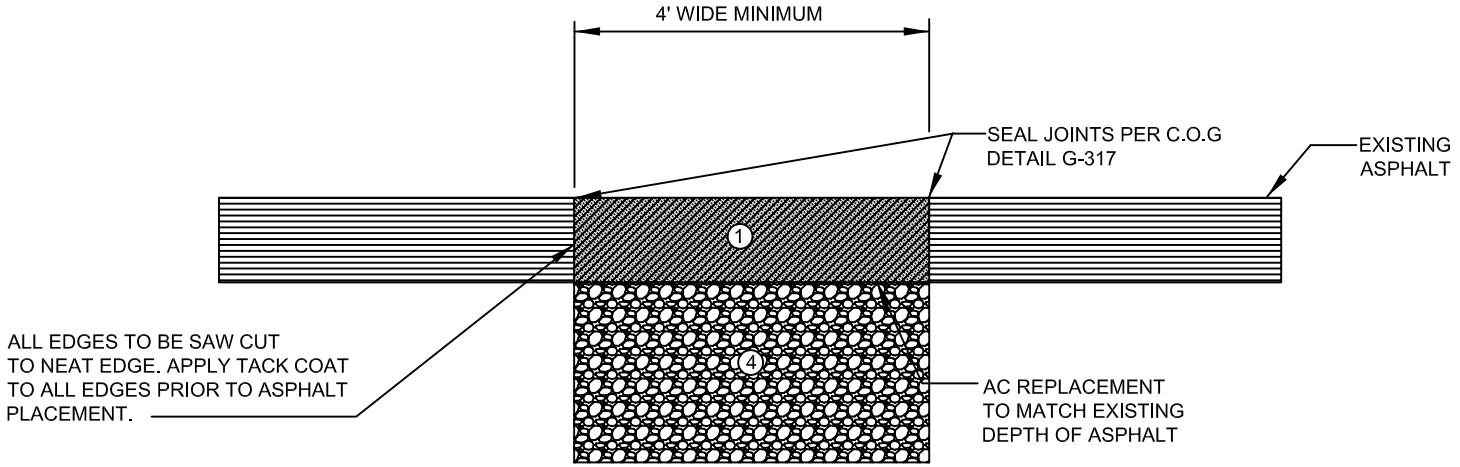
N.T.S.

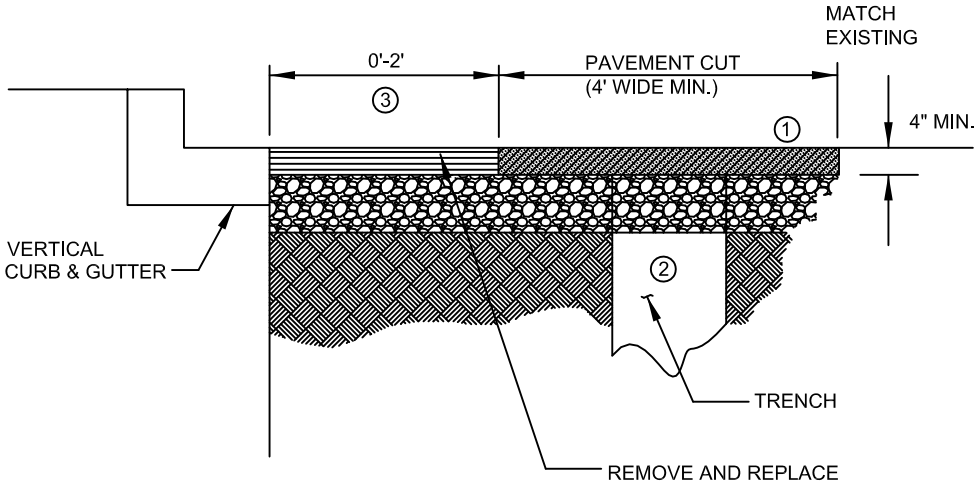
NOTES:

JOINT/CUT SEALANT PROCEDURE

1. AFTER PATCH HAS BEEN SUBJECTED TO TRAFFIC FOR AT LEAST ONE WEEK.
2. CLEAN OUT THE PREPARED JOINT/CUT BY USING FORCED AIR (65 PSI) WITH A DOWNWARD BLAST INTO THE JOINT AND A VACUUM ATTACHMENT TO VACUUM THE DEBRIS RELEASED.
3. CLEANED JOINT/CUT SHALL BE FREE OF ALL DIRT, DUST, DEBRIS AND MOISTURE IMMEDIATELY PRIOR TO SEALING.
4. FILL JOINT/CUT WITH CRAFCO TYPE III CRACK SEAL OR EQUAL AS APPROVED BY THE CITY OF GLENDALE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
5. THIS PROCEDURE IS REQUIRED WHEN THE PLACEMENT OF NEW PAVEMENT IS INTERCONNECTING TO EXISTING PAVEMENT, OR AS DIRECTED BY THE CITY ENGINEER OR HIS REPRESENTATIVE.

CITY OF GLENDALE STANDARD DETAIL		PAVEMENT JOINT SEALANT DETAIL	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-317



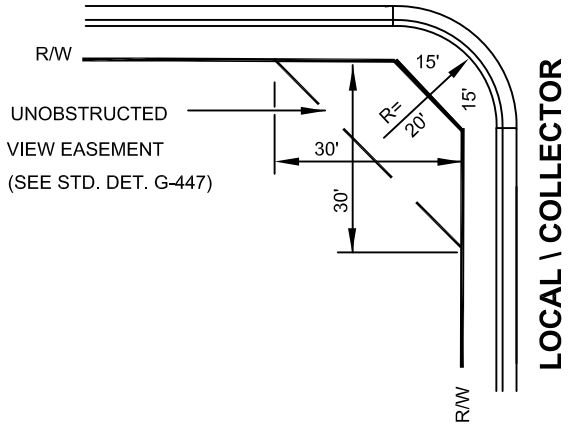


NOTES:

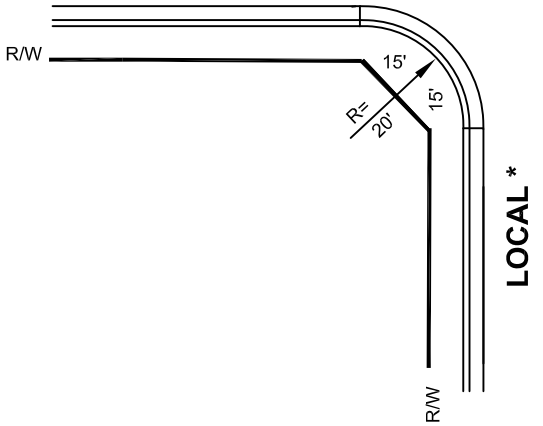
1. FOR PAVEMENT REPLACEMENT ASSOCIATED WITH UTILITY INSTALLATIONS, SEE C.O.G. DETAIL G-690 FOR BEDDING AND BACKFILL REQUIREMENTS.
2. IF NEW PAVEMENT CUT IS 2' OR LESS FROM EXISTING LIP OF CURB OR EDGE OF ROADWAY, THE ENTIRE EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED. SURFACE REPLACEMENT SHALL BE DONE AT THE SAME TIME TO PROVIDE A NEAT SURFACE FROM OUTSIDE EDGE TO INSIDE EDGE.
3. FOR PAVEMENT REPLACEMENT ADJACENT TO EXISTING OR NEW CONCRETE, ABC DEPTH TO MATCH EXISTING DEPTH.
4. FULL DEPTH SAW CUT OF EXISTING AC UNLESS OTHERWISE DIRECTED BY ENGINEERING INSPECTOR.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**ASPHALT REMOVAL/REPLACEMENT REQUIREMENTS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-319**

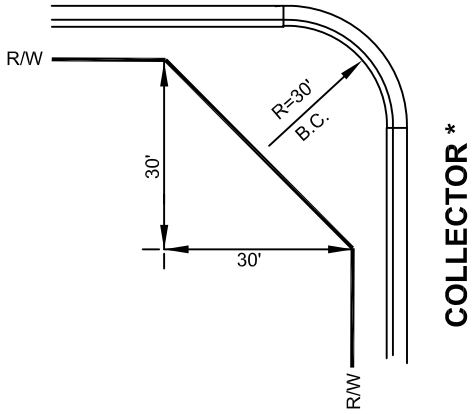
LOCAL \ COLLECTOR



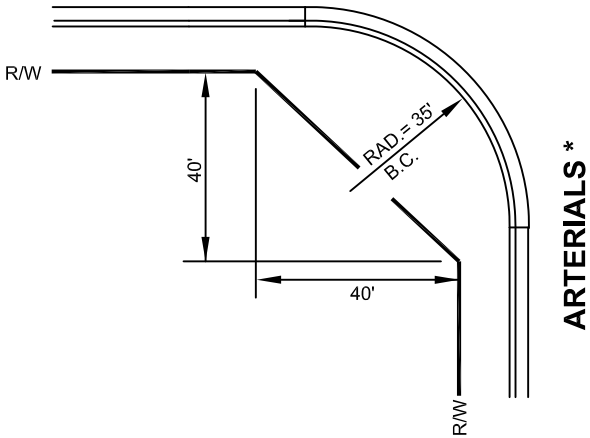
ARTERIAL



ARTERIAL



ARTERIALS *

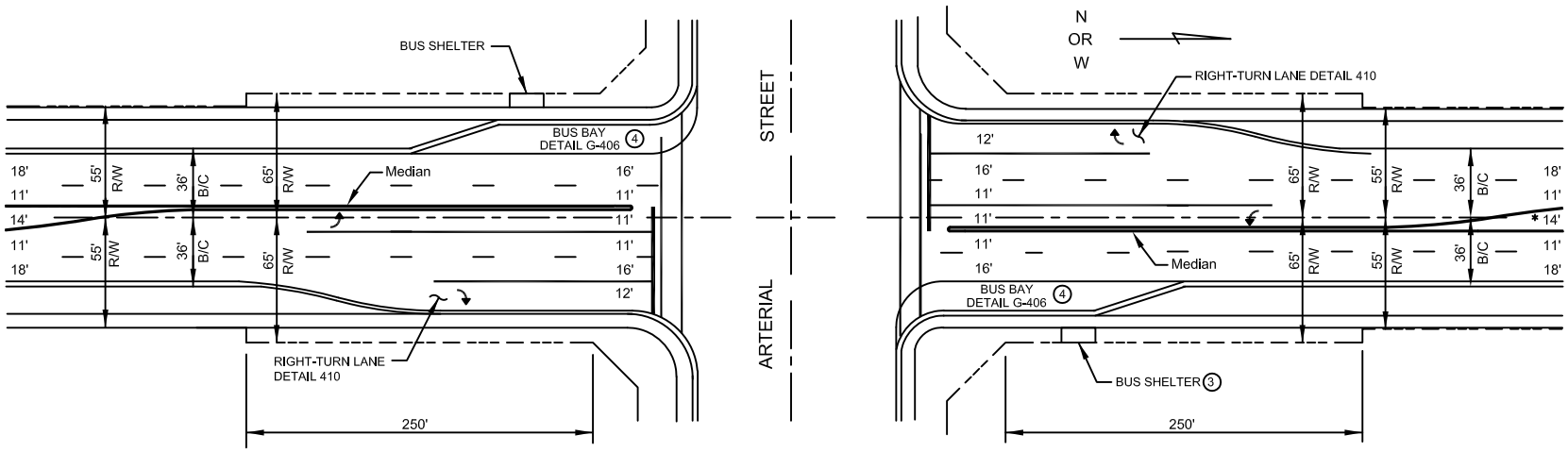


ADDITIONAL CORNER RIGHT OF WAY MAY BE REQUIRED FOR TRAFFIC SIGNAL LOCATIONS

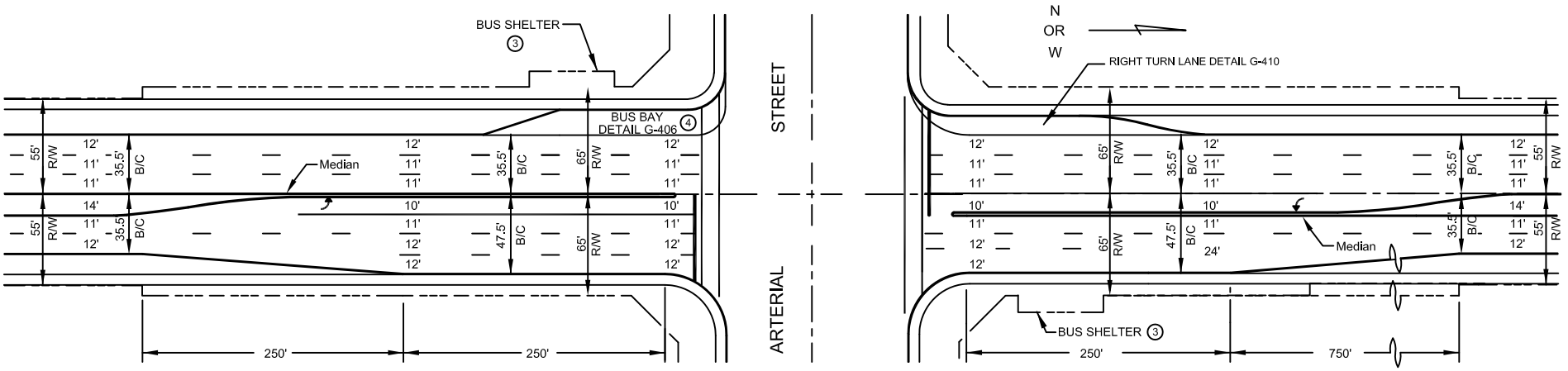
* SEE SIGHT DISTANCE REQUIREMENTS STD. DET. G-448

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**CORNER RADII RIGHT OF WAY DEDICATIONS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-321**

ARTERIAL INTERSECTION A-1



ARTERIAL INTERSECTION A-2

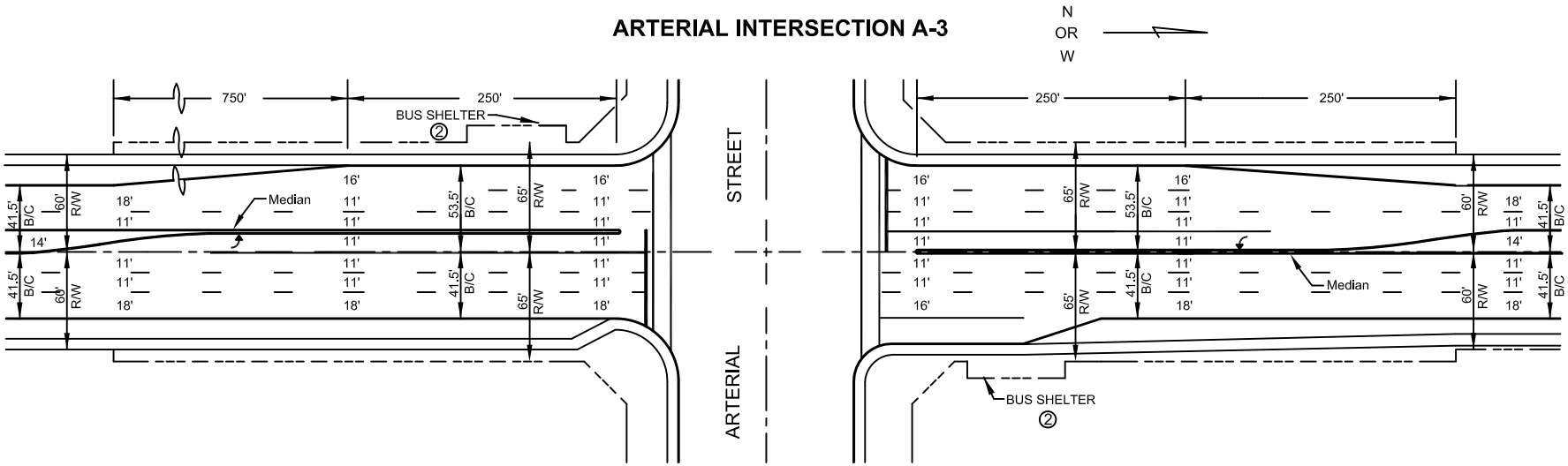


① CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)
② ALL DIMENSIONS ARE MEASURED FROM B/C OR CENTER OF STRIPE.
③ BUS SHELTER LOCATION REQUIRES A 10'X50' R/W NOTCH FOR THE CONCRETE PAD.
④ BUS BAY MAY BE "MID-BLOCK" TYPE PER COG STANDARD DETAIL G-407

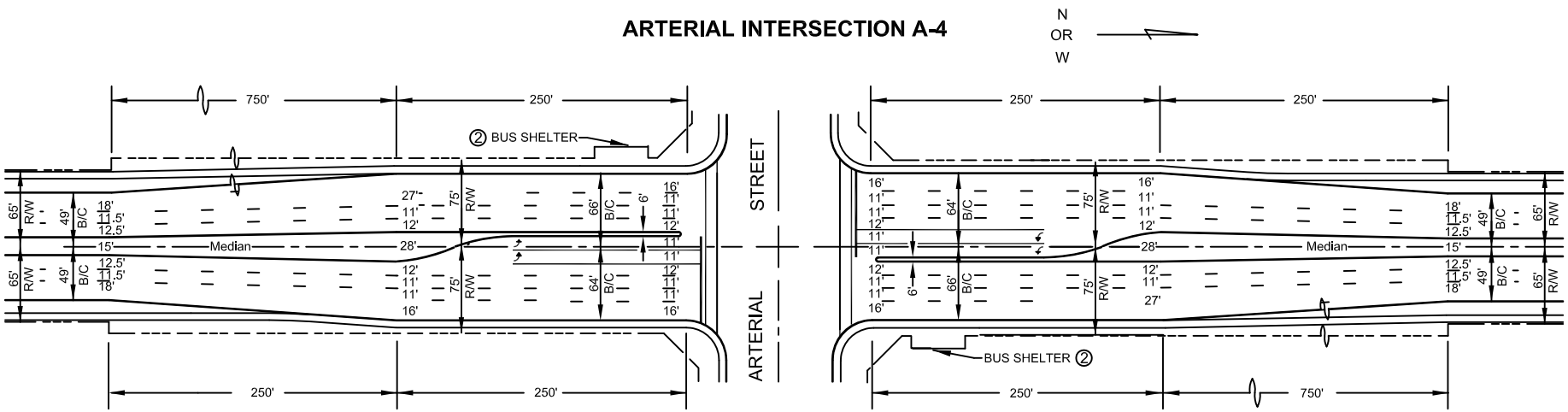
NOT TO SCALE

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	THROAT WIDENING FOR ARTERIAL INTERSECTION A-1 AND A-2	
APPROVED BY: CITY ENGINEER David D. Beard, P.E.		DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-322

ARTERIAL INTERSECTION A-3



ARTERIAL INTERSECTION A-4

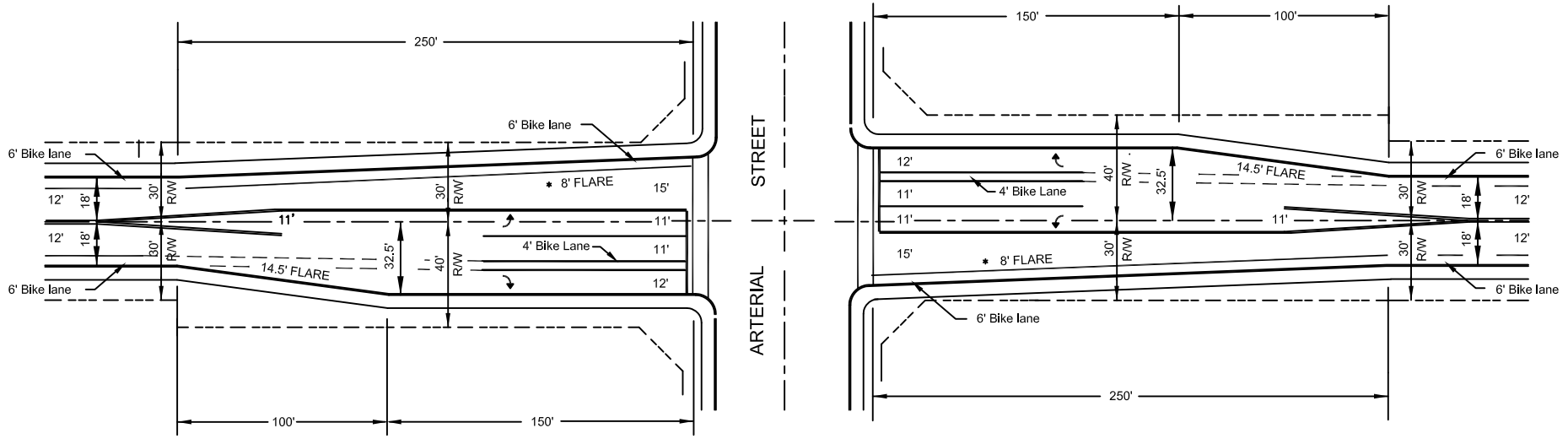


① CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)
② BUS SHELTER LOCATION REQUIRES A 10' X 50' R/W.
③ ALL DIMENSIONS ARE MEASURED FROM B/C OR CENTER OF STRIPE.

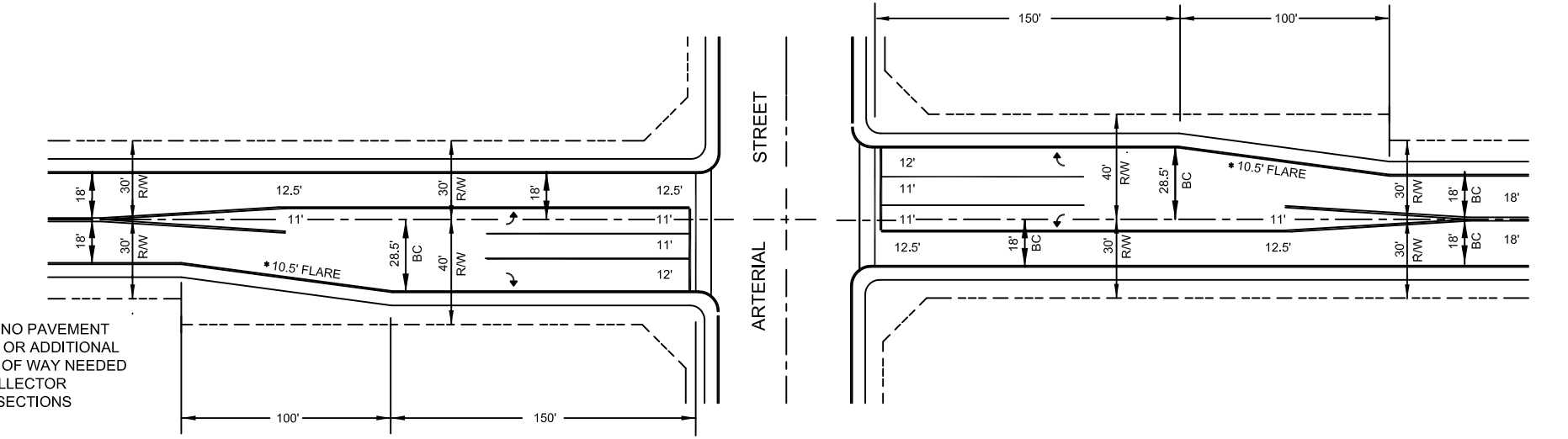
NOT TO SCALE

CITY OF GLENDALE STANDARD DETAIL		THROAT WIDENING FOR ARTERIAL INTERSECTION A-3 AND A-4	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH, 2014	DETAIL NO. G-323

C–1 COLLECTOR INTERSECTING ARTERIAL WITH BIKE LANES



C–1 COLLECTOR INTERSECTING ARTERIAL



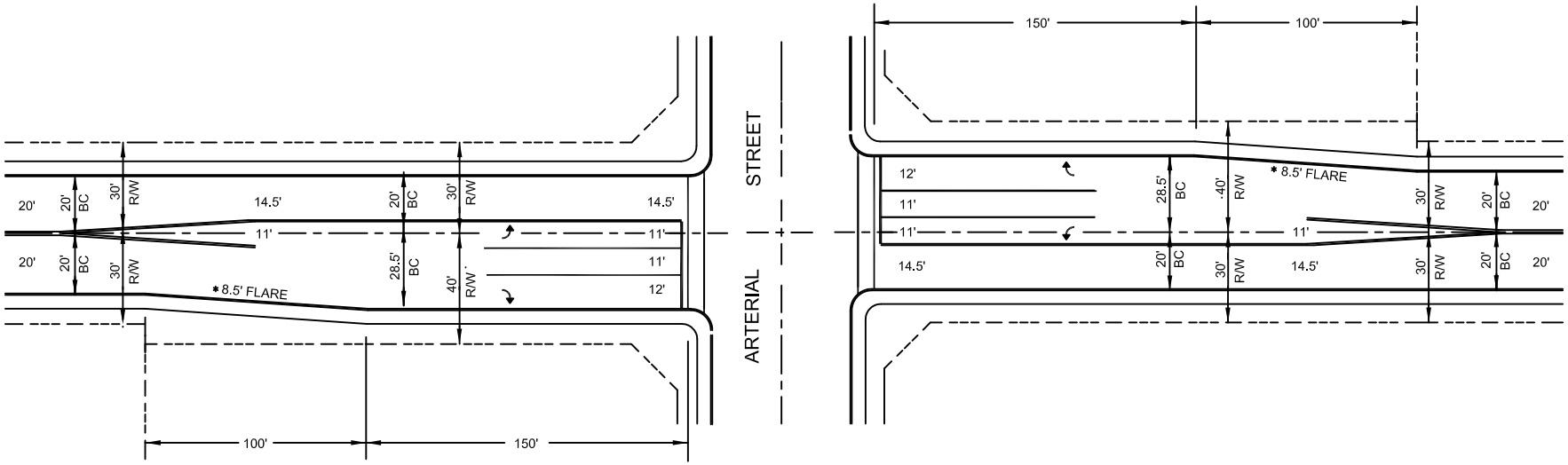
* NOTE: NO PAVEMENT FLARE OR ADDITIONAL RIGHT OF WAY NEEDED AT COLLECTOR INTERSECTIONS

① CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

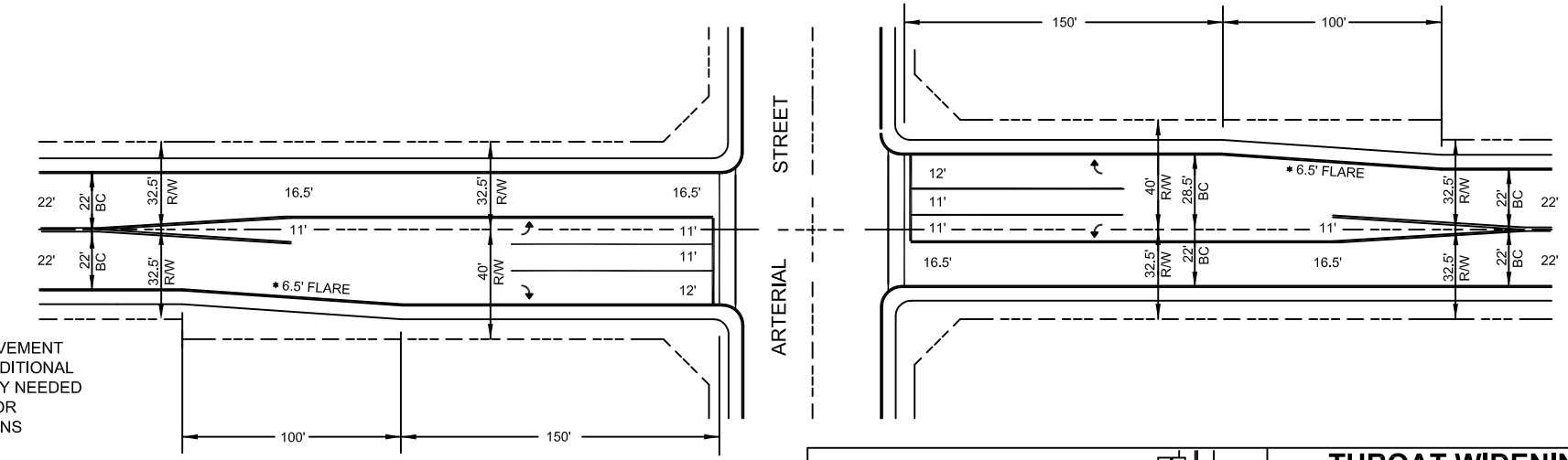
NOT TO SCALE

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**THROAT WIDENING FOR COLLECTION C-1 INTERSECTING ARTERIAL**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH, 2014	DETAIL NO. **G-324**

C–2 COLLECTOR INTERSECTING ARTERIAL



C–3 COLLECTOR INTERSECTING ARTERIAL



* NOTE: NO PAVEMENT FLARE OR ADDITIONAL RIGHT OF WAY NEEDED AT COLLECTOR INTERSECTIONS

① CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

NOT TO SCALE

CITY OF GLENDALE STANDARD DETAIL

GLENDALE

THROAT WIDENING FOR COLLECTOR C-2 AND C-3 INTERSECTING ARTERIAL

APPROVED BY: CITY ENGINEER David D. Beard, P.E.

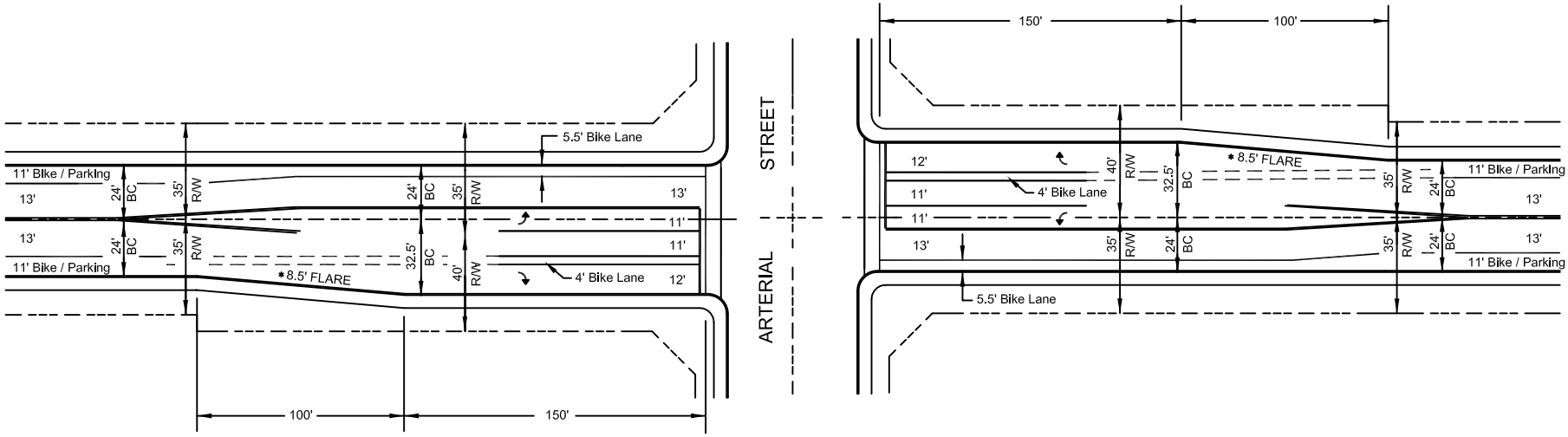
DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO. **G-325**

C–4 COLLECTOR INTERSECTING ARTERIAL

WITH OPTIONAL BIKE LANES

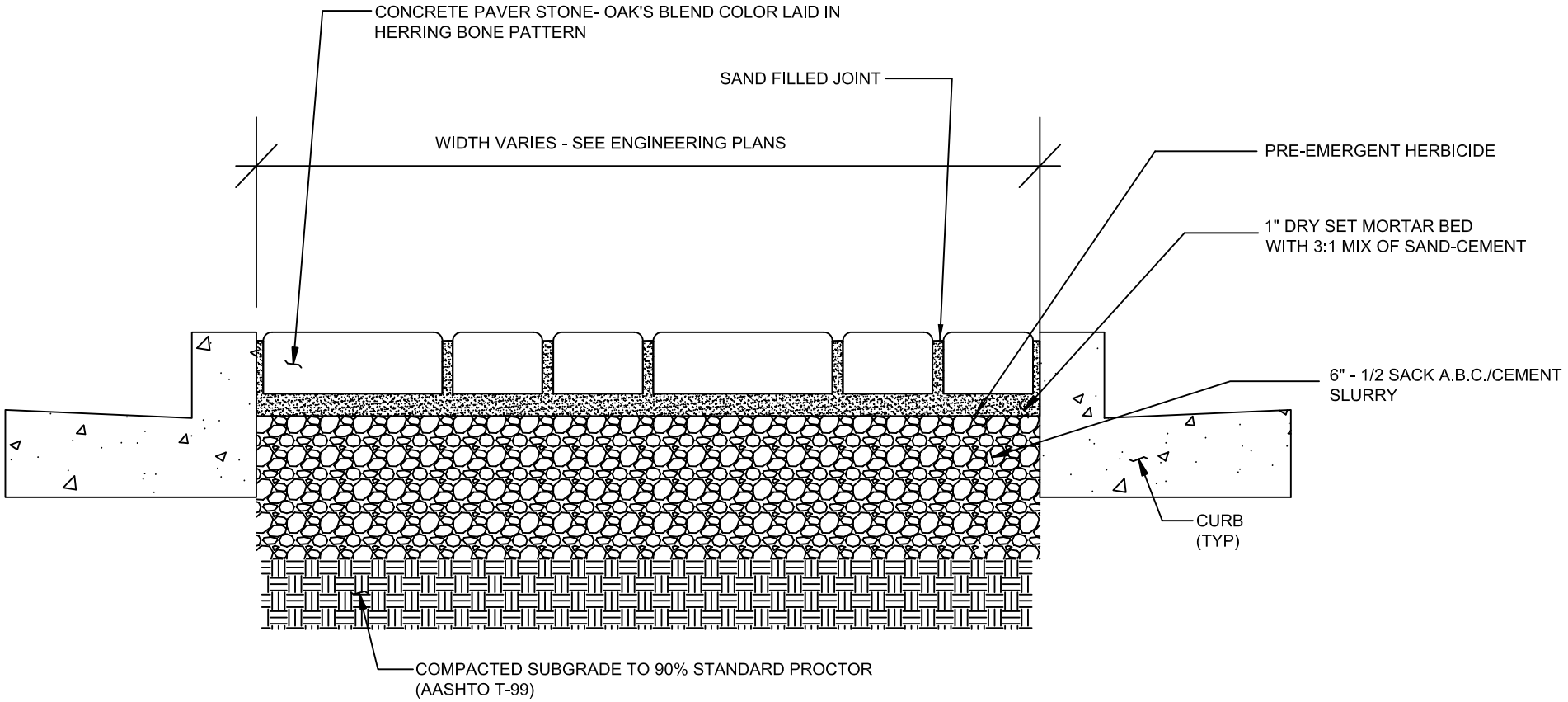


* NOTE: NO PAVEMENT FLARE OR ADDITIONAL RIGHT OF WAY NEEDED AT COLLECTOR INTERSECTIONS

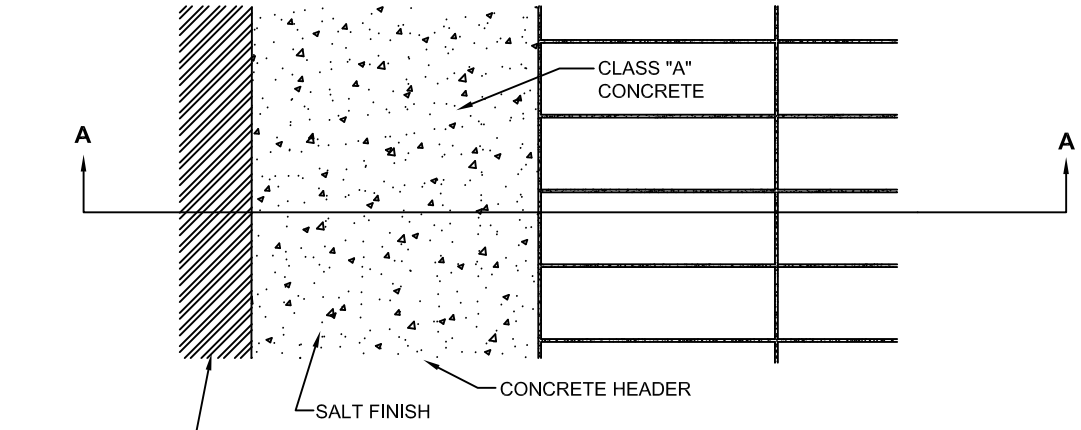
① CITY ENGINEER AND CITY TRANSPORTATION ENGINEER CAN CHANGE ROW AND LANE DIMENSIONS DUE TO EXISTING CONSTRAINTS. (IE: POWER POLES, WELL SITES, ETC.)

NOT TO SCALE

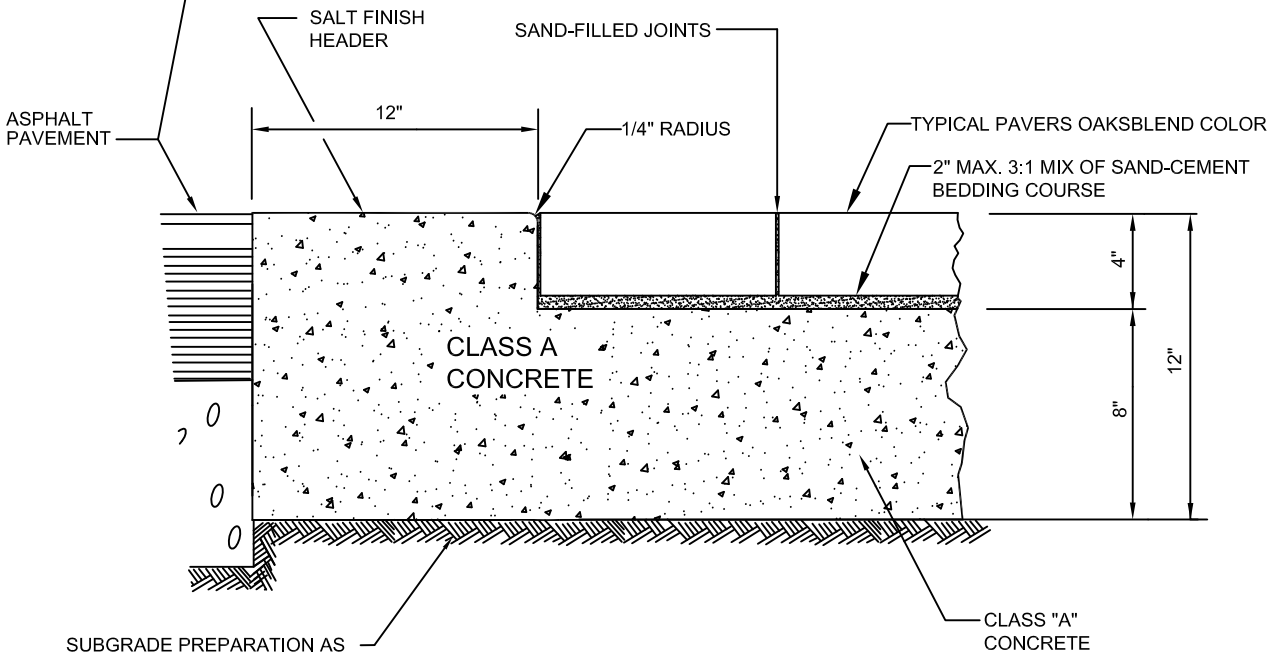
CITY OF GLENDALE STANDARD DETAIL GLENDALE		**THROAT WIDENING FOR COLLECTOR C-4 INTERSECTING ARTERIAL**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-326**



CITY OF GLENDALE STANDARD DETAIL		BRICK PAVERS FOR MEDIANS	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-328



PLAN VIEW

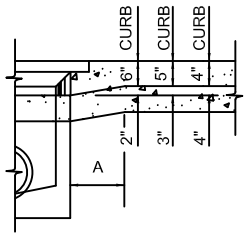


NOTES:

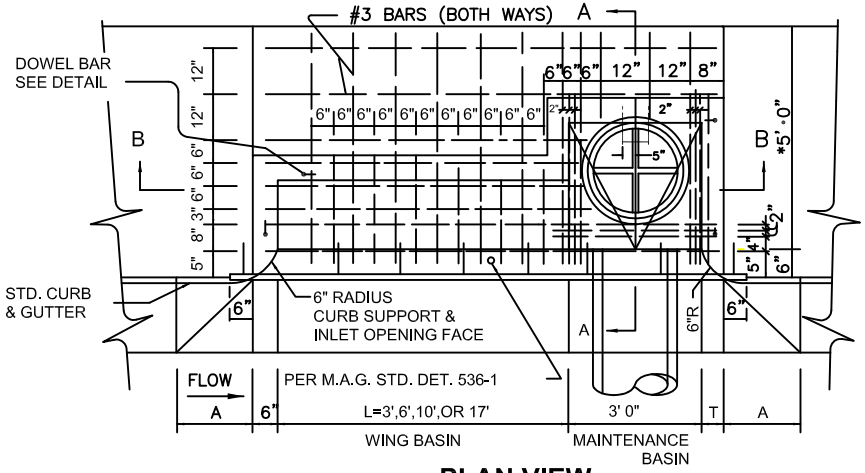
1. NO WATER VALVES SHALL BE PLACED IN THE BRICK PAVERS. KEEP VALVES 5 FT. MIN. FROM CONCRETE HEADER.

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	**BRICK PAVEMENT FOR STREETS AND CROSSWALKS**
APPROVED BY: CITY ENGINEER — David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-329**

GUTTER TRANSITION	
CURB HEIGHT	DIM 'A'
4"	3'-3"
5"	2'-6"
6"	1'-9"

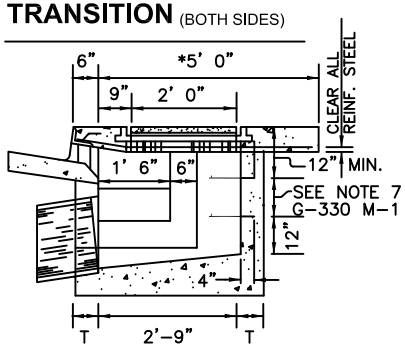


DEPRESSED GUTTER

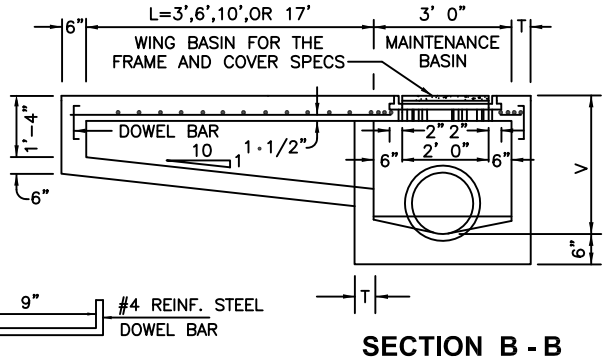


PLAN VIEW

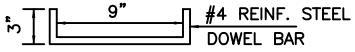
TRANSITION (BOTH SIDES)



SECTION A - A



SECTION B - B



DOWEL BAR DETAIL

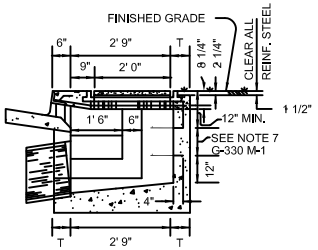
NOTES:

1. TYPES ARE DESIGNATED AS FOLLOWS: 'M'.. NO WING, 'M-1'.. ONE WING, 'M-2'.. TWO WINGS.
2. ALL CONCRETE SHALL BE CLASS 'A'.
3. ALL REINFORCING STEEL SHALL BE DEFORMED BARS AMD SHALL CONFORM TO A.S.T.M. SPECIFICATION 615.
4. CONNECTOR PIPES SHALL BE PLACED IN THE APPROPRIATE WALL OF THE MAINTENANCE BASIN.
5. FLOOR OF BASIN SHALL BE TROWELLED TO A HARD, SMOOTH SURFACE AND SHALL SLOPE FROM ALL DIRECTIONS TO OUTLET.
6. LOCATE WING BASIN ON UPSTREAM SIDE OF MAINTENANCE BASIN FOR TYPE M-1. WING BASINS FOR TYPE M-2 SHALL BE BOTH SIDES OF MAINTENANCE BASIN.
7. STEPS (M.A.G. DET. 428 POLYPROPYLENE)- V=3' (INCL.), PLACE ONE STEP 12" ABOVE THE FLOOR OF THE BASIN. V OVER 3' PLACE STEPS AT 12" INTERVALS FROM THE FLOOR OF THE BASIN WITH THE TOP STEP AT 12" (MIN.) BELOW THE TOP OF THE GRATE.
8. ACCESS FRAME AND COVER PER M.A.G. DET. 536-2

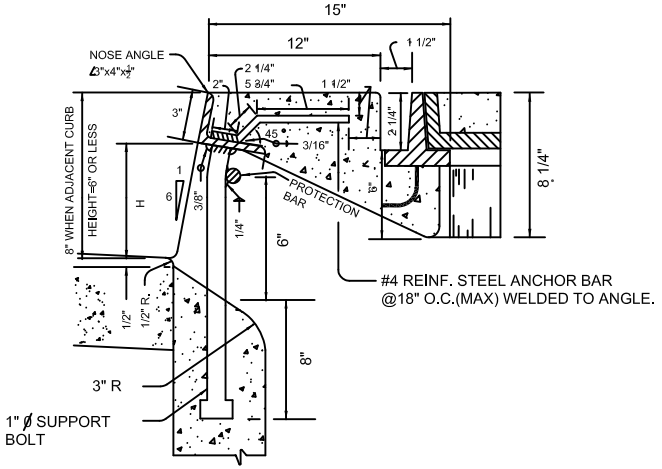
CATCH BASIN WALL THICKNESS
T = 6" IF V = 4' OR LESS T = 8" IF V = 4' TO 8' (IF V EXCEEDS 8', SPECIAL DESIGN IS REQUIRED.)
L = 0' UNLESS SPECIFIED ON THE PLANS V = 3'-6" MIN. WHEN L = 3' OR 6' V = 4'-0" MIN WHEN L = 10' OR 17'

*4'-0" IN LOCATIONS WHERE 4' SIDEWALK IS REQ'D.

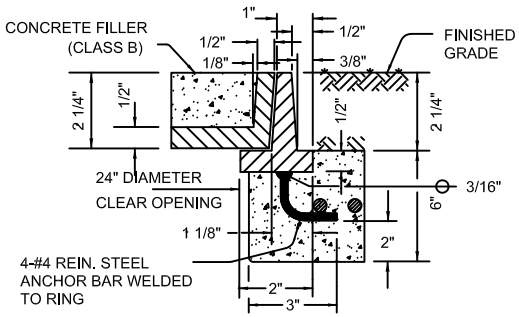
CITY OF GLENDALE STANDARD DETAIL	GLENDALE	CATCH BASIN TYPE M-1	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-330



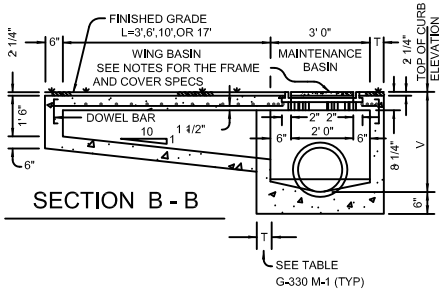
SECTION A - A



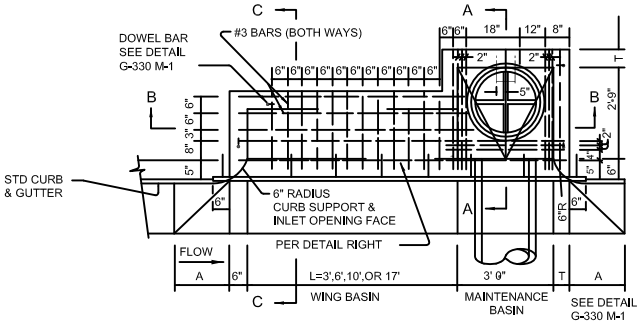
INLET CURB OPENING



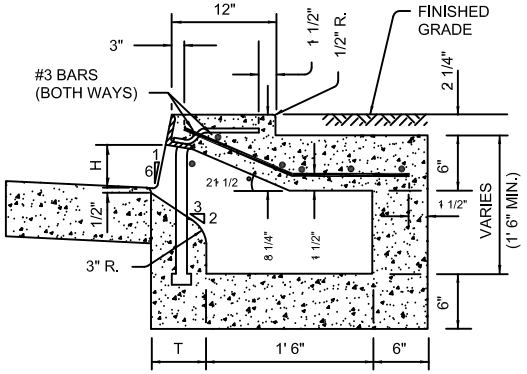
ACCESS FRAME & COVER



SECTION B - B



PLAN VIEW

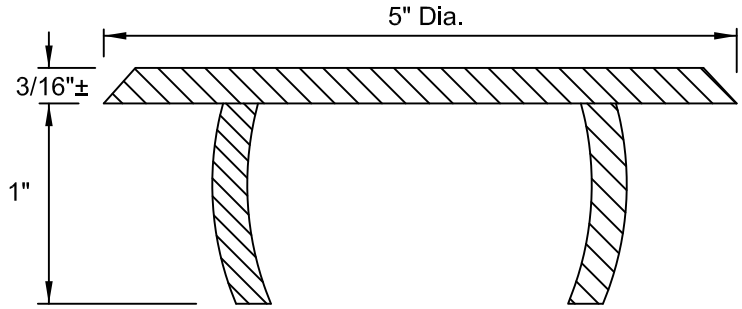


SECTION C - C

NOTES:

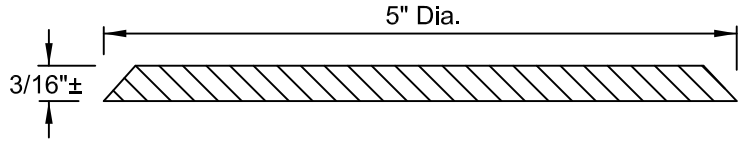
SEE STANDARD DETAILS G-330 M-1, M.A.G. 536-1, AND M.A.G. 536-2 FOR CONSTRUCTION NOTES AND ADDITIONAL DETAILS.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**CATCH BASIN TYPE M-2**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-331**



TYPE "A:

TO BE INSTALLED IN WET CONCRETE
DURING CONSTRUCTION



TYPE "B"

TO BE INSTALLED WITH ADHESIVE
ON EXISTING STRUCTURES

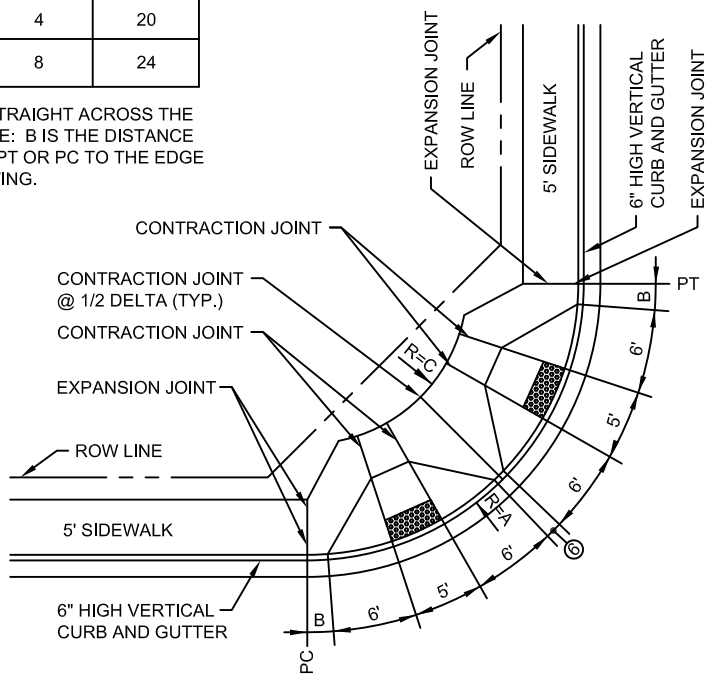
NOTES

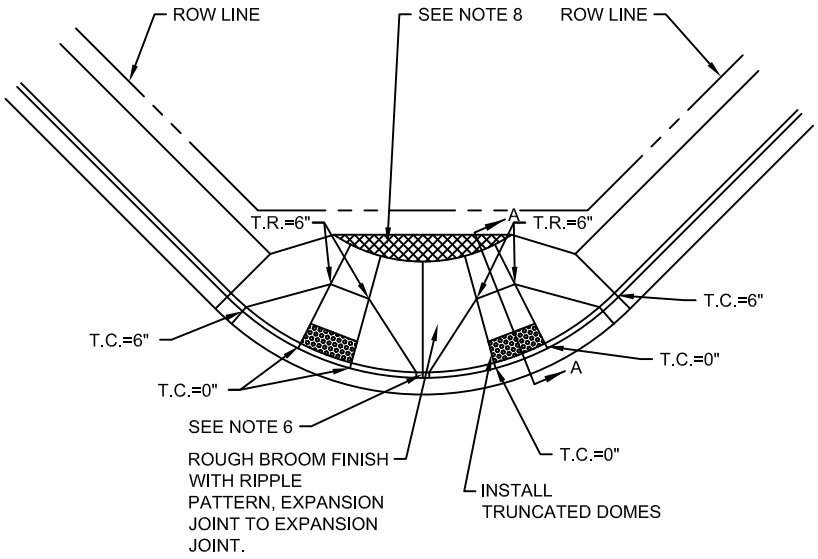
1. Material: Cast Aluminum
2. The Total Width Of Individual Letters To Be Such That Letters And Words Are Equally Spaced And Balanced.
3. Letters To Be 1/2" In Height.

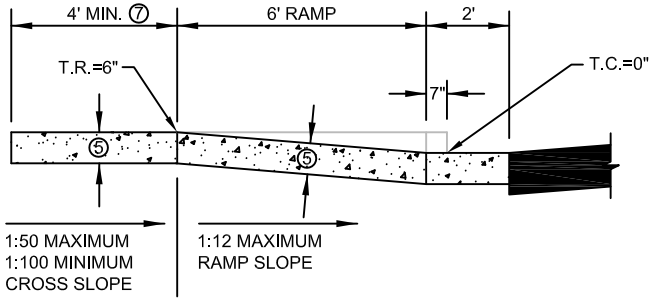
CITY OF GLENDALE STANDARD DETAIL		STORM DRAIN INLET MARKER	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-332

DIMENSION TABLE		
A(ft)	B(ft)	C(ft)
25	2	*
30	4	20
35	8	24

*RAMP IS STRAIGHT ACROSS THE BACK. NOTE: B IS THE DISTANCE FROM THE PT OR PC TO THE EDGE OF RAMP WING.







SECTION A - A (TYP.)

NOT TO SCALE

NOTES

① CONTROL ELEVATIONS ARE SHOWN IN RELATION TO THE GUTTER AND ARE LOCATED RADIALLY. GUTTER ELEVATION=0".

② CONCRETE CURB AND GUTTER AT CURB RETURNS WITH RAMPS SHALL BE M.A.G. CLASS A. CONCRETE SIDEWALKS AND RAMPS AT CURB RETURNS SHALL BE M.A.G. CLASS A.

③ RAMP CURBS MAY BE POURED MONOLITHIC WITH A CONTRACTION JOINT.

④ EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER A.S.T.M. D-1751

⑤ 9" THICK LANDING, RAMPS, AND CURBS FROM EXPANSION JOINT TO EXPANSION JOINT ON MAJOR OR COLLECTOR STREETS. 4" THICK LANDING AND RAMPS ON LOCAL STREETS.

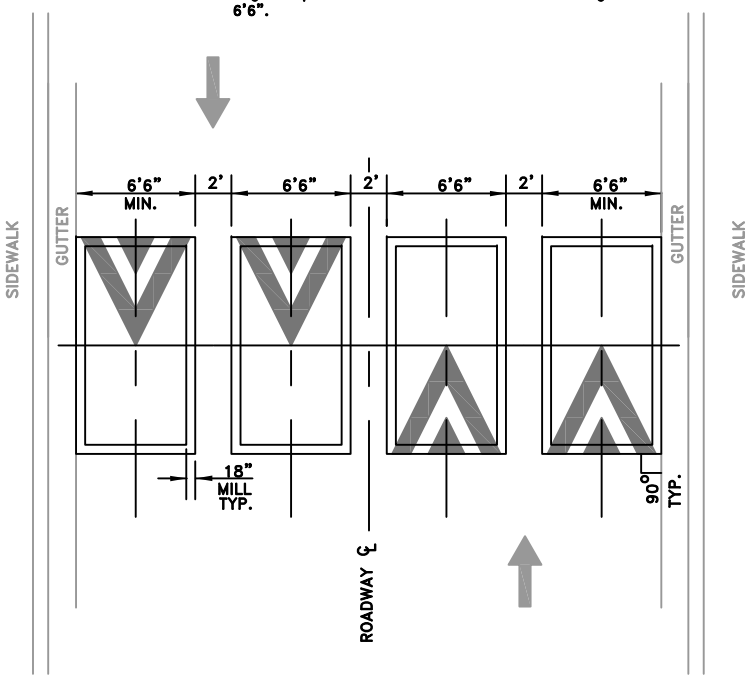
⑥ REDUCE CURB HEIGHT BY 1" MAXIMUM IN ORDER TO ACCOMMODATE A 12" SEPARATION BETWEEN RAMPS.

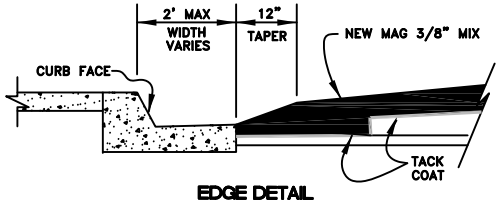
⑦ MAINTAIN THE PLANE OF THE LANDING ONE FOOT (1 FT.) BEYOND THE TOP OF LANDING.

⑧ ADDITIONAL SIDEWALK PER NOTE 2 & 5 WHEN SIGNAL POLES ARE LOCATED IN THESE AREAS.

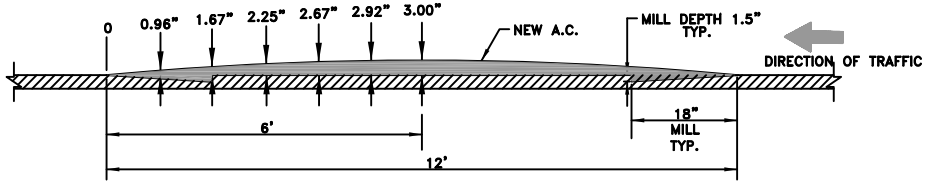
CITY OF GLENDALE STANDARD DETAIL	GLENDALE	DUAL ADA ACCESSIBLE RAMPS AT ARTERIAL INTERSECTIONS	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-345

IMPORTANT: To gain maximum effect, Cushions must be constructed as per the shown detail, with an allowable tolerance of ± 0.25". Contractors must comply based on consideration for emergency and fire department vehicles. Because of this concern, any deviation from the shown dimensions must be corrected at the contractor's expense. The outer cushions must be extended to the edge of pavement with a minimum width being 6'6".





EDGE DETAIL



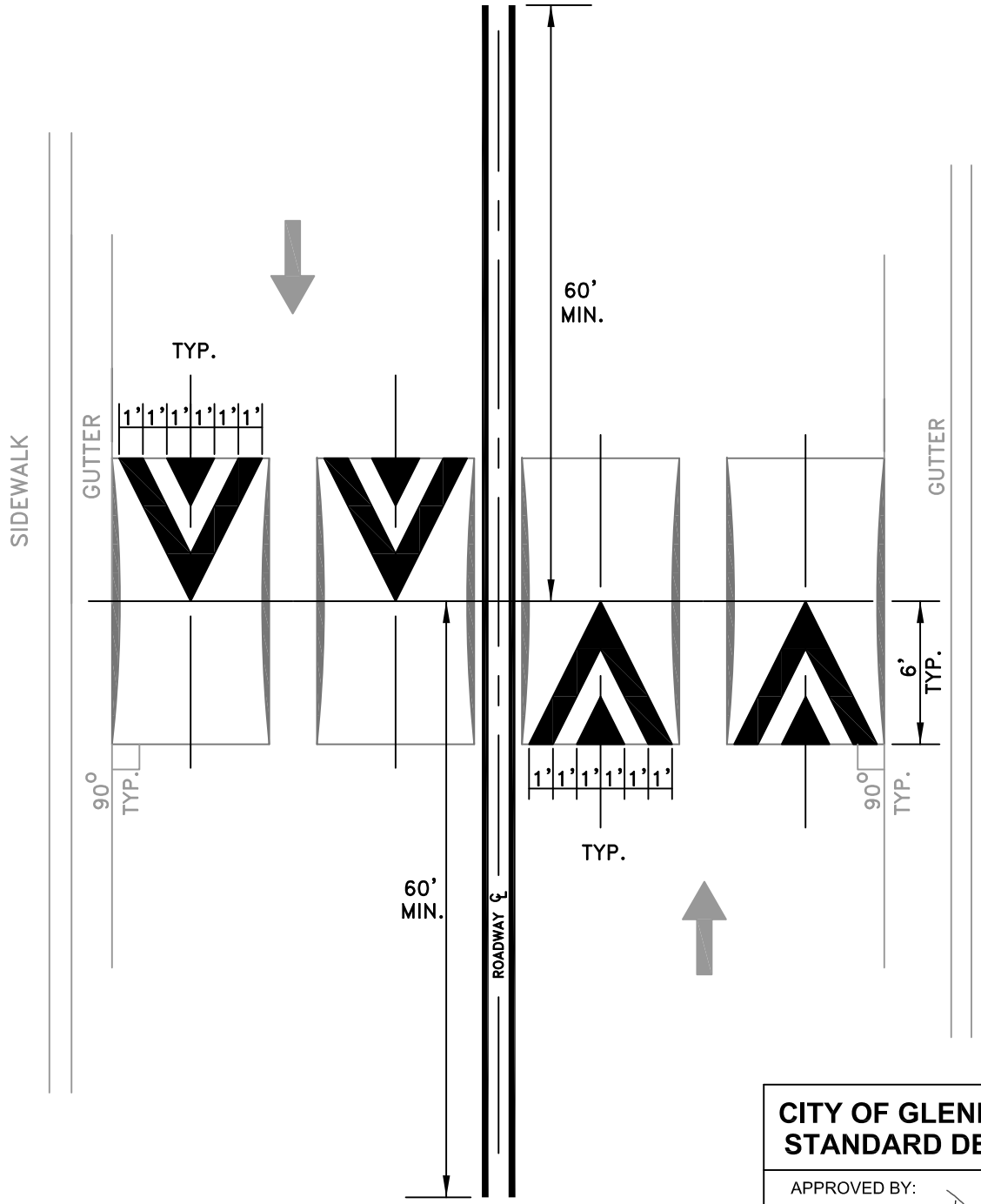
PROFILE

NOTES:

1. DETAILS SHOW APPROXIMATE ELEVATIONS FOR SPEED CUSHION.
2. SPEED CUSHIONS MUST BE PLACED AT LOCATIONS APPROVED AND SPECIFIED BY THE CITY OF GLENDALE TRANSPORTATION DEPARTMENT.
3. CENTERLINE STRIPE MAY NOT BE IN THE CENTER OF THE ROADWAY, BUT IF NOT STRIPED, POSITION CUSHIONS SYMMETRICAL TO CENTER OF ROADWAY.
4. POSITION SPEED CUSHIONS ON STRAIGHT SECTIONS OF ROADWAY.
5. SPEED CUSHIONS SHALL NOT BE PLACED OVER MANHOLES, WATER VALVES, JUNCTION CHAMBERS, SURVEY MONUMENTS, ADJACENT TO FIRE HYDRANTS OR IN CONFLICT WITH DRIVEWAYS.
6. THIS DETAIL IS NOT APPROPRIATE FOR STREETS LESS THAN 36' WIDE. ON STREETS LESS THAN 36' WIDE, ONLY TWO RUTS SHALL BE SPACED AT 6'6". THE RUTS SHALL BE CONSTRUCTED 3'3" FROM CENTER OF THE ROADWAY.
7. CUSHIONS TO BE CONSTRUCTED WITH APPROVED MAG 3/8" MIX.
8. EXISTING ROADWAY SHALL BE MILLED TO A WIDTH OF 18" AND MINIMUM DEPTH OF 1.5" AROUND THE PERIMETER OF EACH TAPER FROM 0" AT THE CURB TO 1.5".
9. A TACK COAT SHALL BE APPLIED PRIOR TO APPLICATION OF ASPHALT.
10. CONTRACTOR SHALL STAY WITH THE TACK COAT UNTIL IT DRIES TO WARN MOTORISTS. IT IS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ONE TRAVEL LANE CLEAR OF DEBRIS, INCLUDING THE TACK COAT THAT HAS NOT DRIED.
11. CONTRACTOR SHALL PROVIDE VERIFICATION OF DIMENSIONS.
12. CONTRACTOR SHALL STRIPE THE CUSHIONS AS PER CITY OF GLENDALE DETAIL G-351 AND PER THE CITY'S STRIPING SPECIFICATION.
13. CONTACT THE CITY OF GLENDALE SIGN SHOP (623.930.2763) ONE WEEK PRIOR TO INSTALLATION TO COORDINATE SIGNAGE.

NOT TO SCALE

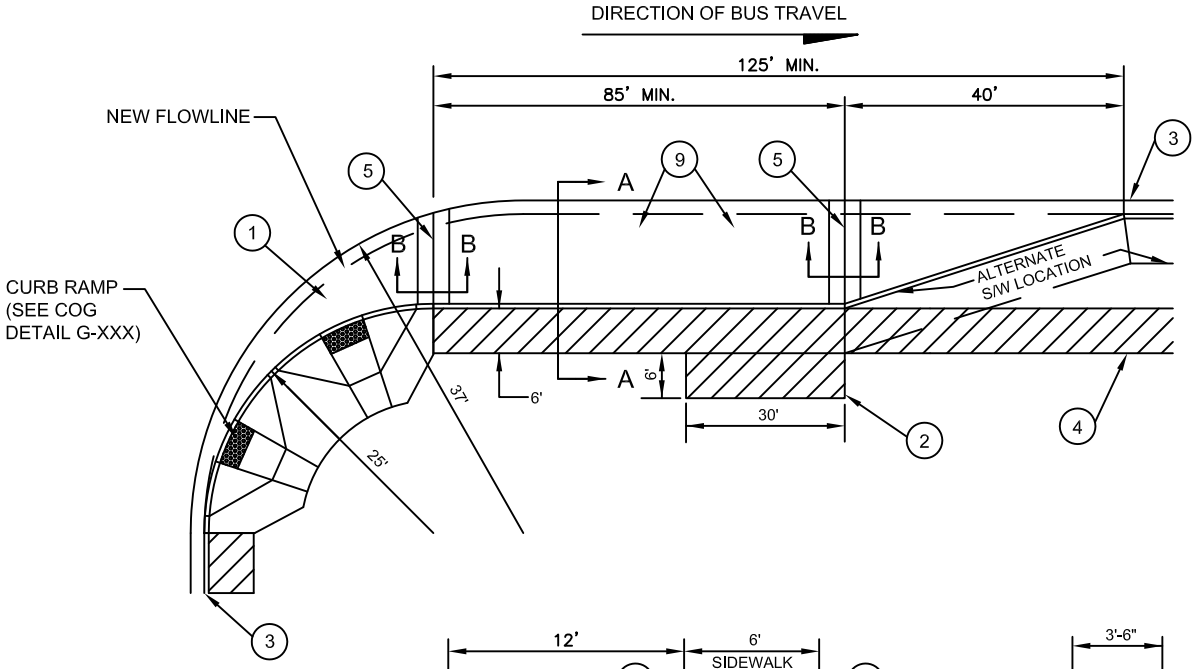
CITY OF GLENDALE STANDARD DETAIL		SPEED CUSHION	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-350



NOTES:

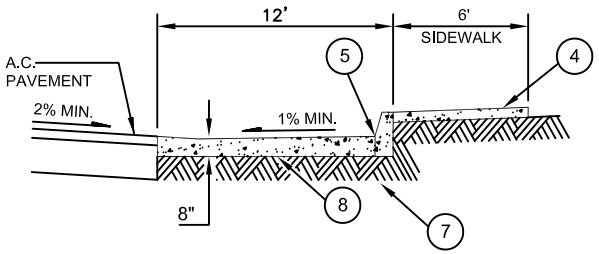
1. ON THE SAME DAY OF INSTALLATION, CONTRACTOR SHALL STRIPE THE CUSHIONS WITH WATER BASED PAINT PER CITY OF GLENDALE SUPPLEMENTAL SPECIFICATIONS FOR PAVEMENT MARKINGS.
2. CONTRACTOR SHALL PERMANENTLY STRIPE THE SPEED CUSHIONS WITH 12" WHITE MARKINGS 30 DAYS AFTER INSTALLATION.
3. PERMANENT STRIPING SHALL BE 3M STA-MARK SERIES SMS-5730 OR APPROVED EQUIVALENT.
4. APPLY 3M CONTACT CEMENT, E-44 OR APPROVED EQUIVALENT TO THE ROADWAY FOR STRIPING INSTALLATION.
5. CENTERLINE STRIPING, IF ANY, SHALL BE DOUBLE YELLOW AND BE A MINIMUM OF 60' FROM CENTER OF SPEED CUSHION. LENGTH OF STRIPING TO BE DETERMINED BY THE CITY ENGINEER.

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	SPEED CUSHION STRIPING	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-351

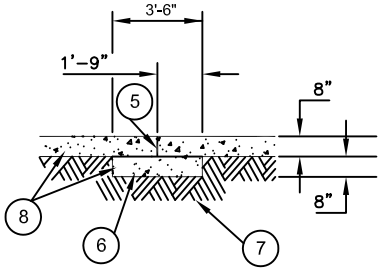


NOTES:

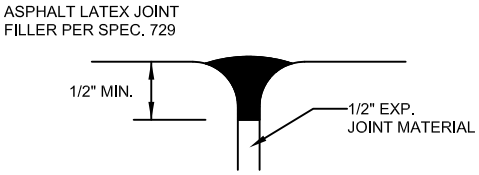
1. CONCRETE BUS PAD
2. BUS SHELTER PAD
3. CURB & GUTTER M.A.G. STD. DET. 220, TYPE "A"
4. SIDEWALK M.A.G. STD. DET. 230
5. 1/2" BITUMINOUS PREFORMED EXPANSION JOINT FILLER PER M.A.G. SPEC. 729 SEE DETAIL "A" (MATCH CURB JOINTS)
6. CONCRETE PAD TO BE POURED SEPARATELY FROM CONCRETE BUS BAY PAVEMENT
7. SUB-GRADE PREPARATION PER M.A.G. SECT. 301 COMPACT TO 95% STANDARD PROCTOR, PER SECT 3.60 AND 3.61
8. CONCRETE SHALL BE CLASS "A" PER M.A.G. SPECIFICATIONS.
9. CONTRACTION JOINTS TO MATCH CURB JOINTS.
10. DRIVEWAY CURB CUTS SHALL NOT BE LOCATED WITHIN A BUS BAY.



SEC. A-A

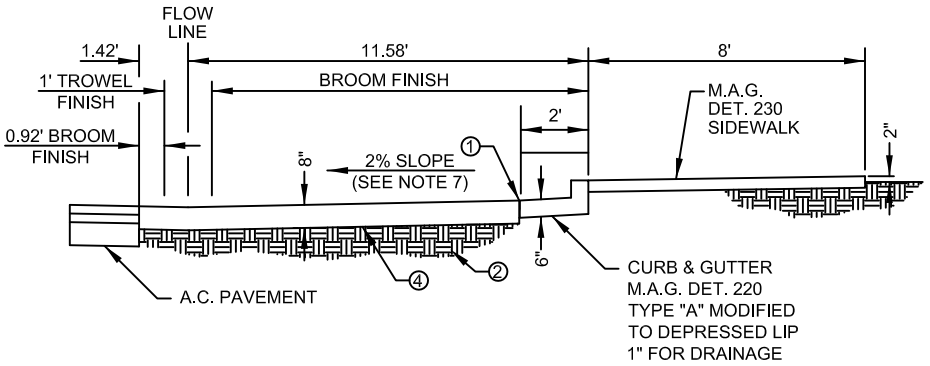


SEC. B-B

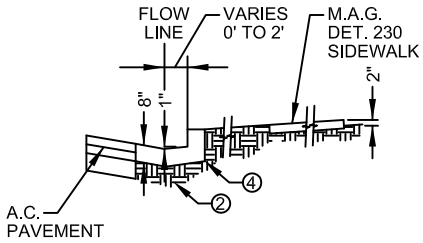


DETAIL "A"

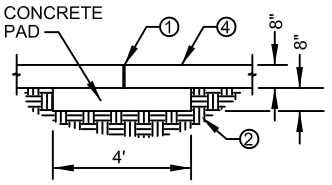
CITY OF GLENDALE STANDARD DETAIL		BUS BAY DETAIL	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-406



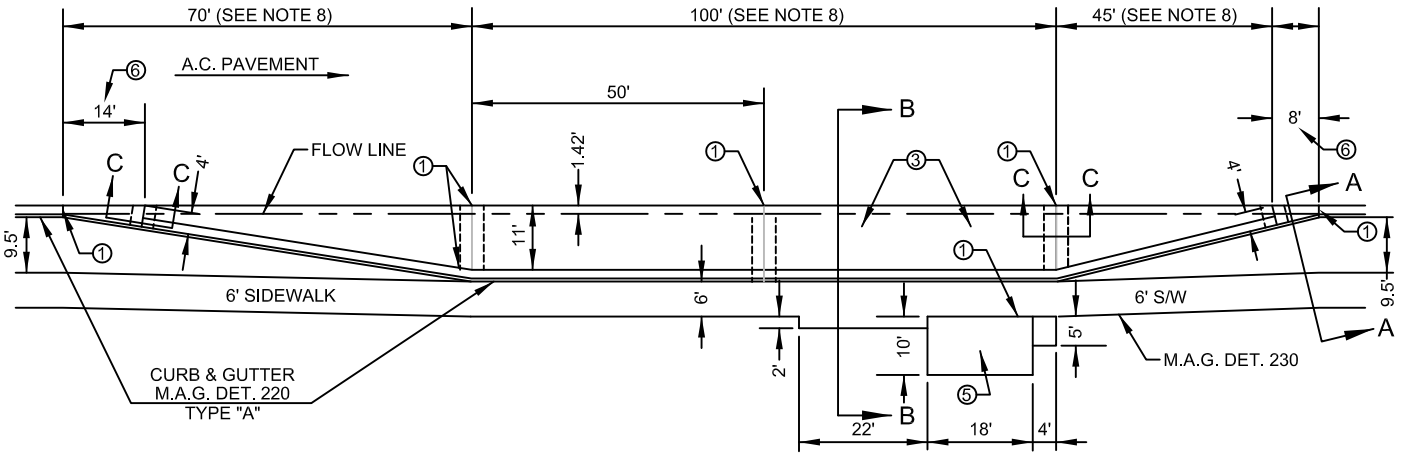
SECTION B - B
NOT TO SCALE



SECTION A - A
NOT TO SCALE



SECTION C - C
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

NOTES

1. 1/2" BITUMINOUS PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751 PER M.A.G. SECTION 729. (MATCH CURB JOINTS).
2. SUBGRADE PREPARATION PER M.A.G. SECTION 301.
3. CONTRACTION JOINTS IN THE BUS PULLOUT PAVEMENT SHALL MATCH THOSE IN THE CURB.
4. CONCRETE SHALL BE CLASS "A" PER M.A.G. SECTION 725.
5. BUS SHELTER PAD AND SHELTER PER CITY OF GLENDALE DETAIL G-406.
6. PAVEMENT TRANSITION (SEE SECTION A-A).
7. CROSS SLOPE SHALL BE 2% UNLESS OTHERWISE NOTED ON PLANS.
8. BUS PULLOUT DIMENSIONS MAY BE REVISED UPON WRITTEN APPROVAL OF THE CITY TRANSPORTATION ENGINEER.

CITY OF GLENDALE STANDARD DETAIL

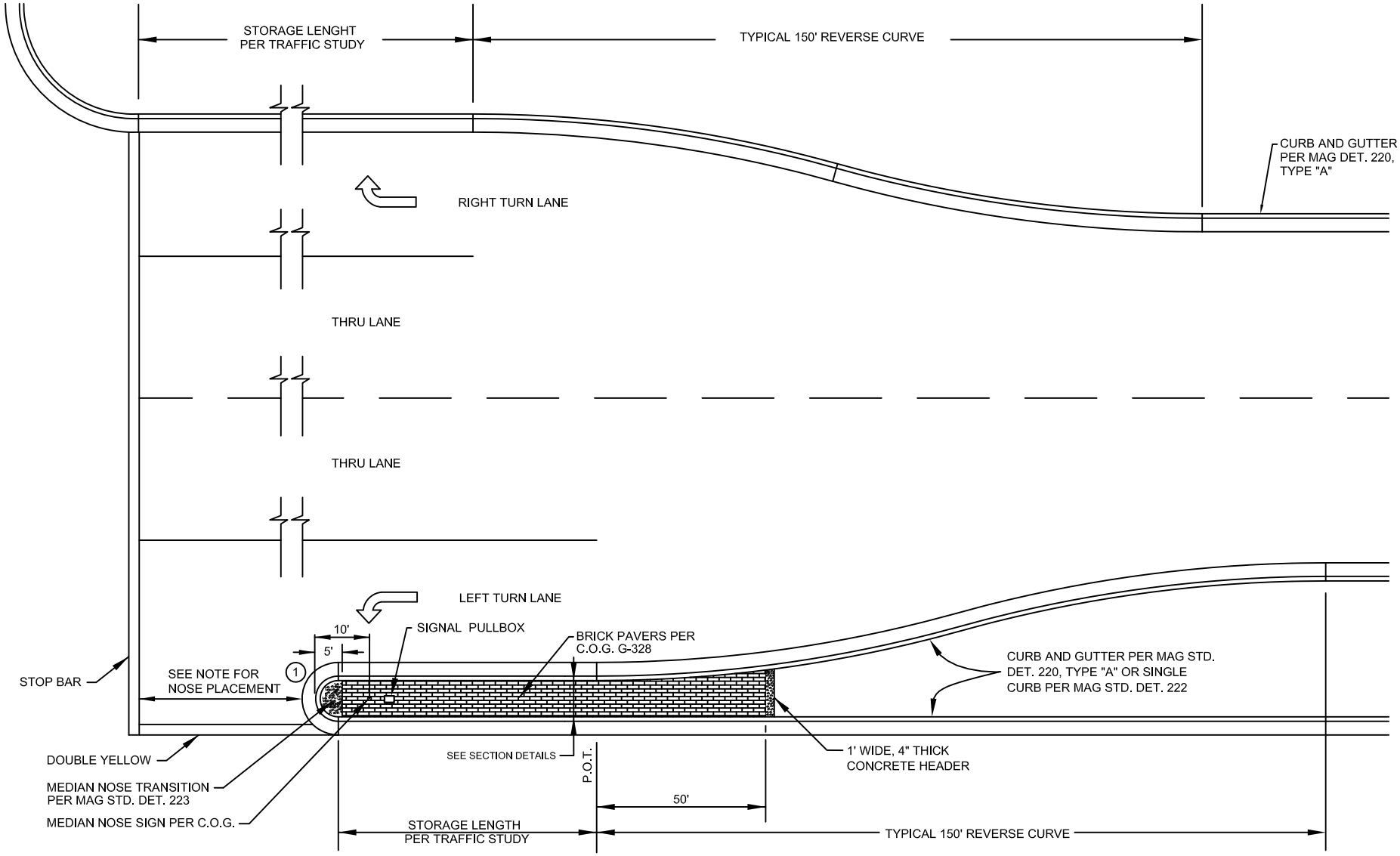
MID-BLOCK BUS PULLOUT

APPROVED BY: CITY ENGINEER — David D. Beard, P.E.

DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO. **G-407**



(1) MEDIAN NOSE PLACEMENT SHALL BE PLACED A MINIMUM OF 10' AND MAXIMUM OF 20' FROM STOP BAR. A DOUBLE YELLOW STRIPE MUST EXTEND FROM THE MEDIAN NOSE TO THE STOP BAR.

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	**MEDIAN NOSE AND REVERSE CURVE DETAILS FOR TURN LANES**
APPROVED BY: CITY ENGINEER — David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-410**

1. FIRE LANE SIGNS SHALL BE INSTALLED AS REQUIRED BY FIRE PREVENTION.

   A. SIGNS SHALL BE 12" WIDE AND 18" LONG BY .063" THICK. THEY SHALL HAVE A REFLECTORIZED SURFACE USING SCOTCHLITE MATERIAL OR EQUAL.

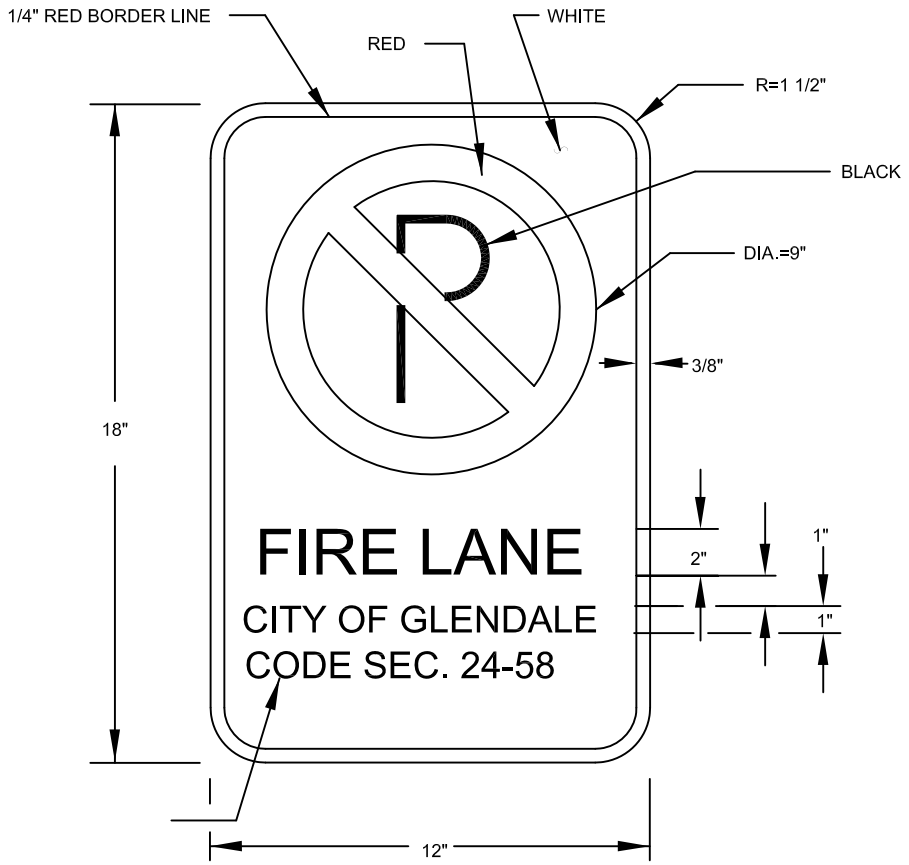
   B. THEY SHALL BE MOUNTED ON STURDY METAL POSTS WITH THE BOTTOM OF THE SIGN NO LESS THAN 7'-0" ABOVE GRADE.

   C. SIGNS SHALL BE MOUNTED SO THEY ARE VISIBLE IN THE DIRECTION OF TRAVEL.

   D. THE SIGN SHALL READ AS FOLLOWS:

2. SIGNS SHALL BE PROVIDED BY AND MAINTAINED BY THE PROPERTY OWNER/OCCUPANT.

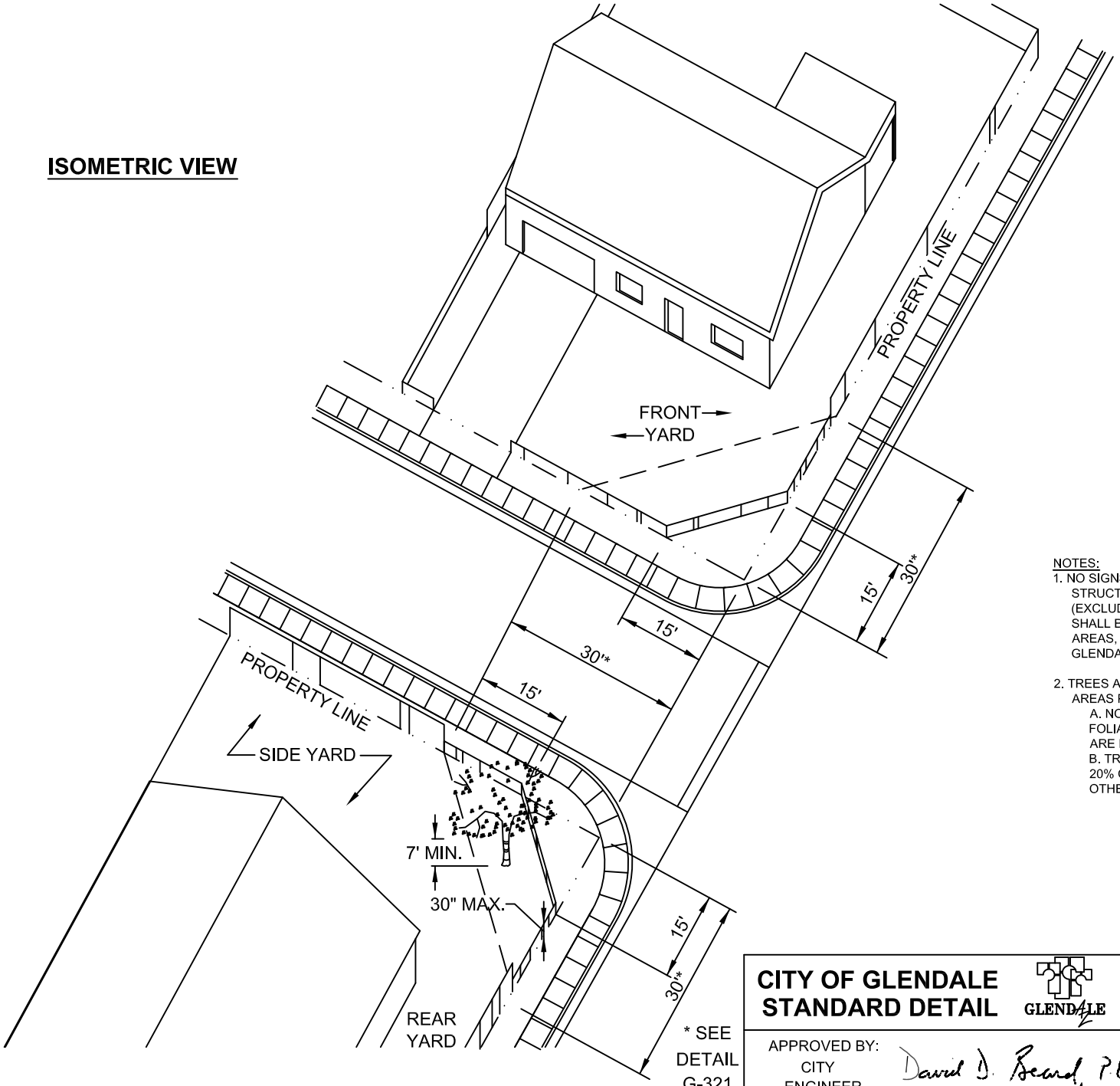
3. AFTER REQUIRED SIGNS ARE INSTALLED, FIRE PREVENTION WILL INSPECT AND AFFIX A STAMP OF APPROVAL TO ALL APPROVED SIGNS.



RED LETTERS TYP. FOR 1" & 2" LETTERS

CITY OF GLENDALE STANDARD DETAIL		INSTALLATION OF FIRE LANE SIGNS	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-434

ISOMETRIC VIEW



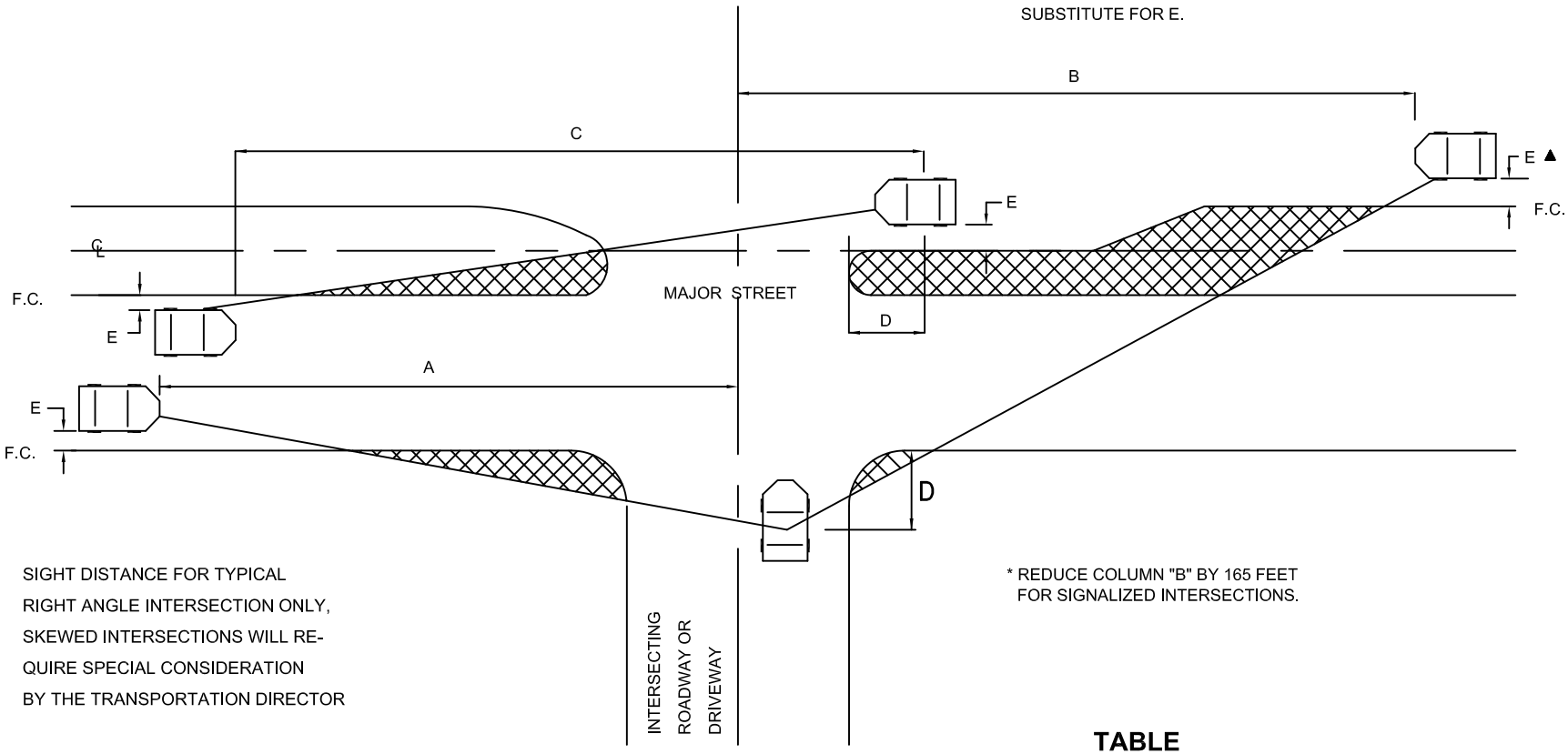
NOTES:

1. NO SIGNS, FENCES, WALLS, UTILITY BOXES, STRUCTURES, SHRUBS, HEDGES OR OTHER PLANTS, (EXCLUDING TREES OVER 30 INCHES IN HEIGHT) SHALL BE PERMITTED WITHIN THE RESTRICTED AREAS, EXCEPT AS APPROVED BY THE CITY OF GLENDALE TRANSPORTATION ENGINEER.

2. TREES ARE PERMITTED WITHIN THE RESTRICTED AREAS PROVIDED:
   A. NO LIMBS, LEAVES, NEEDLES OR OTHER FOLIAGE ABOVE 30 INCHES OR BELOW 84 INCHES ARE PERMITTED.
   B. TREES ARE PLANTED SO AS NOT TO OBSTRUCT 20% OF THE VISIBILITY WHEN COMBINED WITH OTHER OBSTRUCTIONS PRESENT.

CITY OF GLENDALE STANDARD DETAIL GLENDALE	**UNOBSTRUCTED VIEW EASEMENT FOR LOCAL STREETS**	
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-447**

▲ WHERE NO MEDIAN IS PRESENT
USE CENTER OF ROADWAY AS
SUBSTITUTE FOR E.



SIGHT DISTANCE FOR TYPICAL
RIGHT ANGLE INTERSECTION ONLY,
SKEWED INTERSECTIONS WILL RE-
QUIRE SPECIAL CONSIDERATION
BY THE TRANSPORTATION DIRECTOR

* REDUCE COLUMN "B" BY 165 FEET
FOR SIGNALIZED INTERSECTIONS.

TABLE

STREET	A	*B	C	D	E
COLLECTOR	455'	455'	490'	16'	3'
ARTERIAL	585'	585'	630'	16'	3'

NOTES:

1. NO SIGNS, FENCES, WALLS, UTILITY BOXES, STRUCTURES, SHRUBS, HEDGES, OR OTHER PLANTS, (EXCLUDING TREES), OVER 30 INCHES IN HEIGHT SHALL BE PERMITTED WITHIN THE RESTRICTED AREAS, EXCEPT AS APPROVED BY THE TRANSPORTATION DIRECTOR.

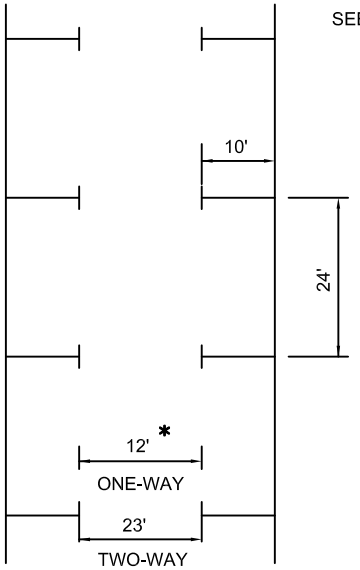
2. TREES ARE PERMITTED WITHIN THE RESTRICTED AREAS PROVIDED:

   A. NO LIMBS, LEAVES, LEAVES, NEEDLES OR OTHER FOLIAGE ABOVE 30 INCHES OR BELOW 84 INCHES ARE PERMITTED.

   B. TREES ARE PLANTED SO AS NOT TO OBSTRUCT 20% OF THE VISIBILITY WHEN COMBINED WITH OTHER OBSTRUCTIONS PRESENT.

CITY OF GLENDALE STANDARD DETAIL GLENDALE	**SIGHT DISTANCE REQUIREMENTS FOR ARTERIAL AND COLLECTOR STREETS**	
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-448**

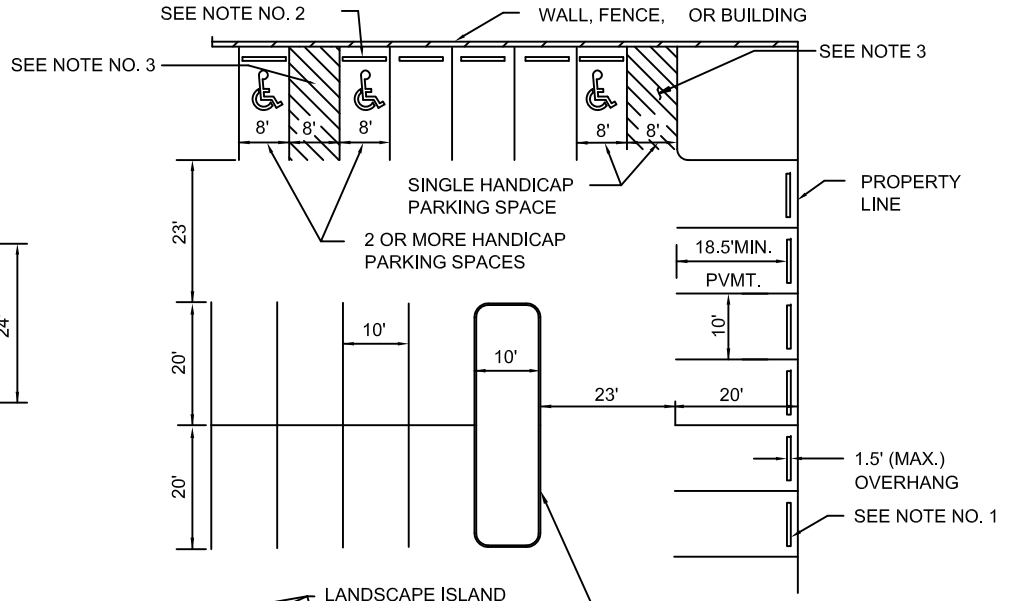
PARALLEL PARKING

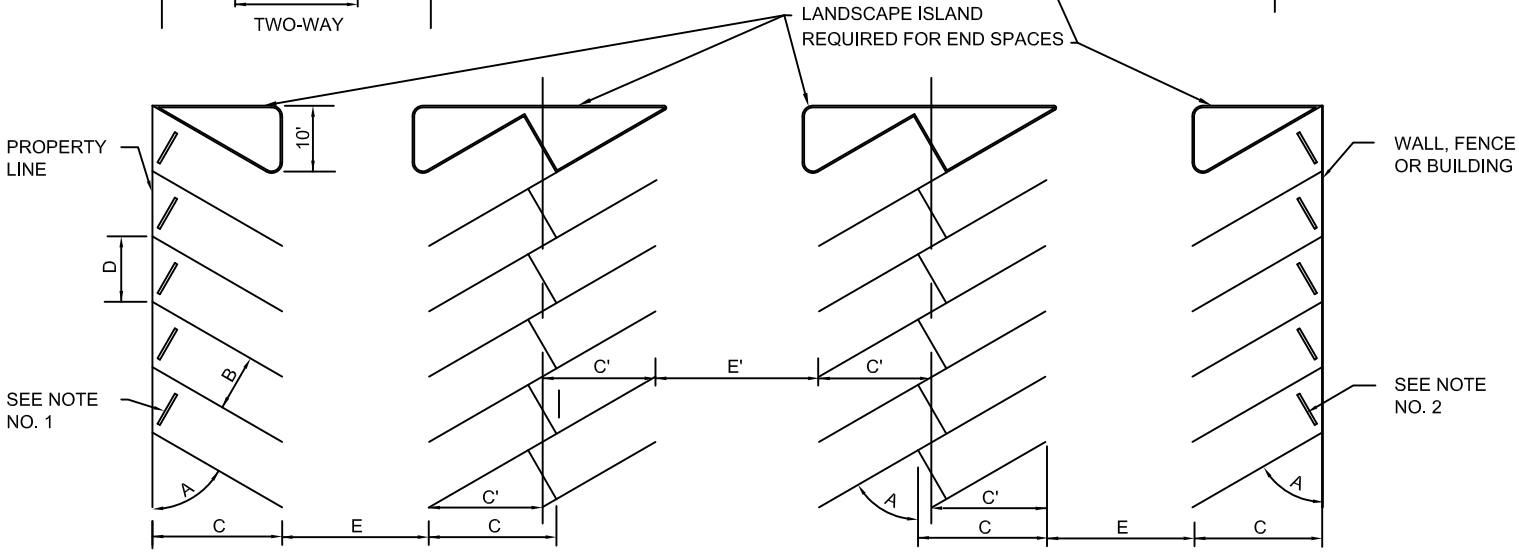


A	B	C	C'	D	E*	E'
PARKING ANGLE	STALL WIDTH	STALL DEPTH		CURB LENGTH	DRIVEWAY WIDTH	
					ONE-WAY	TWO-WAY
30°	10'	19.25'	15'	20'	11'	23'
45°	10'	21.5'	18'	14.2'	13'	23'
60°	10'	22.5'	20'	11.5'	18'	23'

* 20' (MIN.) WIDTH WHERE FIRE DEPT. ACCESS IS REQUIRED.

90° PARKING





ANGLE PARKING

NOTES

1. WHERE NO WALL OR BUILDING EXISTS, A 6" HIGH CURB OR BUMPER GUARD IS REQUIRED SO THAT NO PART OF THE VEHICLE EXTENDS OVER OR BEYOND THE PROPERTY LINE. A 6"X 18" CONCRETE CURB IS REQUIRED BETWEEN AREAS OF VEHICULAR ACTIVITY AND PUBLIC RIGHT-OF-WAY, I.E., STREETS AND ALLEYS.
2. WHERE PARKING ABUTS A PERIMETER WALL\FENCE OR BUILDING, A 6" BUMPER GUARD IS RECOMMENDED TO PREVENT VEHICLE OR STRUCTURE DAMAGE.
3. SPACE TO BE 8' FOR VAN ACCESS, OTHERWISE 5',
   VAN ACCESS CAN ALSO BE 11' WIDTH WITH 5' AISLE, SEE PARA. 9.34.B
4. ALL HANDICAPPED PARKING FACILITIES SHALL COMPLY WITH A.D.A.A.G. AND I.B.C. REQUIREMENTS.

CITY OF GLENDALE STANDARD DETAIL

GLENDALE

PARKING LOT DIMENSIONS

APPROVED BY: CITY ENGINEER — David D. Beard, P.E.

DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO. **G-450**

	RESIDENTIAL		COMMERCIAL INDUSTRIAL	
	SINGLE FAMILY	MULTI-FAMILY	SINGLE BUSINESS	MULTI-BUSINESS
STANDARD DETAIL	MAG 250 (1)	G-456 OR G-458	G-456 OR G-458	G-456 OR G-458
STANDARD WIDTH (TWO WAY)	16'	30'	30'	30'
MIN. WIDTH (TWO WAY)	16'	30'	30'	30'
MAX. WIDTH (TWO WAY)	24'	40' (2)	40' (2)	40' (2)
MIN. DISTANCE BETWEEN ADJACENT DRIVEWAYS (EDGE TO EDGE)	20'	150'	150'	150'
MIN. DISTANCE FROM INTERSECTION (NEAREST P.C. TO EDGE OF DRIVEWAY)	5'	150' (3)	150' (3)	150' (3)
MAXIMUM NUMBER OF DRIVEWAYS (5)	2	1 PER 225' FRONTAGE 2 PER 600' FRONTAGE 3 PER 1200' FRONTAGE 4 PER 2600' FRONTAGE	2 PER STREET	1 PER 225' FRONTAGE 2 PER 600' FRONTAGE 3 PER 1200' FRONTAGE 4 PER 2600' FRONTAGE

NOTES:

1. MAY BE G-456 OR G-458 ON ARTERIAL STREETS.
2. (a) HIGH VOLUME DRIVEWAY WITH TWO OUTBOUND APPROACH LANES.
   (b) REQUIRES DECELERATION LANE UNLESS OTHERWISE APPROVED BY CITY TRANSPORTATION ENGINEER.
   (c) CAN BE INCREASED WITH ADDITION OF RAISED MEDIAN AND WITH APPROVAL OF THE CITY TRANSPORTATION ENGINEER.
3. MAY BE REDUCED ON COLLECTOR AND RESIDENTIAL STREETS UPON THE APPROVAL OF THE CITY TRANSPORTATION ENGINEER.
4. ALL DRIVEWAY WINGS OR P.C.'S WILL BEGIN NO CLOSER THAN 5' FROM PROPERTY LINE.
5. DRIVEWAY LOCATIONS AND NUMBER OF DRIVEWAYS SUBJECT TO APPROVAL OF THE CITY TRANSPORTATION ENGINEER.

CITY OF GLENDALE STANDARD DETAIL GLENDALE

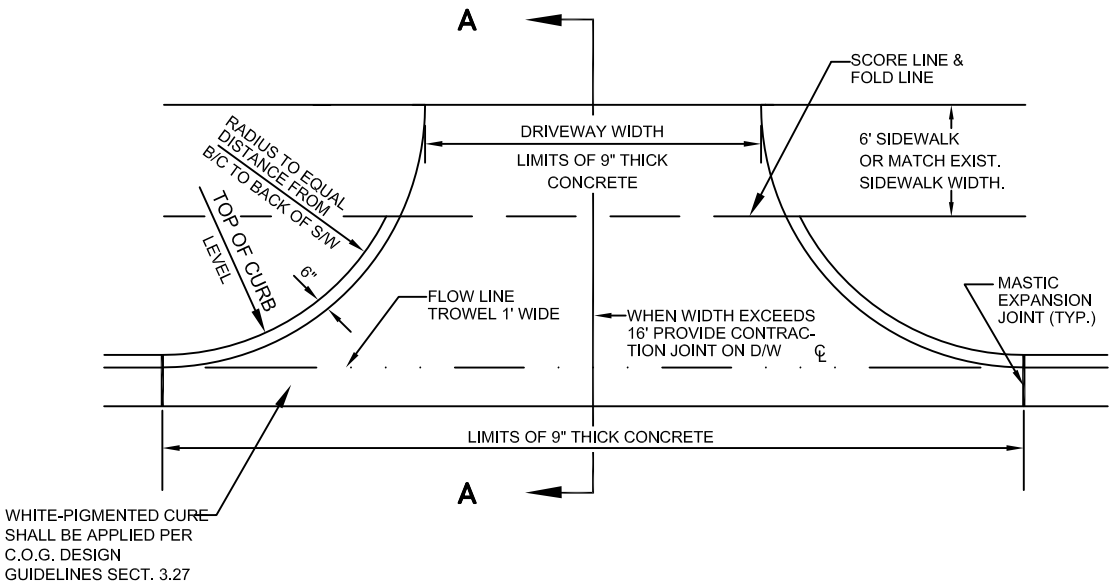
DRIVEWAY DESIGN CRITERIA

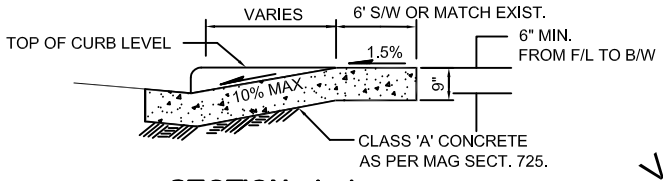
APPROVED BY: CITY ENGINEER David D. Beard, P.E.

DATE : 9/15/2014

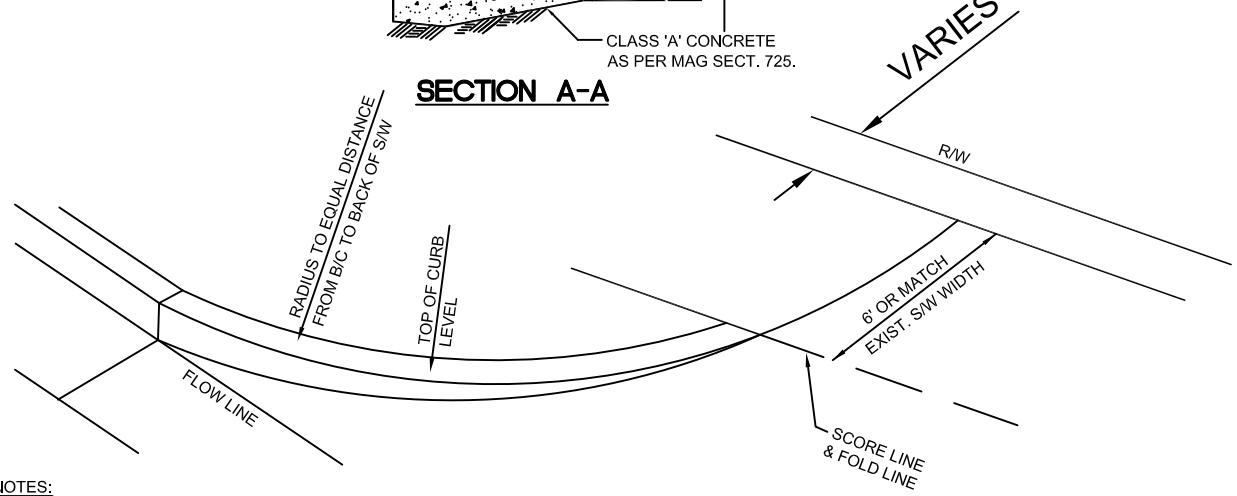
REVISED: MARCH 2014

DETAIL NO. **G-454**



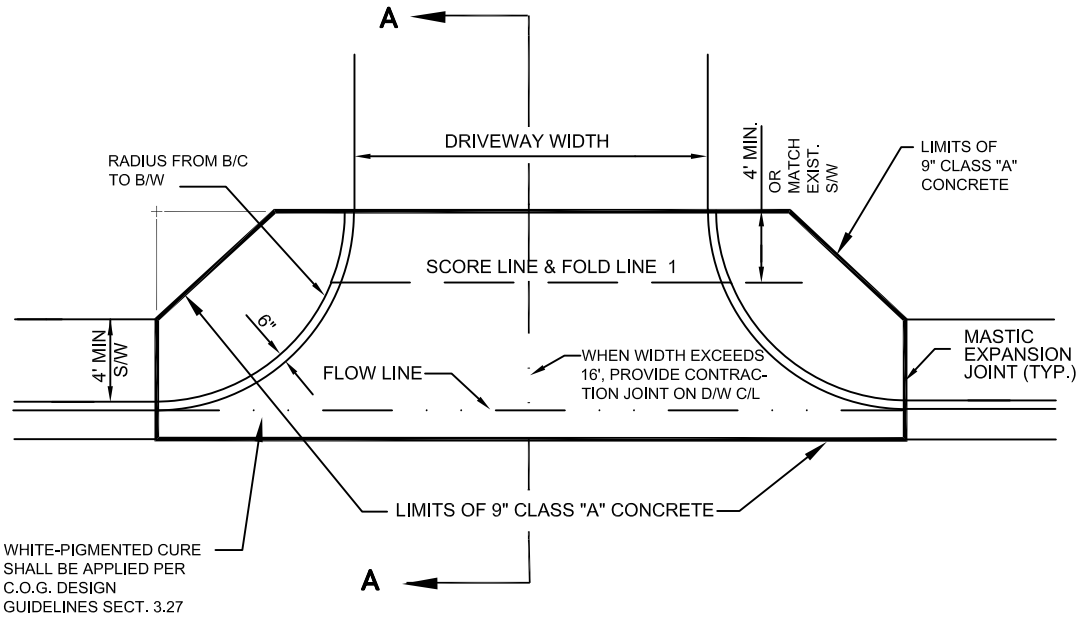


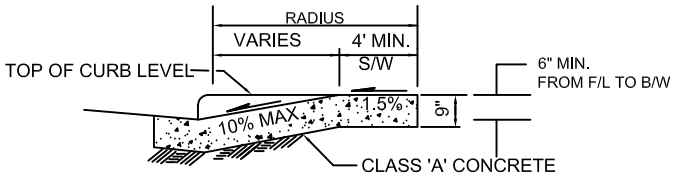
SECTION A-A



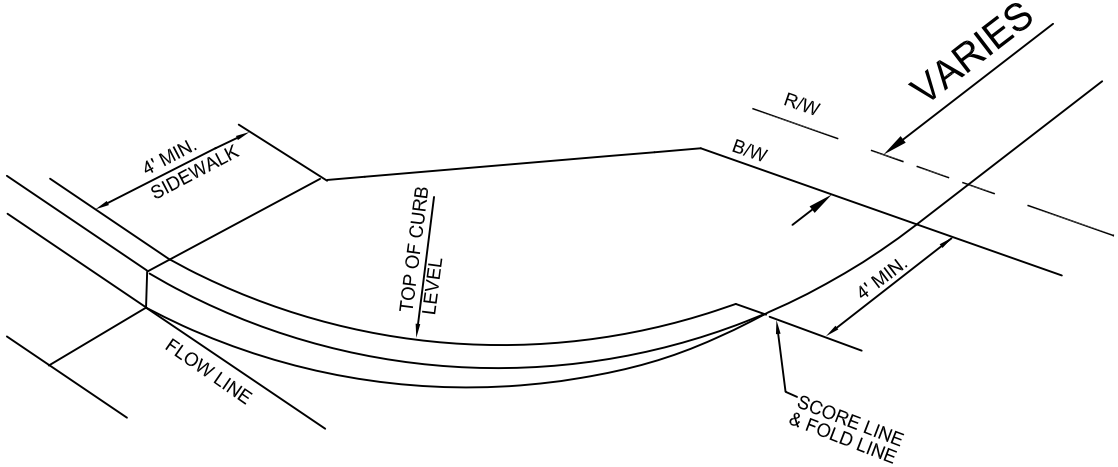
NOTES:
1. EXPANSION JOINT FILLER SHALL BE 1/2 INCH BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751.
2. SUBGRADE PREPERATION PER MAG SECT 301 COMPACT TO 95% STANDARD PROCTOR PER COG SECT 3.60 AND 3.61

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**RETURN TYPE DRIVEWAYS WITH DETACHED SIDEWALK**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-456**



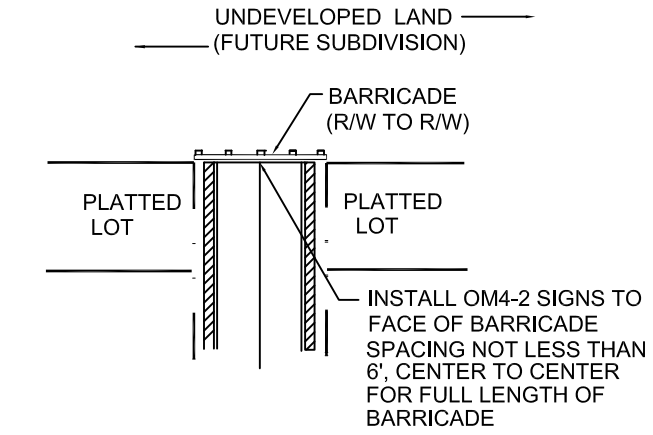


SECTION A-A

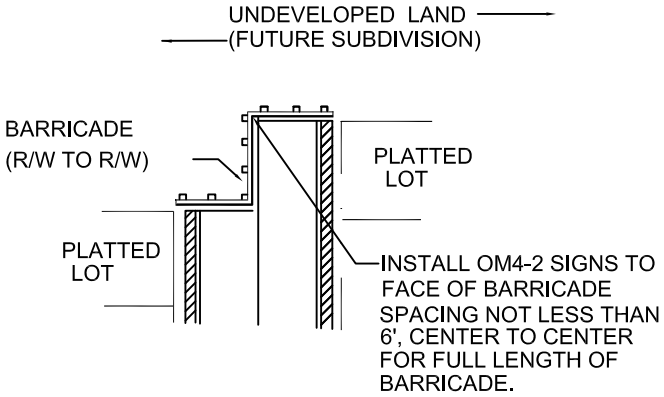


NOTES:
1. EXPANSION JOINT FILLER SHALL BE 1/2 INCH BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, A.S.T.M. D-1751.
2. SUBGRADE PREPERATION PER MAG SECT 301 COMPACT TO 95% STANDARD PROCTOR PER COG SECT 3.60 AND 3.61

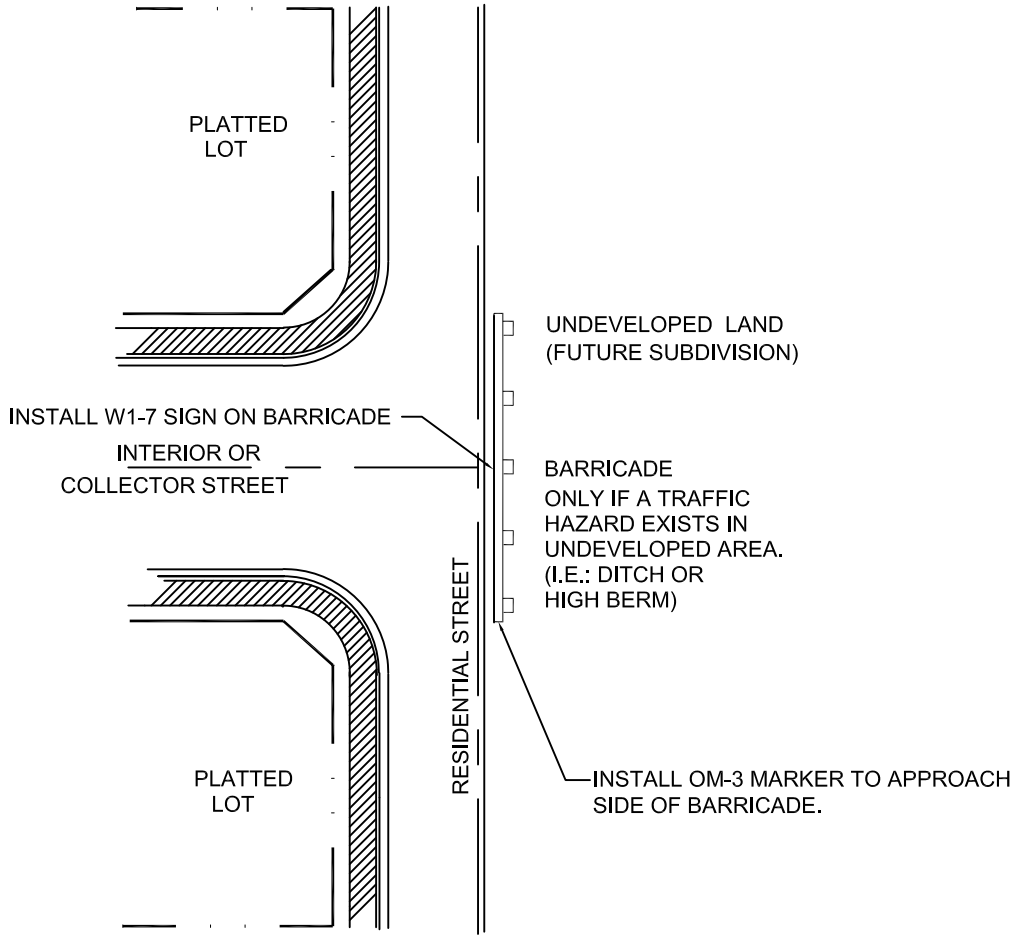
CITY OF GLENDALE STANDARD DETAIL	GLENDALE	RETURN TYPE DRIVEWAYS WITH ATTACHED SIDEWALK	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-458



SIMPLE DEAD-END



STAGGERED DEAD-END

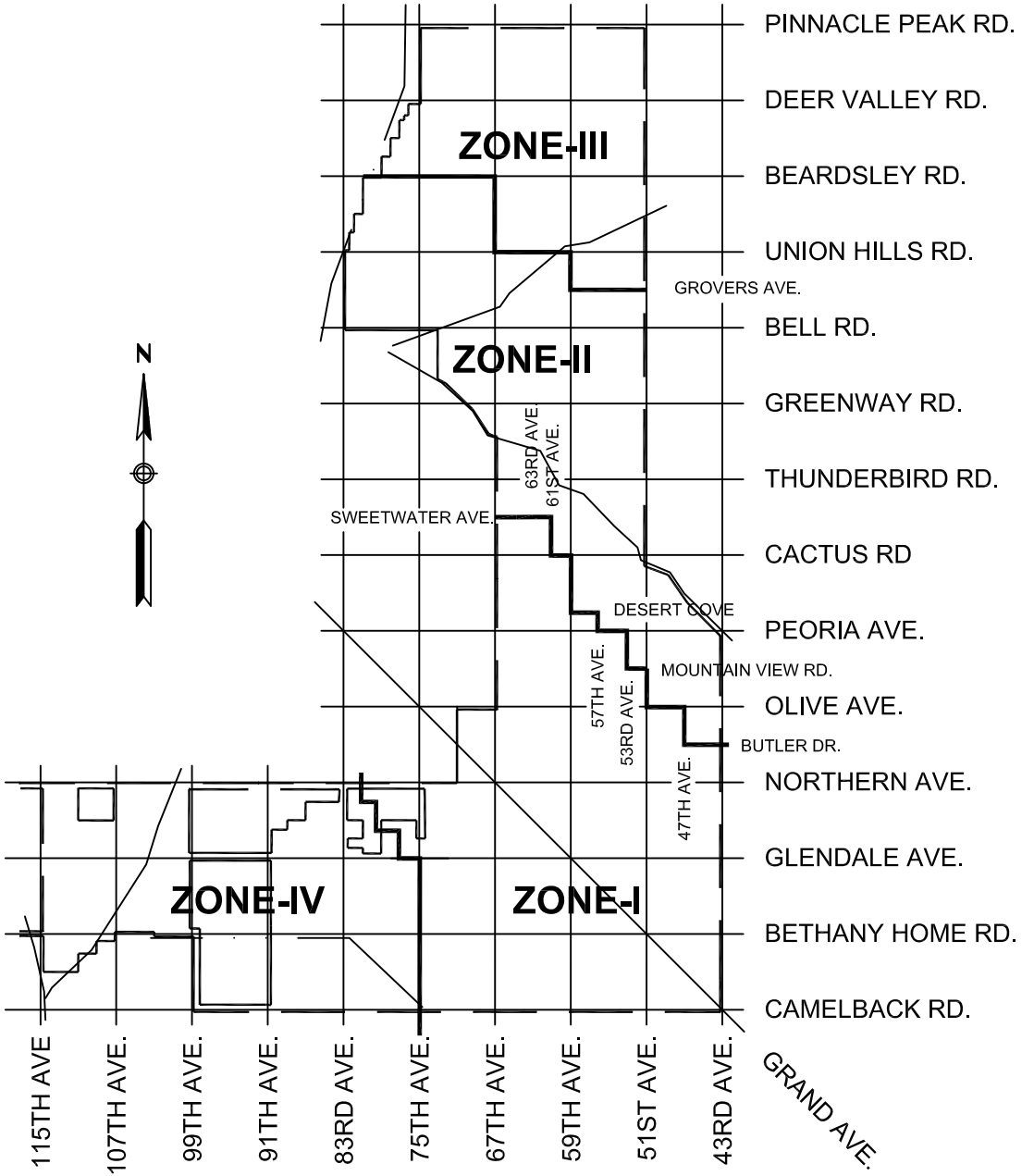


"T" INTERSECTION

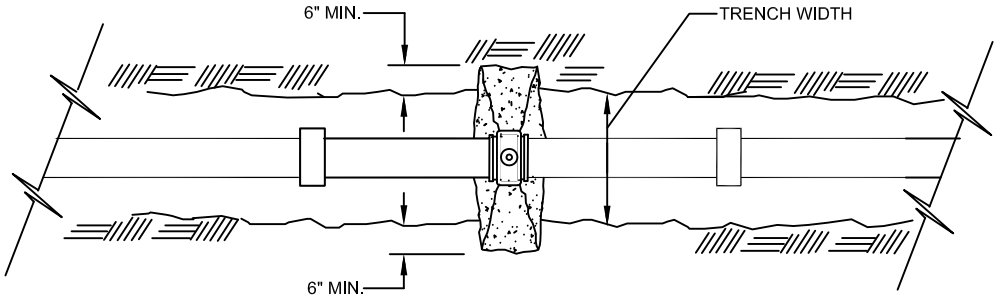
NOTES:

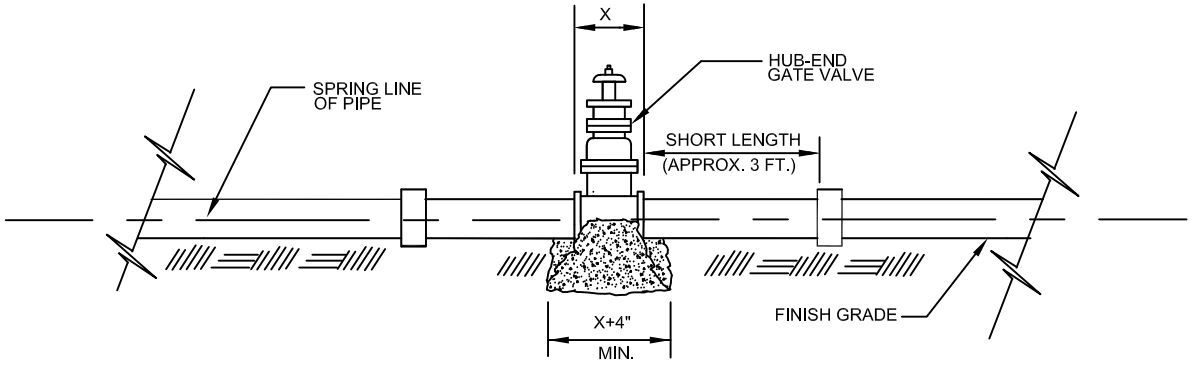
ALL BARRICADES SHALL BE INSTALLED ACCORDING TO MAG STANDARD 130-B.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**BARRICADING ON SUBDIVISION STREETS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-460**

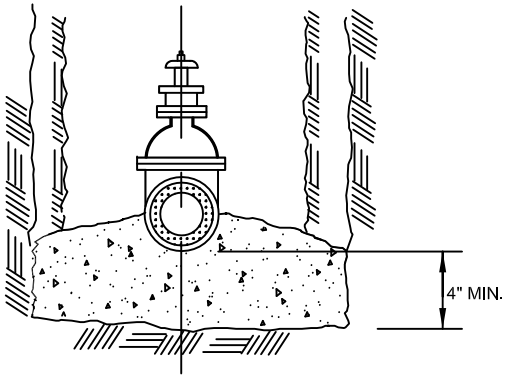


CITY OF GLENDALE STANDARD DETAIL		WATER DISTRIBUTION SYSTEM ZONES	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-600





CLASS C CONCRETE AS PER SECTION 725
FORM AS REQUIRED TO KEEP CLEAR OF JOINTS.

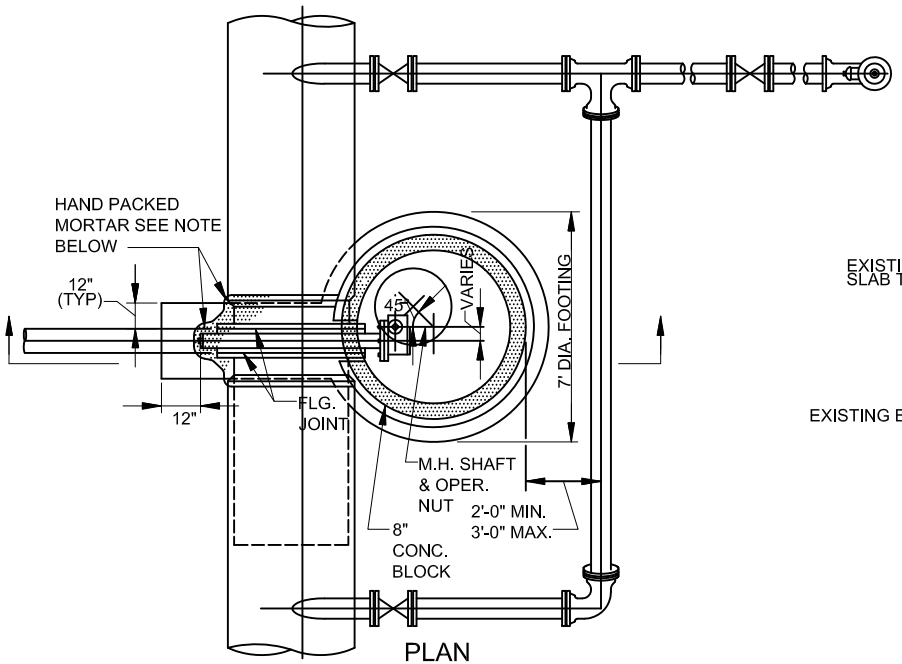


WATER GATE VALVE

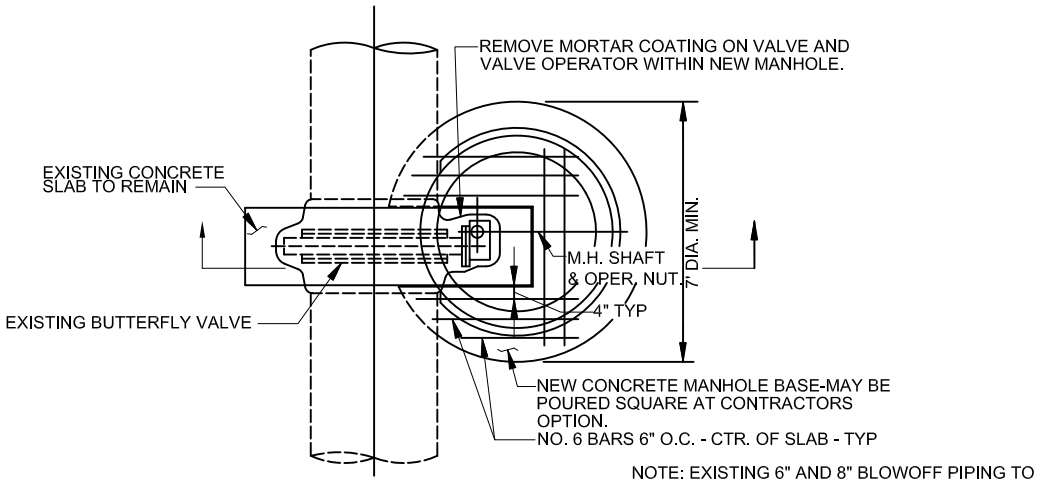
NOTE:

THIS DETAIL COVERS WATER GATE VALVES, 4" TO 16" INCLUSIVE, REGARDLESS OF TYPE OF PIPE USED. LARGER LINES TO BE DETAILED ON PLANS.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**BLOCKING FOR WATER GATE VALVES**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-601**

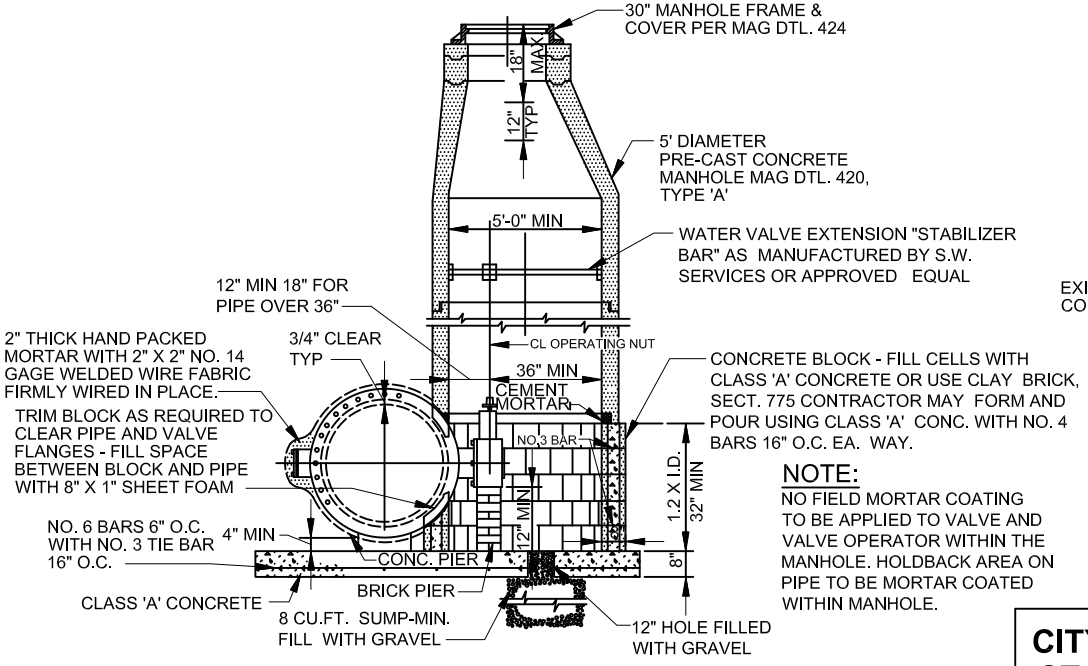


PLAN



NOTE: EXISTING 6" AND 8" BLOWOFF PIPING TO BE REMOVED AND REPLACED AS REQUIRED TO CLEAR MANHOLE SHAFT A MIN. OF 2'. NEW 6" AND 8" WATERLINES TO BE D.I.P. WITH APPROVED JOINT RESTRAINTS.

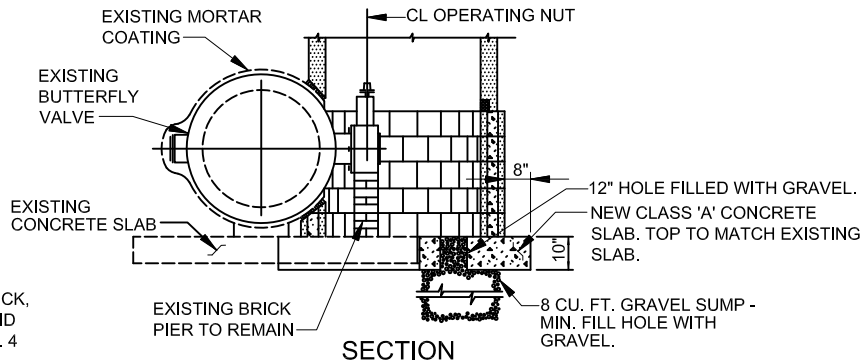
PLAN



NOTE:
NO FIELD MORTAR COATING TO BE APPLIED TO VALVE AND VALVE OPERATOR WITHIN THE MANHOLE. HOLDBACK AREA ON PIPE TO BE MORTAR COATED WITHIN MANHOLE.

SECTION

VALVE VAULT INSTALLATION FOR NEW BUTTERFLY VALVE



SECTION

VALVE VAULT INSTALLATION FOR EXISTING BUTTERFLY VALVE

NOTE:
MANHOLE TO BE CONSTRUCTED AS DETAILED IN NEW INSTALLATION

CITY OF GLENDALE STANDARD DETAIL

GLENDALE

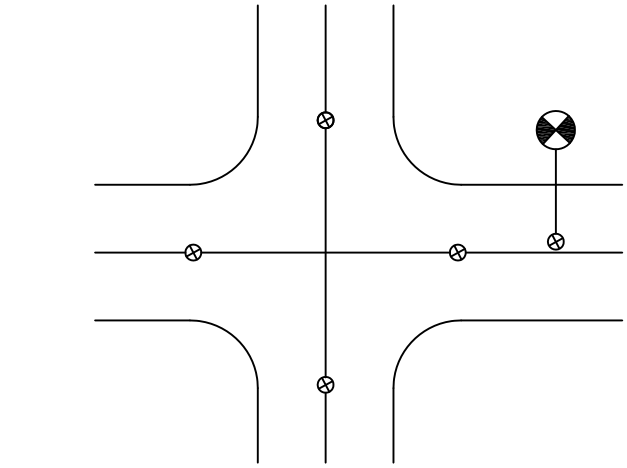
MANHOLE FOR BUTTERFLY VALVES

APPROVED BY: CITY ENGINEER — David D. Beard, P.E.

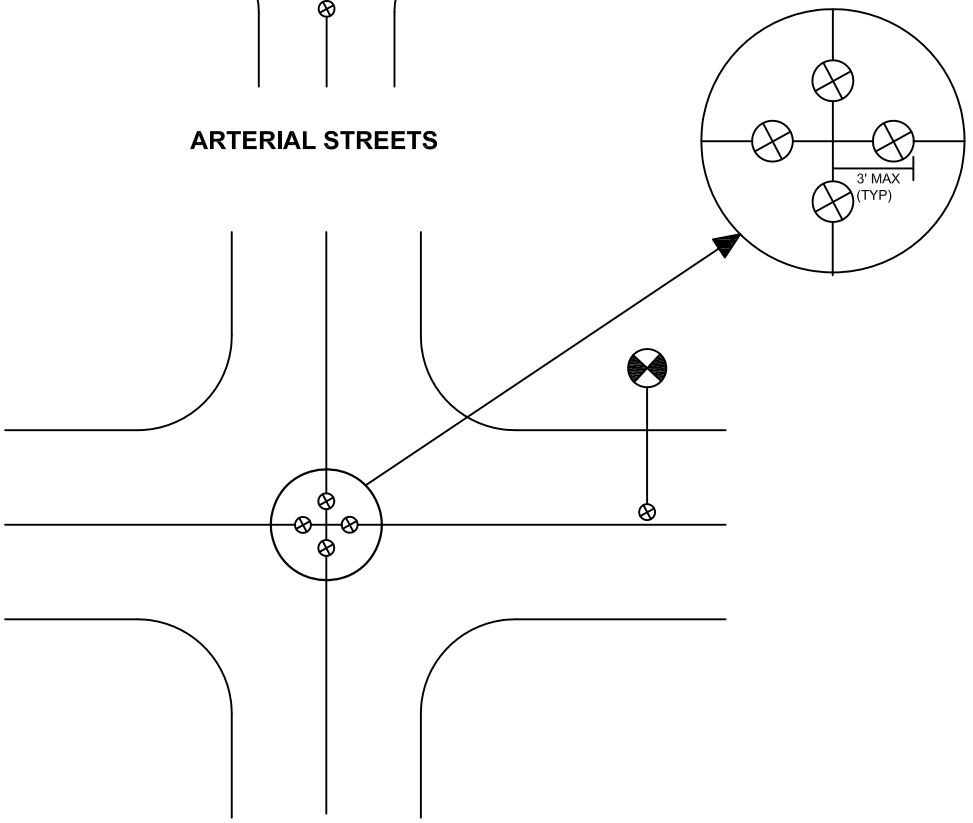
DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO. **G-605**

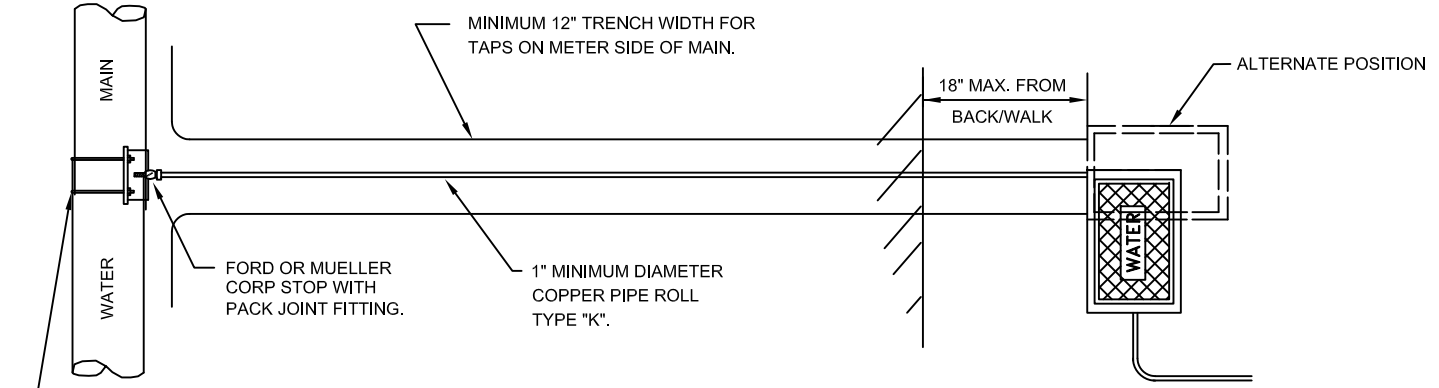


ARTERIAL STREETS

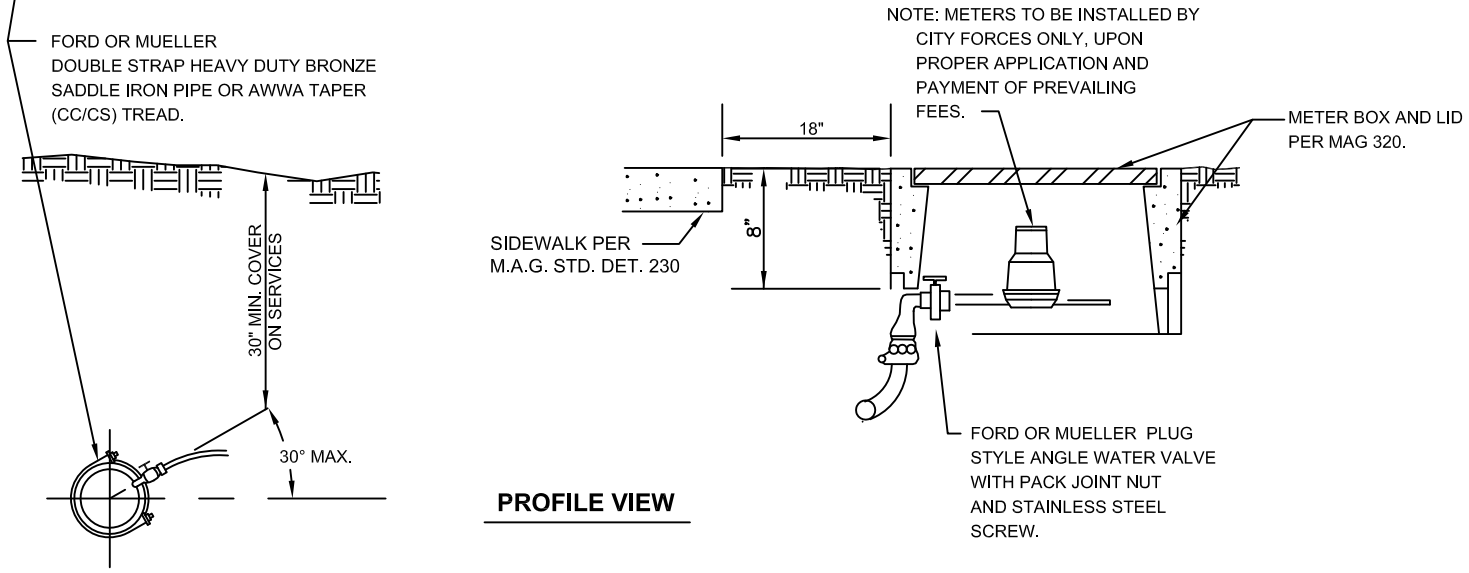


LOCAL AND COLLECTOR STREETS

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	TYPICAL VALVE LOCATIONS	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-607



PLAN VIEW

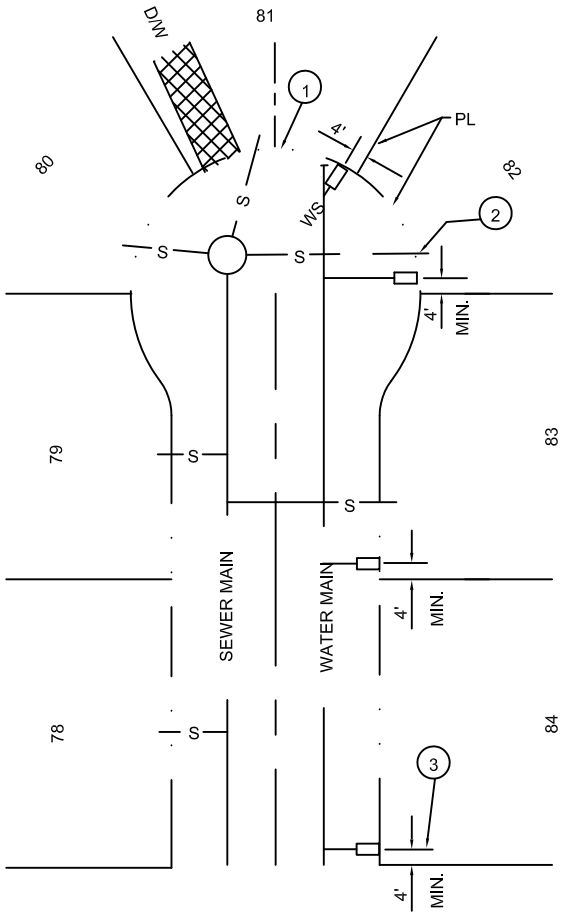


PROFILE VIEW

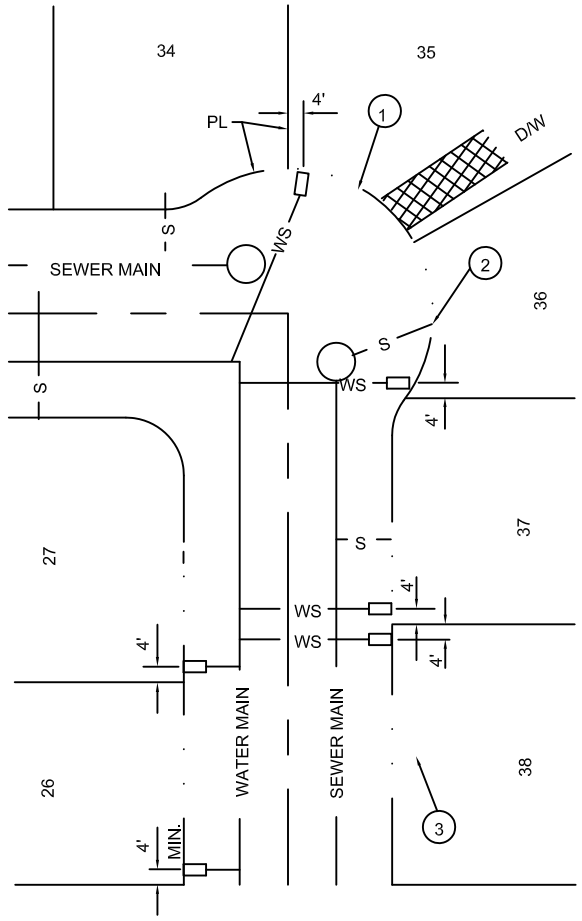
NOTE: FOR 1", 1-1/2" AND 2" WATER SERVICE CONNECTIONS TO 6" OR LARGER WATER MAINS.

1. ALL TAPS MUST BE MADE BY USING A SERVICE SADDLE AS SHOWN.
2. CONTRACTOR IS TO TAP THE MAIN AND INSTALL WATER SERVICES. THEY SHALL INCLUDE THE CORP STOP, SERVICE PIPE, APPURTENANT FITTINGS, CURB STOP, METER BOX AND COVER.
3. ALL SERVICES SHALL HAVE 3' MINIMUM SEPARATION FROM OTHER SERVICES,JOINTS, VALVES AND FITTINGS.
4. THIS DETAIL IS APPLICABLE TO BOTH AUTHORIZED PERSONNEL OR DEVELOPERS CONTRACTORS.
5. 5/8"X3/4" AND 1" METERS SHALL BE INSTALLED WITH A METER CONNECTOR.
6. 1-1/2" AND 2" WATER METERS SHALL BE INSTALLED WITH A BALL VALVE ON THE DOWNSTREAM SIDE OF THE WATER METER.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**WATER SERVICE CONNECTIONS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-642**



TYPICAL CUL-DE-SAC

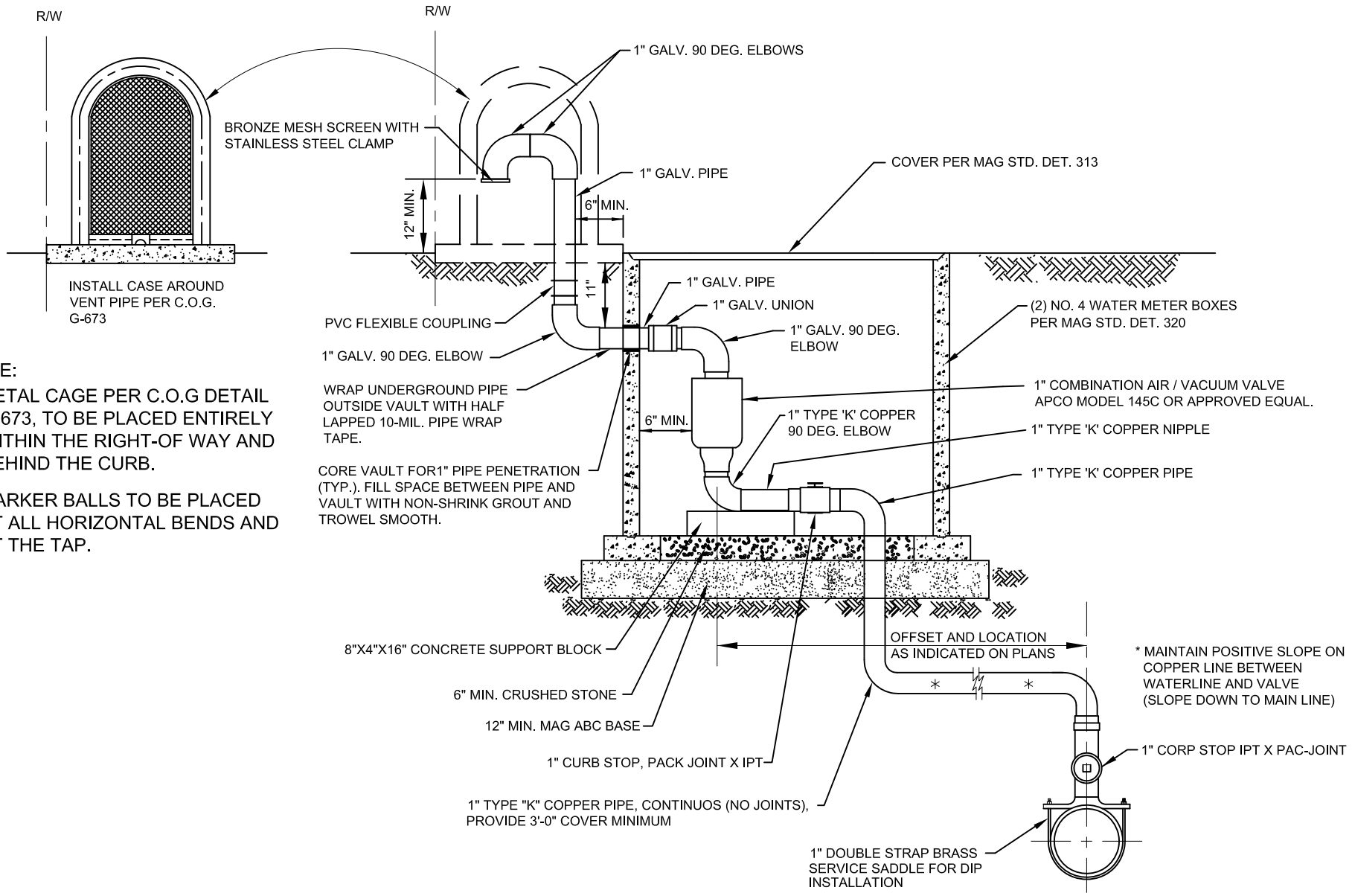


TYPICAL DOG-LEG

NOTES:

1. IT IS THE DEVELOPERS RESPONSIBILITY TO LOCATE WATER SERVICE AT LEAST 4' FROM PROPERTY LINE OF LOT. LOCATION SHOULD NOT CONFLICT WITH DRIVEWAYS OR SEWER TAP. CURB STOP TO BE 18" BEHIND AND 8" BELOW FINISHED SIDEWALK.
2. SEWER TAP IS TO BE LOCATED 5' FROM CENTER OF LOT.
3. ALL SEWER TAPS SHALL BE STATIONED USING THE CLOSEST DOWNSTREAM MANHOLE AS STATION 0+00. SEE SECTION 8.25.
4. ALL SEWER TAPS INTO MANHOLES SHALL BE DIMENSIONED FROM THE PROPERTY LINE.
5. IN CASES WHERE DRIVEWAYS MAY CONFLICT WITH NORMAL PLACEMENTS OF WATER AND/OR SEWER SERVICES, DEVELOPERS MAY PROPOSE ALTERNATIVE LOCATIONS HOWEVER, IN NO CASE WILL WATER SERVICES BE CLOSER THAN 4' OR SEWER SERVICES CLOSER THAN 6' TO PROPERTY LINES.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**WATER SERVICE AND SEWER SERVICE LOCATIONS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-643**



NOTE:

1. METAL CAGE PER C.O.G DETAIL G-673, TO BE PLACED ENTIRELY WITHIN THE RIGHT-OF WAY AND BEHIND THE CURB.
2. MARKER BALLS TO BE PLACED AT ALL HORIZONTAL BENDS AND AT THE TAP.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**1" COMBINATION AIR RELEASE / VACUUM VALVE**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-646**

FIGURE 1

TWO LANE STREET

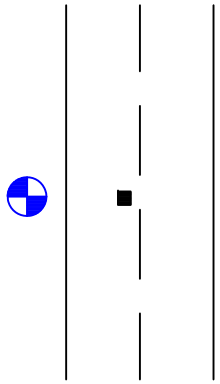


FIGURE 2

MULTI-LANE STREET

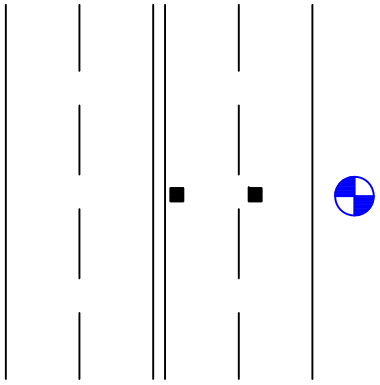


FIGURE 3

TWO LANE STREET

AT INTERSECTION

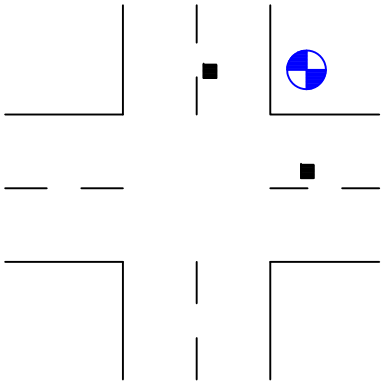


FIGURE 4

FOUR LANE STREET WITH

TURN LANE AT INTERSECTION

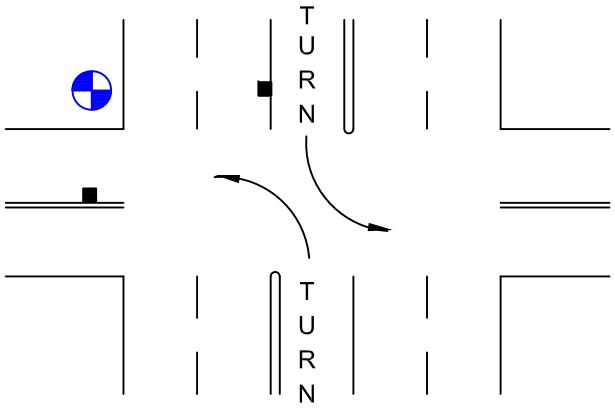


FIGURE 5

MULTI-LANE STREET WITH

TURN LANE

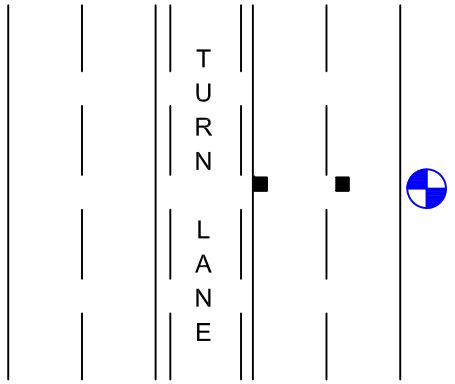
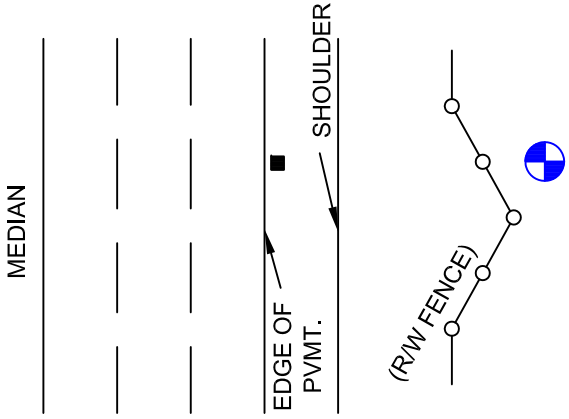


FIGURE 6

FREEWAYS AND

EXPRESSWAYS



KEY:

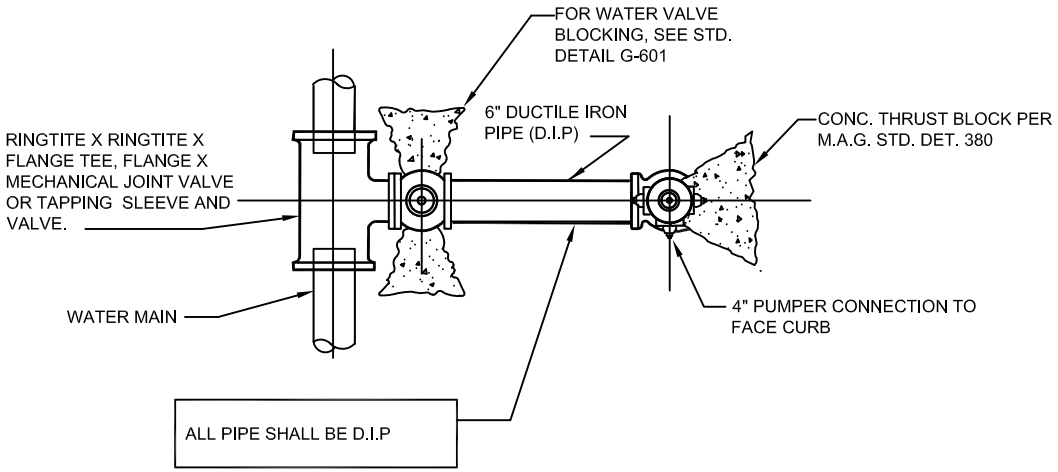
FIRE HYDRANT

FIRE HYDRANT MARKER

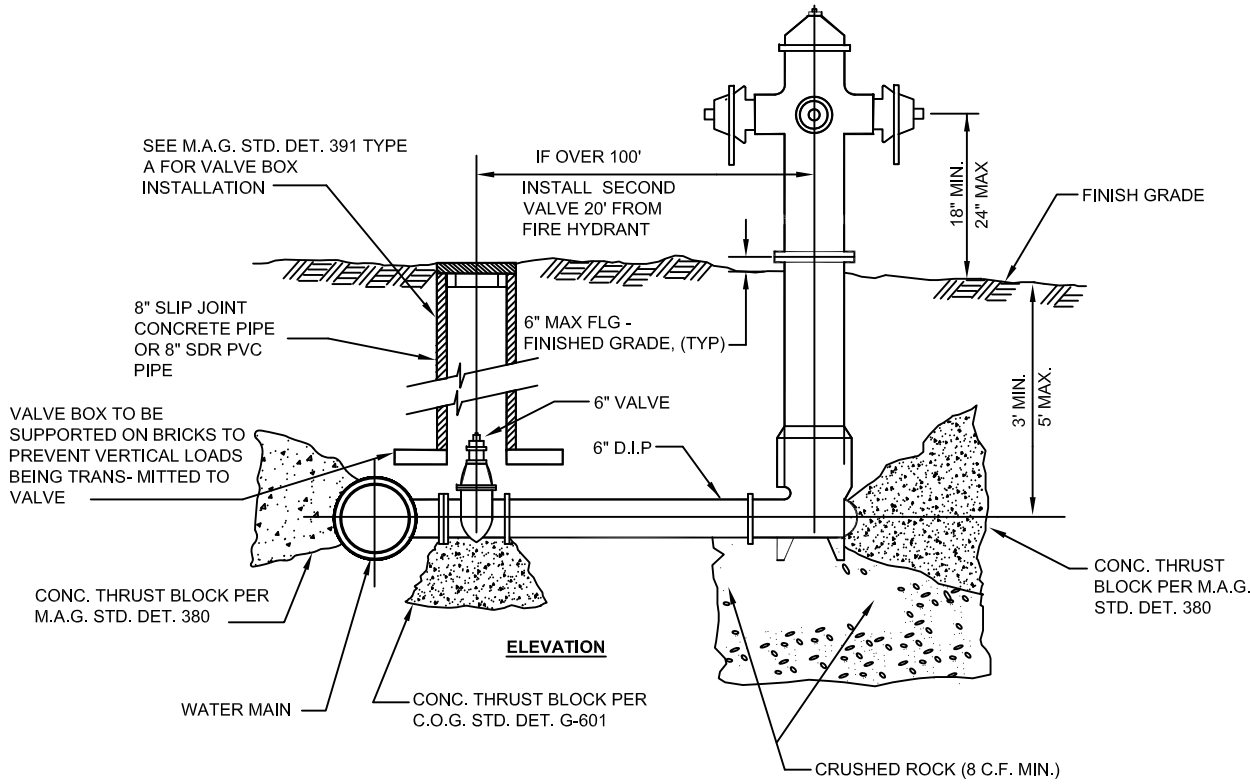
NOTE:

HYDRANT MARKERS SHALL BE INSTALLED 6" FROM PAINT STRIPES.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**TYPICAL HYDRANT MARKER LOCATION**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-650**

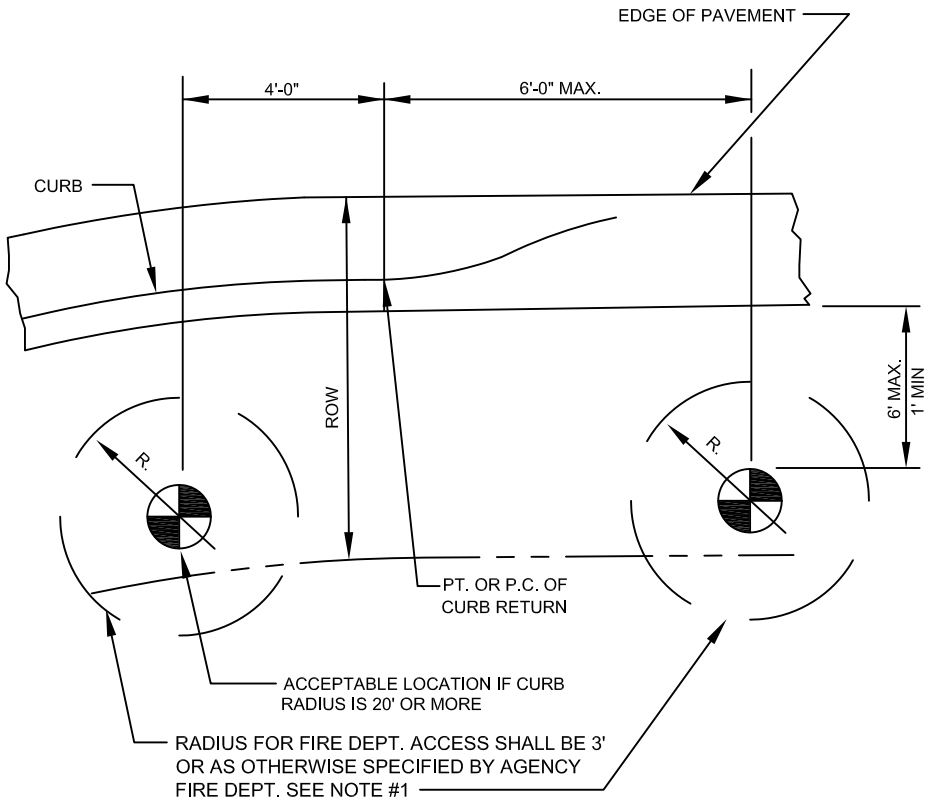


PLAN



ELEVATION

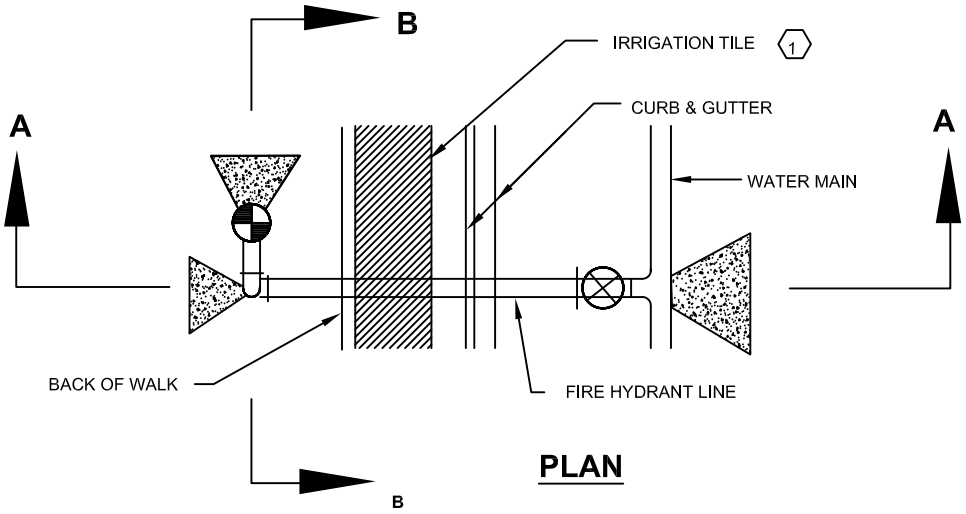
CITY OF GLENDALE STANDARD DETAIL GLENDALE		**FIRE HYDRANT INSTALLATION**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-660**



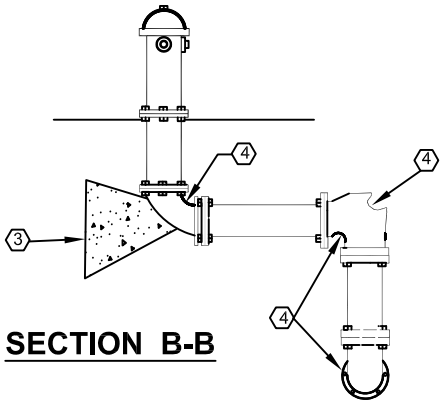
NOTES:

1. NO OBSTRUCTION WITHIN 3' OF HYDRANT. OBSTRUCTIONS SUCH AS UTILITY POLES, STREET SIGNS, IRRIGATION BOXES, FENCES, ETC., MUST NOT BE PLACED BETWEEN CURB AND HYDRANT AND WITHIN THE RADIUS FOR FIRE DEPT. ACCESS.
2. ANY DEVIATION FROM THIS DETAIL SHALL REQUIRE GFD APPROVAL.
3. ON LOCATIONS IN MIDBLOCK, THE FIRE HYDRANTS SHALL BE SET A MAXIMUM 6' FROM FACE OF CURB OR EDGE OF FIRE LANE. (SEE DETAIL)
4. REFER TO DETAIL G-650 FOR FIRE HYDRANT MARKER LOCATIONS.

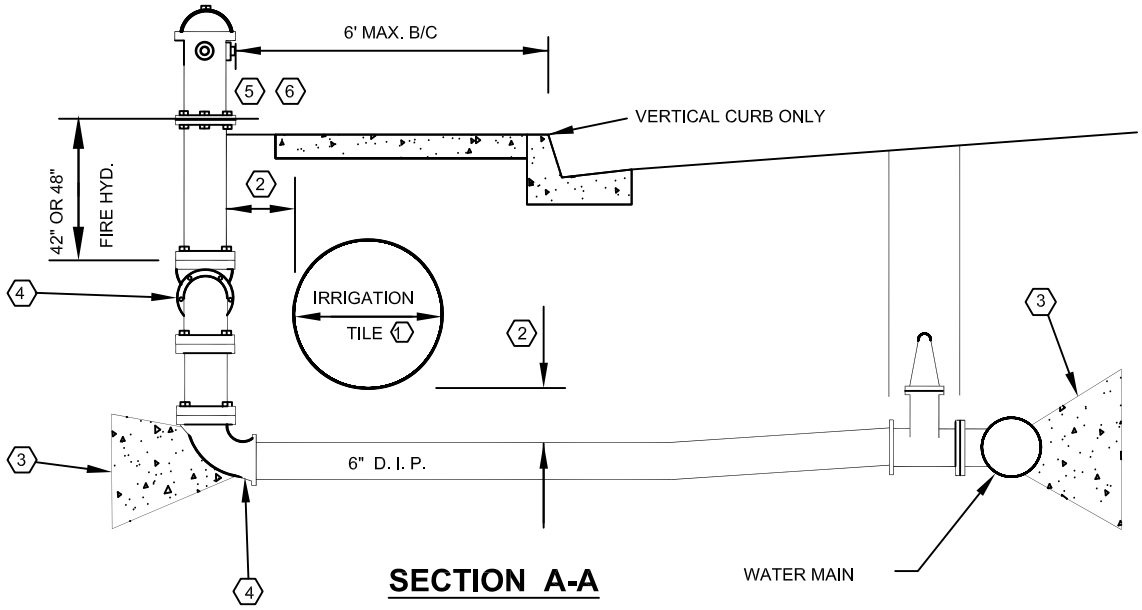
CITY OF GLENDALE STANDARD DETAIL GLENDALE		**LOCATION FOR NEW FIRE HYDRANTS**
APPROVED BY: FIRE MARSHAL David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-662**



PLAN



SECTION B-B

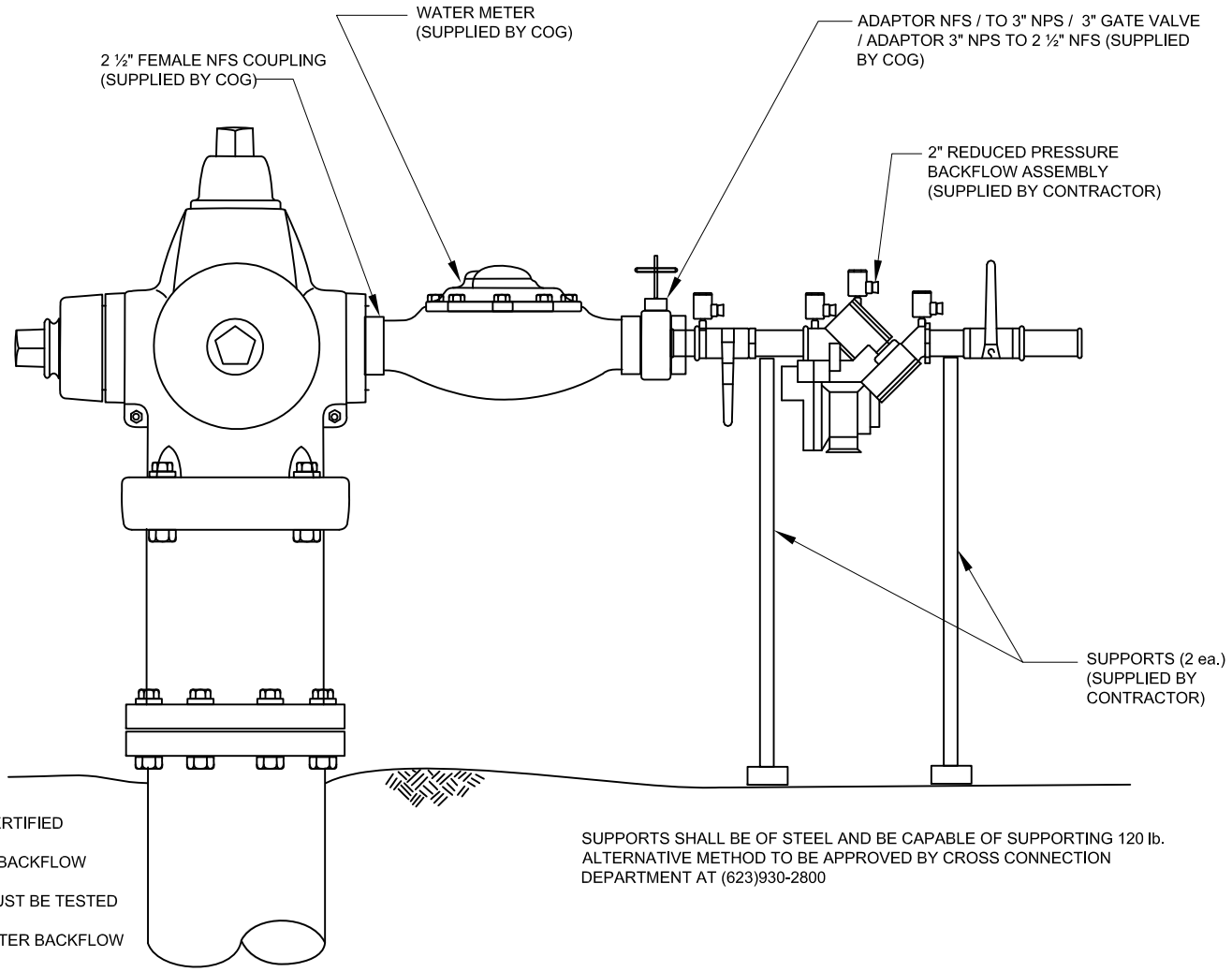


SECTION A-A

NOTES:

1. OR OTHER UTILITY.
2. 1' MIN. CITY OF GLENDALE REQUIREMENT OR INDIVIDUAL UTILITIES REQUIREMENT, WHICHEVER IS GREATER.
3. CONCRETE THRUST BLOCKS PER MAG STD. DET. 380.
4. RESTRAINED 90° BENDS
5. FIRE HYDRANT SHALL COMPLETELY CLEAR THE BACK OF SIDEWALK.
6. CENTER OF NOZZLES SHALL BE **18" MIN.** AND **24" MAX.** FROM FINISH GRADE.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**FIRE HYDRANT INSTALLATION WITH CONFLICTING UTILITY**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-665**



GENERAL NOTES:

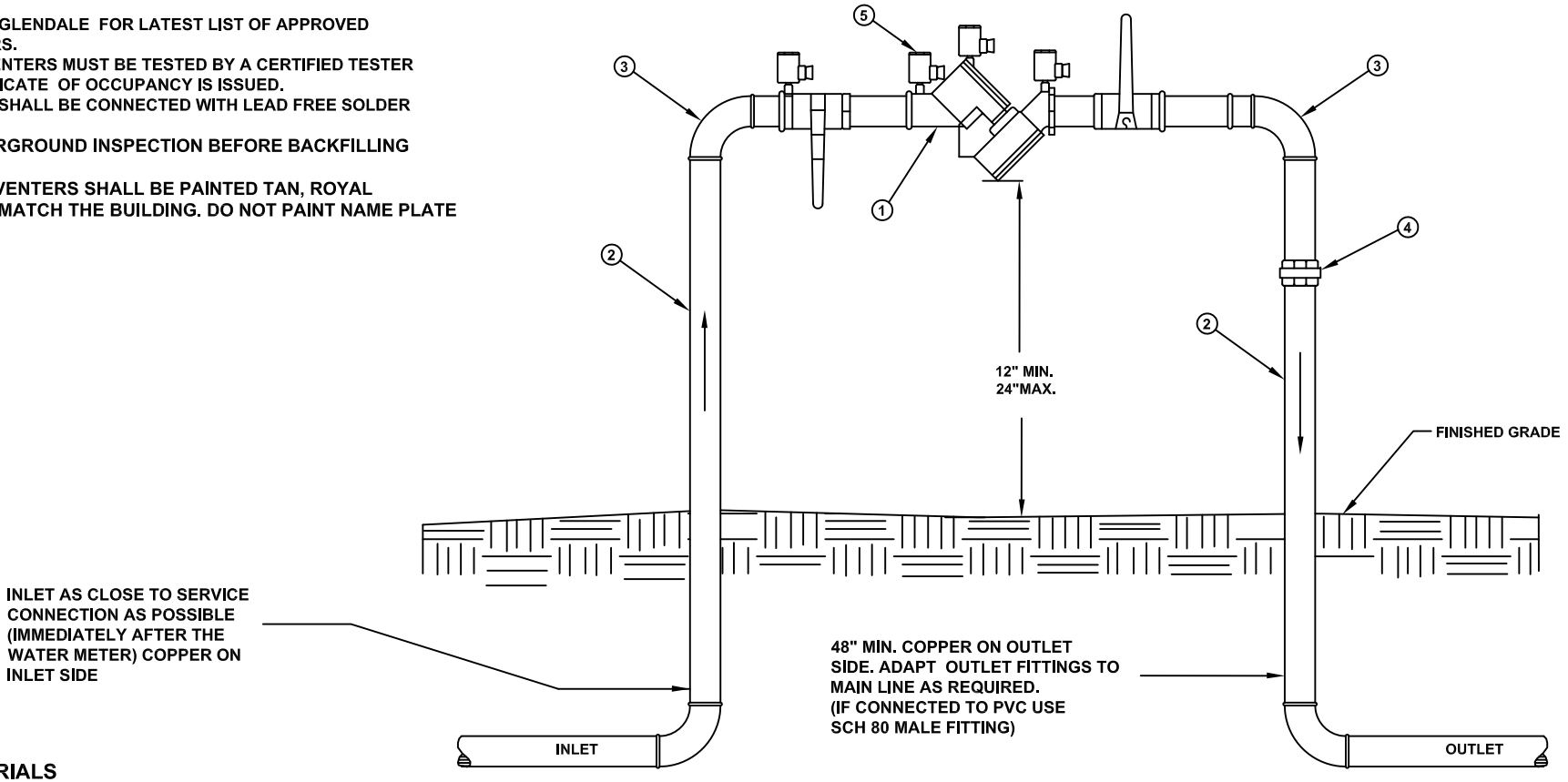
1. CONTACT CITY OF GLENDALE FOR LATEST LIST OF APPROVED CERTIFIED TESTERS.
2. CONTRACTOR MUST INSTALL A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RP) IMMEDIATELY.
3. AFTER THE HYDRANT METER IS SET. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER PRIOR TO USE.
4. AN INSPECTION BY THE CITY IS REQUIRED FOR ALL HYDRANT METER BACKFLOW PREVENTION ASSEMBLIES PRIOR TO USE.
5. EACH TIME THE HYDRANT METER BACKFLOW PREVENTION ASSEMBLY IS RELOCATED IT MUST BE TESTED.
6. CONTRACTOR WILL BE BILLED TO REPLACE & INSTALL ANY PARTS NOT RETURNED WITH HYDRANT METER.

SUPPORTS SHALL BE OF STEEL AND BE CAPABLE OF SUPPORTING 120 lb. ALTERNATIVE METHOD TO BE APPROVED BY CROSS CONNECTION DEPARTMENT AT (623)930-2800

CITY OF GLENDALE STANDARD DETAIL		REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR HYDRANT METERS	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-667

GENERAL NOTES

1. CONTACT CITY OF GLENDALE FOR LATEST LIST OF APPROVED CERTIFIED TESTERS.
2. BACKFLOW PREVENTERS MUST BE TESTED BY A CERTIFIED TESTER BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED.
3. COPPER FITTINGS SHALL BE CONNECTED WITH LEAD FREE SOLDER JOINTS.
4. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH .
5. BACKFLOW PREVENTERS SHALL BE PAINTED TAN, ROYAL OR A COLOR TO MATCH THE BUILDING. DO NOT PAINT NAME PLATE



LIST OF MATERIALS

① APPROVED DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.

② PIPE SPOOL, TYPE "K" HARD COPPER, 3/4" THRU 2 1/2".

③ 90° ELL, COPPER, 3/4" THRU 2 1/2".

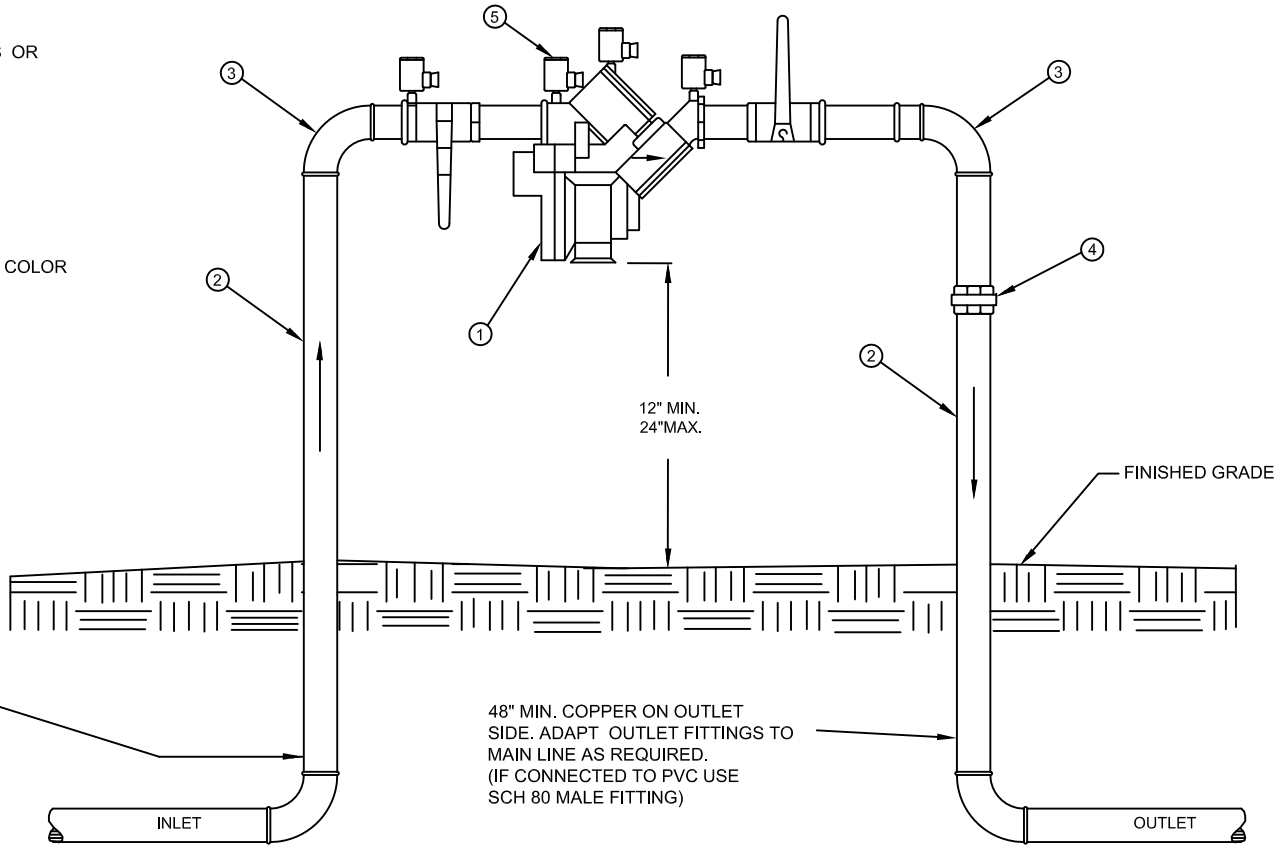
④ PIPE UNION, BRASS OR COPPER.

⑤ TEST COCKS WITH BRASS PLUGS OR ADAPTER WITH CAPS INSTALLED (4 REQUIRED).

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY 2-1/2 INCHES AND LESS	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-668

GENERAL NOTES

1. CONTACT CITY OF GLENDALE CROSS CONNECTION CONTROL FOR LATEST LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES OR CERTIFIED TESTERS.
2. BACKFLOW PREVENTERS MUST BE TESTED BY A CERTIFIED TESTER BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED. SEE CROSS CONNECTION WEBSITE FOR APPROVED TESTING COMPANIES.
3. COPPER FITTINGS SHALL BE CONNECTED WITH LEAD FREE SOLDER JOINTS.
4. SEE C.O.G. STD. DETAIL G-673 FOR METAL CAGE DETAILS.
5. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH .
6. BACKFLOW PREVENTERS SHALL BE PAINTED TAN, ROYAL BLUE OR THE COLOR TO MATCH THE BUILDING. DO NOT PAINT NAME PLATE.



LIST OF MATERIALS

① APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.

② PIPE SPOOL, TYPE "K" HARD COPPER, 3/4" THRU 2 1/2".

③ 90° ELL, COPPER, 3/4" THRU 2 1/2".

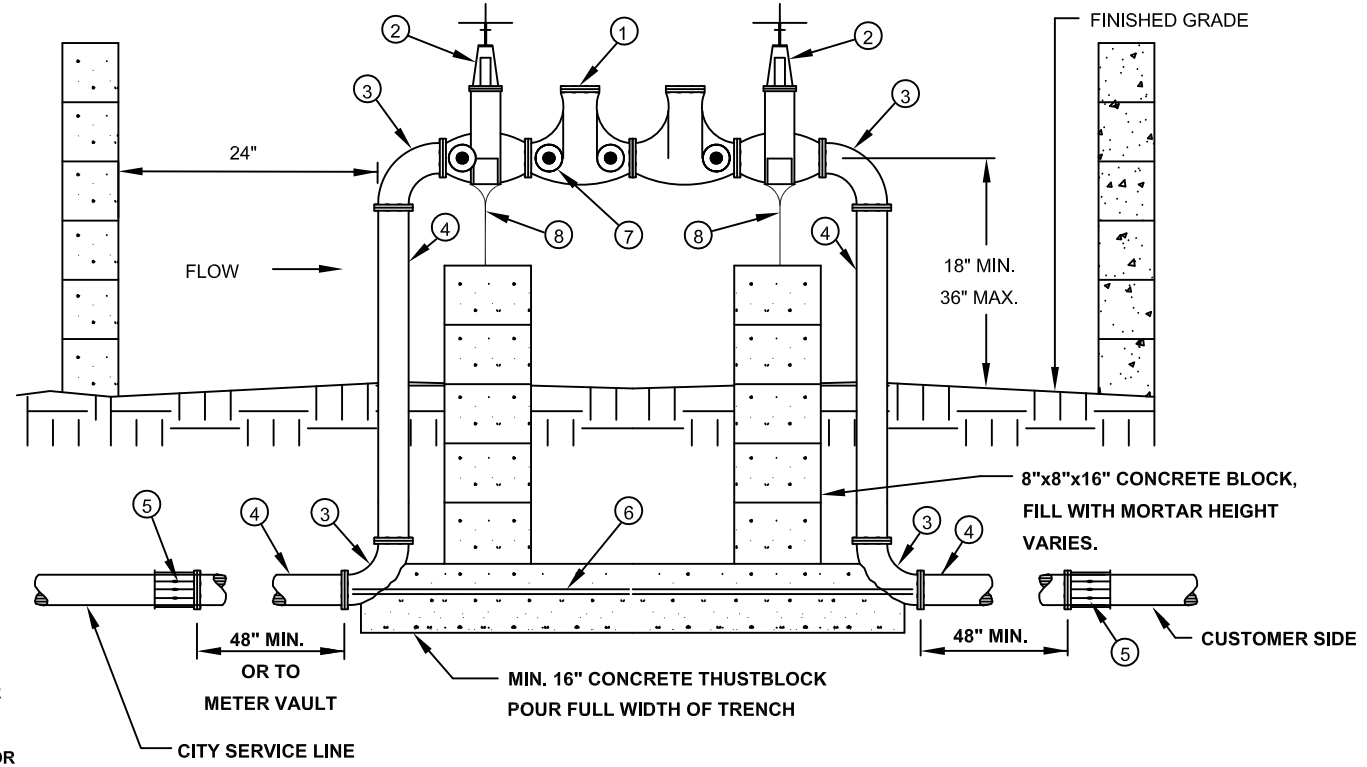
④ PIPE UNION, BRASS OR COPPER.

⑤ TEST COCKS WITH BRASS PLUGS OR ADAPTER WITH CAPS INSTALLED (4 REQUIRED).

CITY OF GLENDALE STANDARD DETAIL GLENDALE	**REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY 2-1/2 INCHES AND LESS**	
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-669**

LIST OF MATERIALS

1. APPROVED DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY.
2. RESILIENT SEATED GATE VALVE.
   O.S. & Y. (FIRE LINE CONNECTION)
   N.R.S. (NON FIRE LINE)
3. 90° ELL. FLANGED D.I.P. 3" THRU 10".
4. PIPE SPOOL FLANGED D.I.P. 3" THRU 10".
5. FLANGED ADAPTER (WHEN REQUIRED).
6. 3/4" ZINC COATED THREADED ROD, BOLT TO FLANGES AS SHOWN, TYPICAL BOTH SIDES.
7. TEST COCKS WITH BRASS PLUGS OR ADAPTERS WITH CAPS INSTALLED. (4 REQUIRED).
8. ADJUSTABLE METAL PIPE SUPPORTS. (ASSEMBLIES 4" AND LARGER).



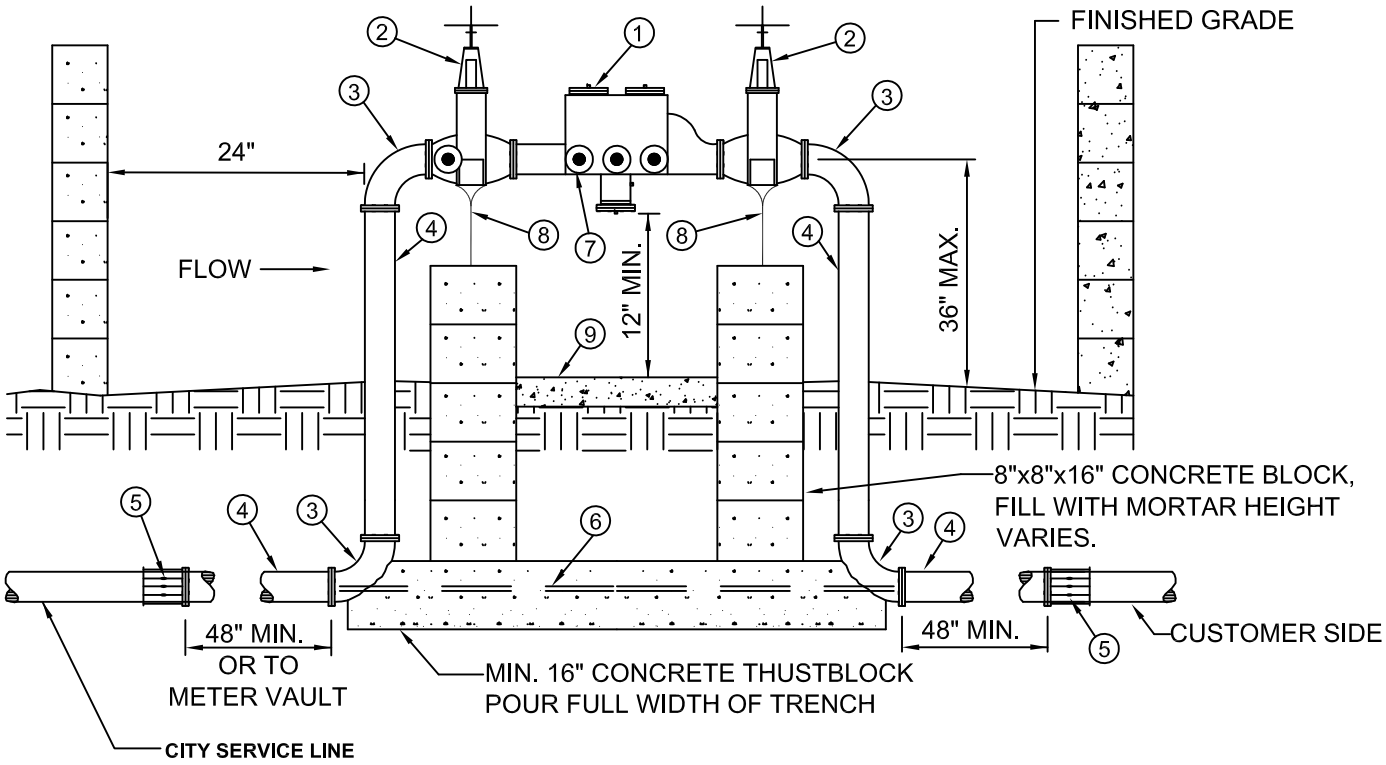
GENERAL NOTES

1. CONTACT CITY OF GLENDALE FOR LATEST LIST OF APPROVED CERTIFIED TESTERS.
2. BACKFLOW PREVENTERS MUST BE TESTED BY A CERTIFIED TESTER BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED.
3. BACKFLOW PREVENTERS SHALL BE PAINTED LIGHT TAN OR A COLOR TO MATCH THE BUILDING. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS ON THE ASSEMBLY.
4. FOR BACKFLOW PREVENTERS REQUIRING GUARD POSTS SEE DETAIL G-672. BACKFLOW PREVENTERS FOR 3-INCH AND LARGER WILL BE ENCLOSED BY A SCREENING WALL AND SHALL MAINTAIN A 24 INCH CLEARANCE AROUND THE ASSEMBLY.
5. BACKFLOW PREVENTERS ON FIRE LINES MAY REQUIRE TAMPER SWITCHES ON THE SHUT OFF VALVES.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.

CITY OF GLENDALE STANDARD DETAIL		DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY 3 INCHES AND LARGER	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-670

LIST OF MATERIALS

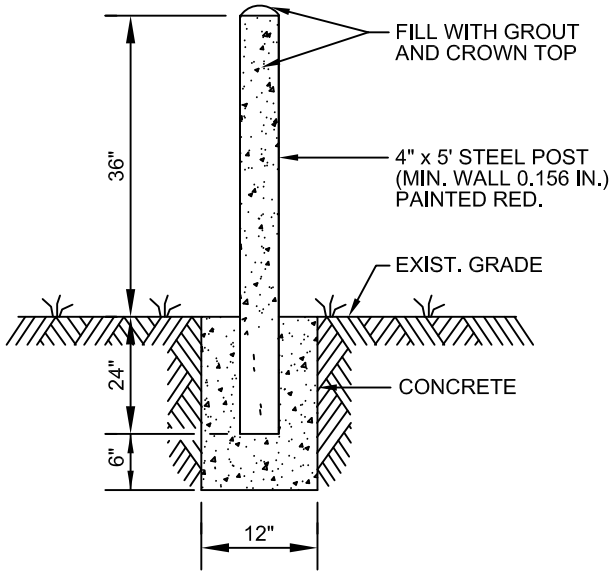
1. APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY.
2. RESILIENT SEATED GATE VALVE. O.S. & Y. (FIRE LINE CONNECTION) N.R.S. (NON FIRE LINE)
3. 90° ELL. FLANGED D.I.P. 3" THRU 10".
4. PIPE SPOOL FLANGED D.I.P. 3" THRU 10".
5. FLANGED ADAPTER (WHEN REQUIRED).
6. 3/4" ZINC COATED THREADED ROD, BOLT TO FLANGES AS SHOWN, TYPICAL BOTH SIDES.
7. TEST COCKS WITH BRASS PLUGS OR ADAPTERS WITH CAPS INSTALLED. (4 REQUIRED).
8. ADJUSTABLE METAL PIPE SUPPORTS. (ASSEMBLIES 4" AND LARGER).
9. CONCRETE SPLASH PAD 4" THICK BY MINIMUM 18" WIDE REQUIRED BENEATH 4" AND LARGER ASSEMBLIES.



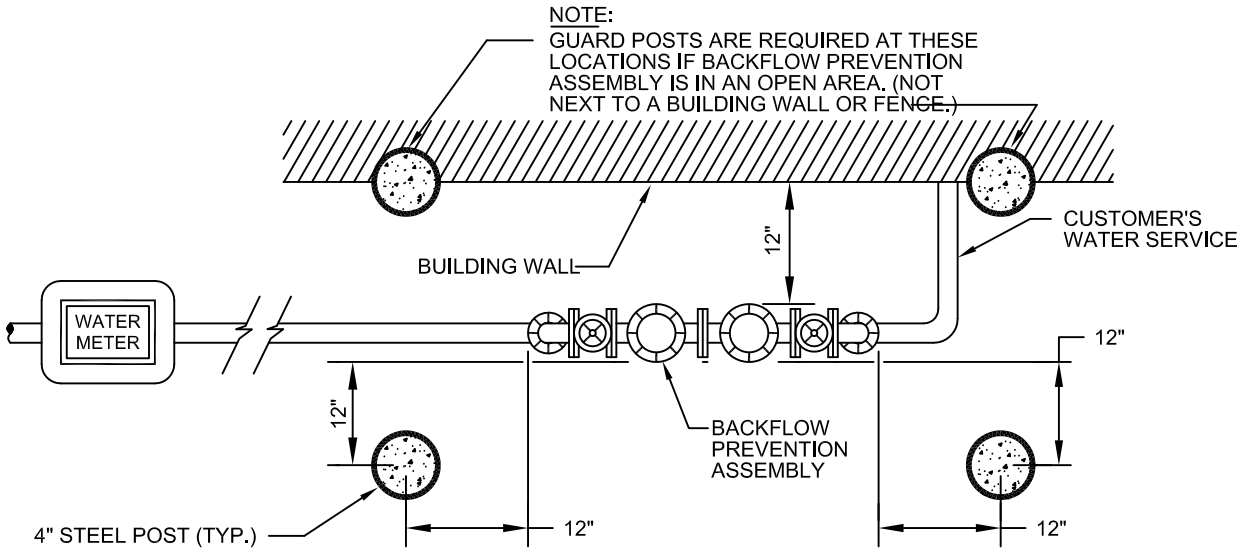
GENERAL NOTES

1. CONTACT CITY OF GLENDALE FOR LATEST LIST OF APPROVED CERTIFIED TESTERS.
2. BACKFLOW PREVENTERS MUST BE TESTED BY A CERTIFIED TESTER BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED.
3. BACKFLOW PREVENTERS SHALL BE PAINTED LIGHT TAN OR A COLOR TO MATCH THE BUILDING. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS ON THE ASSEMBLY.
4. FOR BACKFLOW PREVENTERS REQUIRING GUARD POSTS SEE DETAIL G-672. BACKFLOW PREVENTERS FOR 3-INCH AND LARGER WILL BE ENCLOSED BY A SCREENING WALL AND SHALL MAINTAIN A 24 INCH CLEARANCE AROUND THE ASSEMBLY.
5. BACKFLOW PREVENTERS ON FIRE LINES MAY REQUIRE TAMPER SWITCHES ON THE SHUT OFF VALVES.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR 3 INCHES AND LARGER	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-671



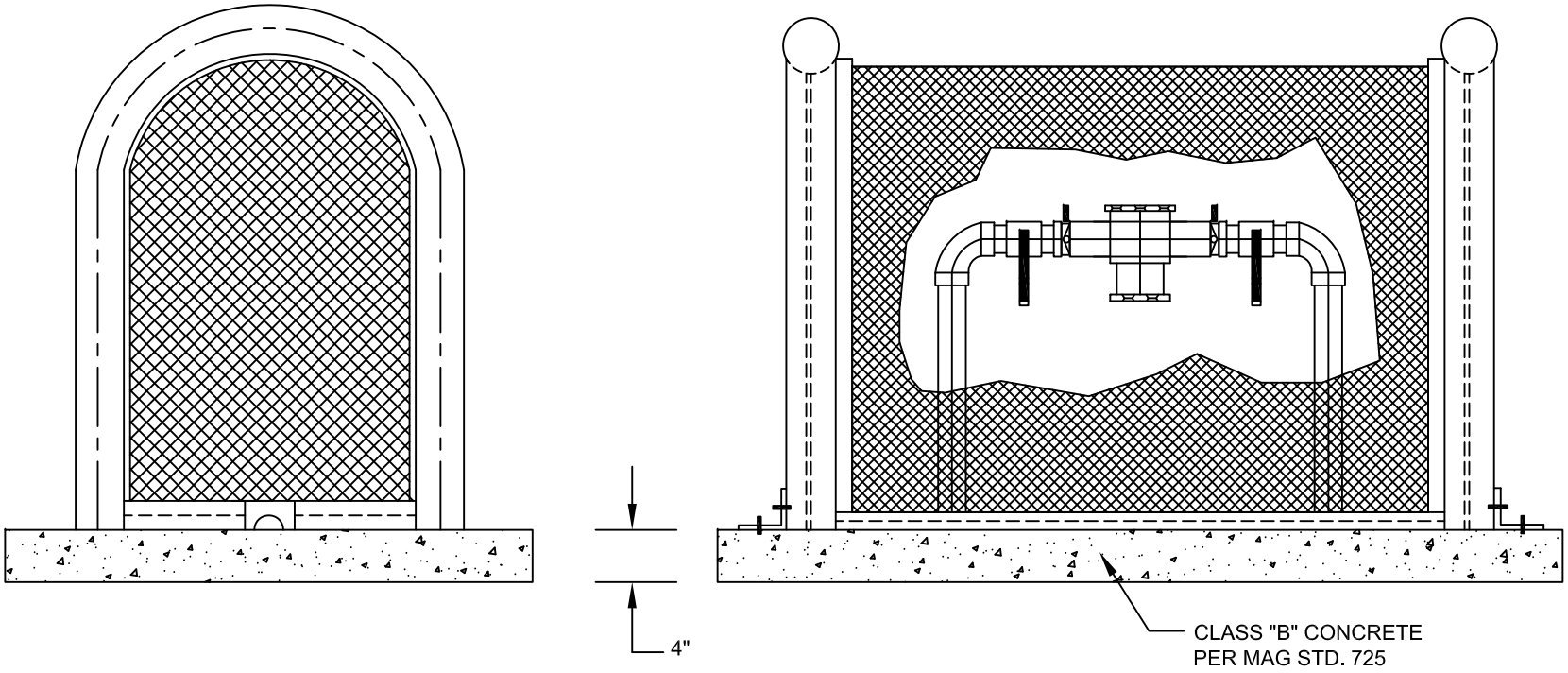
GUARD POST SECTION



GUARD POST FOR BACKFLOW PREVENTION ASSEMBLY

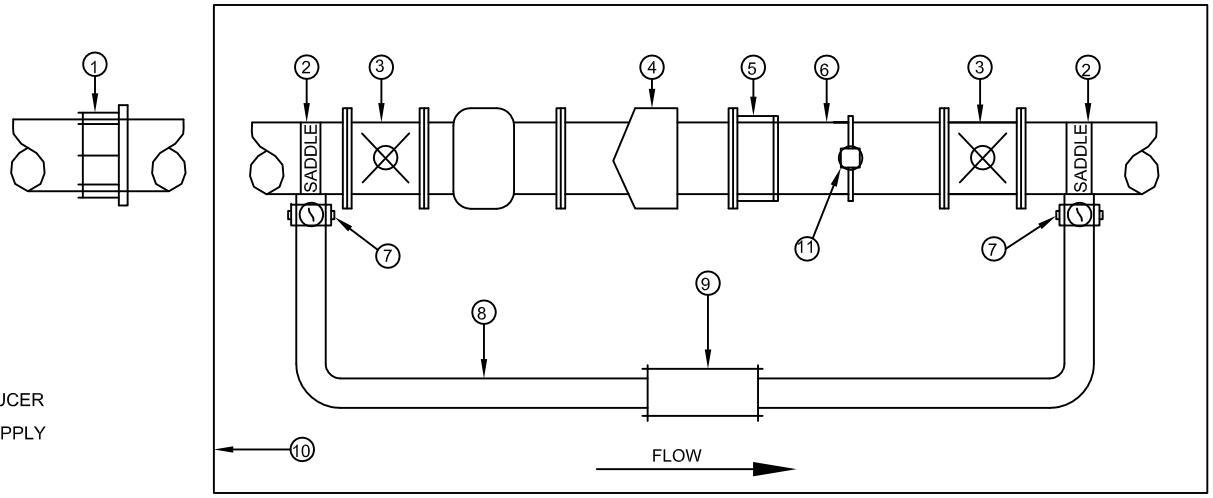
PLAN VIEW

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**GUARD POST FOR BACKFLOW PREVENTION ASSEMBLY**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-672**



1. SET EYEBOLT WITH BOTTOM OF CIRCLE FLUSH WITH CONCRETE BASE, THEN EYEBOLT CANNOT BE TURNED WHEN BRACKET IS IN PLACE.
2. BOLT BRACKETS TO ENCLOSURE ON ENDS OR BOTH SIDES. USE 1/4" x 1 1/4" TAMPER-PROOF BOLTS WITH HEX NUTS AND WASHERS PROVIDED.
3. PAD DIMENSIONS SHALL ALLOW 6" MIN. CLEARANCE FROM ANY DRILLED ANCHOR BOLTS TO EDGE OF CONCRETE PAD.
4. CAGE SHALL BE PAINTED TO MATCH COLOR OF NEAREST WALL OR BE PAINTED GREEN.
5. ALL BFPU'S (DOMESTIC OR LANDSCAPE) SHALL BE CAGED.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**METAL CAGE FOR REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY 2 1/2" OR LESS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-673**



GAURD POSTS PER DETAIL G-672 (IN PAVED AREAS ONLY)

LEGEND

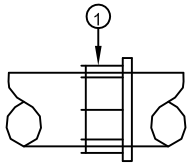
1. ADAPTER, FLANGED TO MECHANICAL JOINT FOR D.I.P. A 4" X 3" REDUCER IS REQUIRED FOR A 3" METER. REDUCER SHALL BE BETWEEN 4" SUPPLY PIPE AND 3" GATE VALVE.
2. D.I.P. SPOOL, 12" FLANGED WITH 2" TAP PER DETAL G-642.
3. R.S. GATE VALVE (MUELLER), FLANGED, WITH HAND WHEEL, LEFT TO OPEN.
4. TURBO METER WITH STRAINER WILL BE SUPPLIED BY CITY'S METER SHOP.
5. FLANGED COUPLING ADAPTER, TO CONNECT PLAIN END SPOOL TO FLANGED METER.
6. D.I.P. SPOOL, 18" PLAIN END TO FLANGED (3", 4", 6").
7. CORPORATION STOP (FORD), 2" (BALL TYPE).
8. 2" HARD (L) COPPER.
9. 2" FLEX COUPLING.
10. PRE-CAST VAULT (UTILITY VAULT CO. OR APPROVED EQUAL).
11. 2" DOUBLE STRAP ALL BRONZE SERVICE SADDLE, WITH BALL TYPE CORPORATION STOP(FORD).
12. USE 12 INCHES OF 1/2" TO 1" RIVER ROCK AS THE FLOORING FOR THE VAULT.

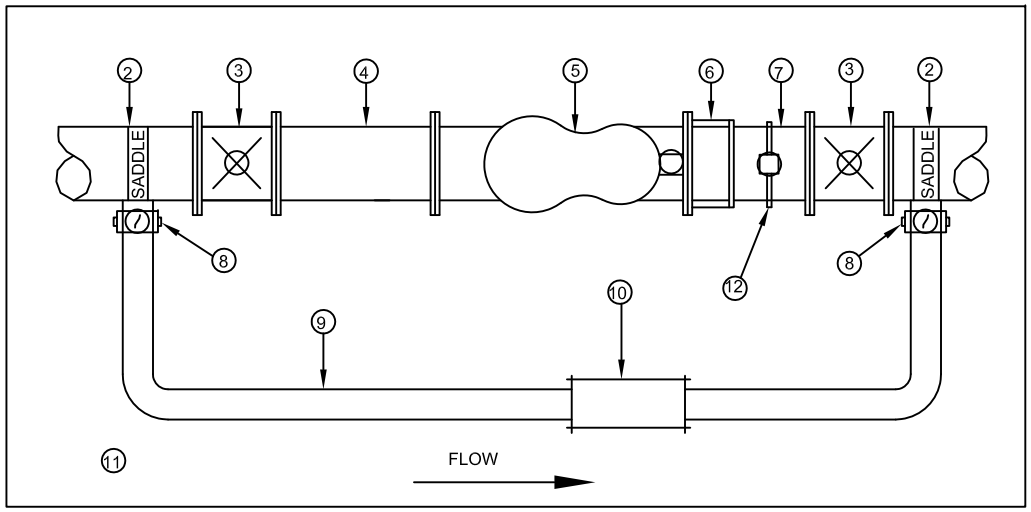
NOTE:

SUPPORTS UNDER ALL VALVES AND METER PER MAG STD. DET. 345-1.

VAULT TOP TO BE EQUIPPED WITH A 36"X 60" TORSION SPRING ASSISTED DOOR. UTILITY VAULT CO. CATALOG NO. 3660, OR APPROVED EQUAL.

CITY OF GLENDALE STANDARD DETAIL		TURBO METER ASSEMBLY 3,4, OR 6 INCH	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-674





LEGEND

1. ADAPTER, FLANGED TO MECHANICAL JOINT FOR D.I.P. A 4' X 3" REDUCER IS REQUIRED FOR A 3" METER. REDUCER SHALL BE BETWEEN 4" SUPPLY PIPE AND 3" GATE VALVE.
2. D.I.P. SPOOL, 12" FLANGED WITH 2" TAP PER DETAIL G-642.
3. R.S. GATE VALVE, (MUELLER), FLANGED, WITH HAND WHEEL, LEFT TO OPEN.
4. SPOOL, 12" FLANGED TO FLANGED.
5. COMPOUND METER WITH STRAINER WILL BE SUPPLIED BY CITY'S METER SHOP.
6. FLANGED COUPLING ADAPTER, TO CONNECT PLAIN END SPOOL TO FLANGED METER.
7. D.I.P. SPOOL, 18" PLAIN END TO FLANGED (3", 4", 6").
8. CORPORATION STOP, (FORD), 2" (BALL TYPE).
9. 2" HARD (L) COPPER.
10. 2" FLEX COUPLING.
11. PRE-CAST VAULT (UTILITY VAULT CO. OR APPROVED EQUAL).
12. 2" DOUBLE STRAP ALL BRONZE SERVICE SADDLE, WITH BALL TYPE CORPORATION STOP (FORD)
13. USE 12 INCHES OF 1/2" TO 1" RIVER ROCK AS THE FLOORING FOR THE VAULT.

GAURD POST PER DETAIL G-672 (IN PAVED AREAS ONLY)

NOTE:

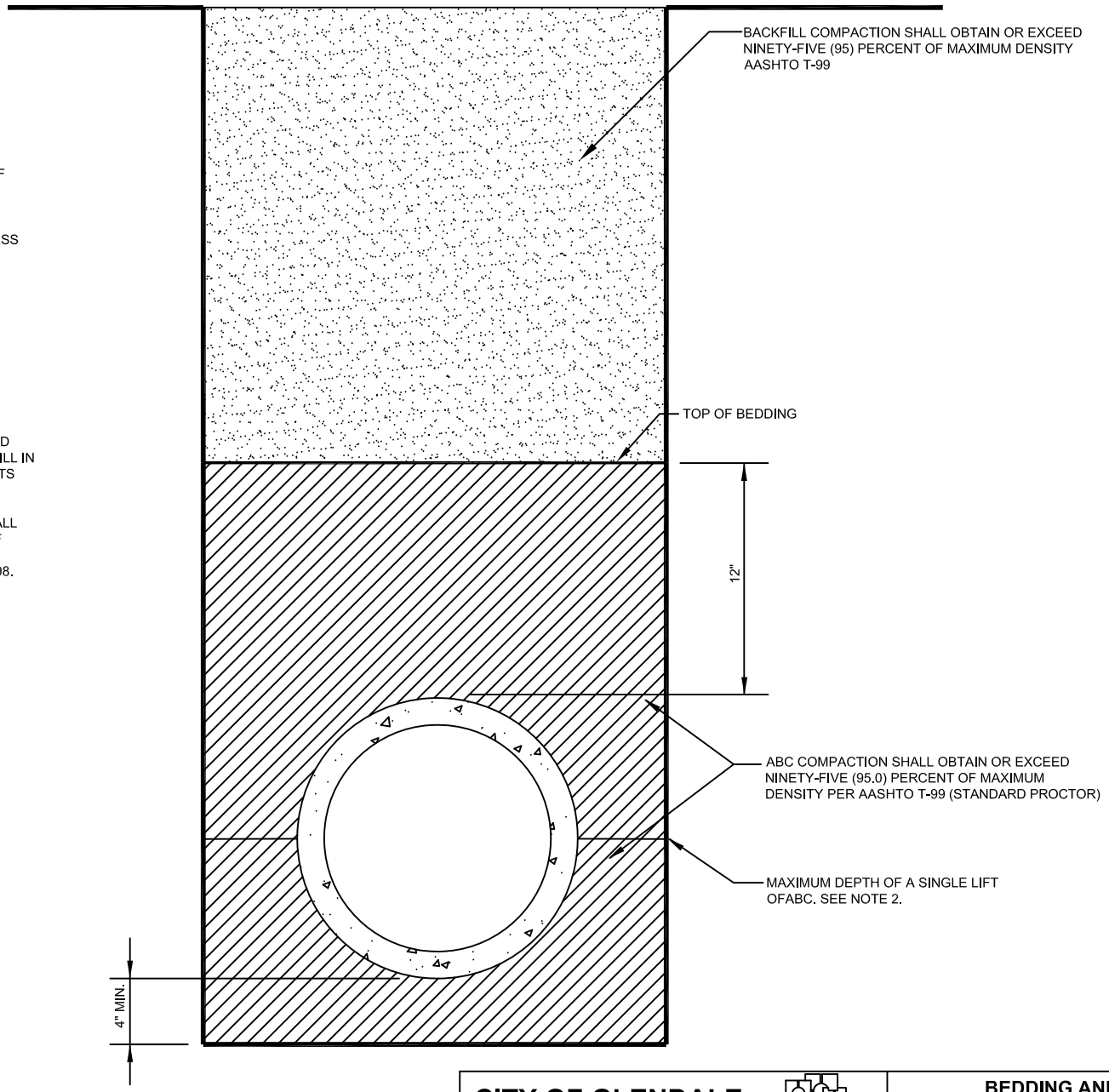
SUPPORTS UNDER ALL VALVES AND METER PER MAG STD. DET. 345-1.

VAULT TOP TO BE EQUIPPED WITH A 36"X 60" TORSION SPRING ASSISTED DOOR. UTILITY VAULT CO. CATALOG NO. 3660, OR APPROVED EQUAL.

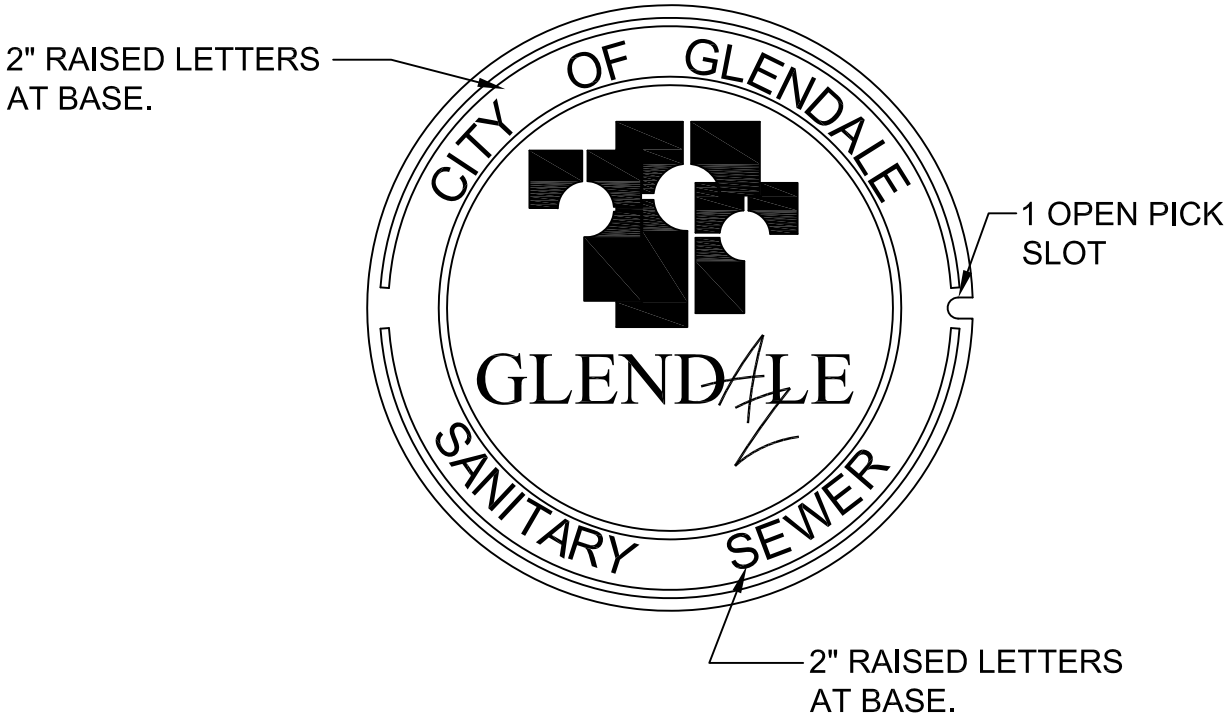
CITY OF GLENDALE STANDARD DETAIL GLENDALE		**COMPOUND METER ASSEMBLY 3, 4, OR 6 INCH**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-676**

NOTES:

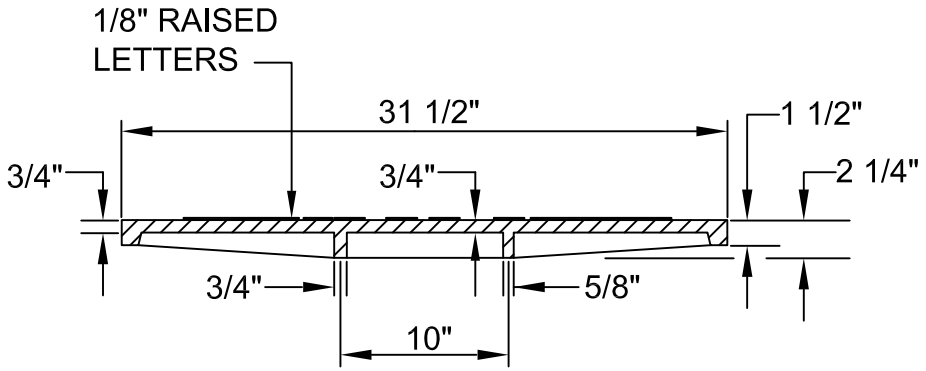
1. ABC FOR PIPES 6" AND LARGER SHALL BE SHAPED TO CONFORM TO THE BOTTOM OF PIPE PRIOR TO PLACEMENT OF THE PIPE
2. ABC TO BE PLACED WITH A MAXIMUM LIFT THICKNESS OF 8" COMPACTED
3. BACKFILL TO BE PLACED WITH A MAXIMUM LIFT THICKNESS OF 12", COMPACTED.
4. ABC SHALL CONFORM TO M.A.G. SEC. 702
5. WATER CONSOLIDATION SHALL NOT BE PERMITTED FOR THE TRENCH BACKFILL IN CITY OF GLENDALE RIGHTS OF WAY OR EASEMENTS.
6. MOISTURE CONTENT SHALL BETWEEN +2% TO -4% OF OPTIMUM MOISTURE CONTENT PER ASTM D-698.



CITY OF GLENDALE STANDARD DETAIL GLENDALE		**BEDDING AND BACKFILL FOR UNDERGROUND FACILITIES IN CITY RIGHT-OF-WAY AND EASEMENTS**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-690**

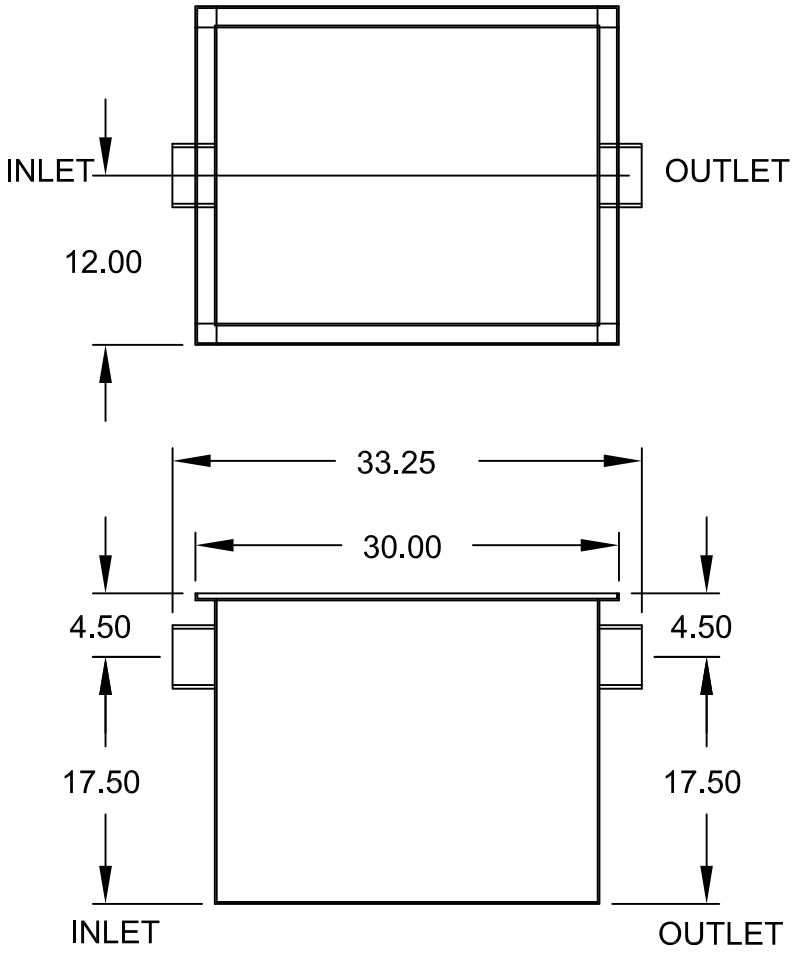


TOP VIEW



SECTION OF COVER

CITY OF GLENDALE STANDARD DETAIL		MANHOLE COVER DETAIL	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-704



OPTIONAL FEATURES (ADDITIONAL COST)

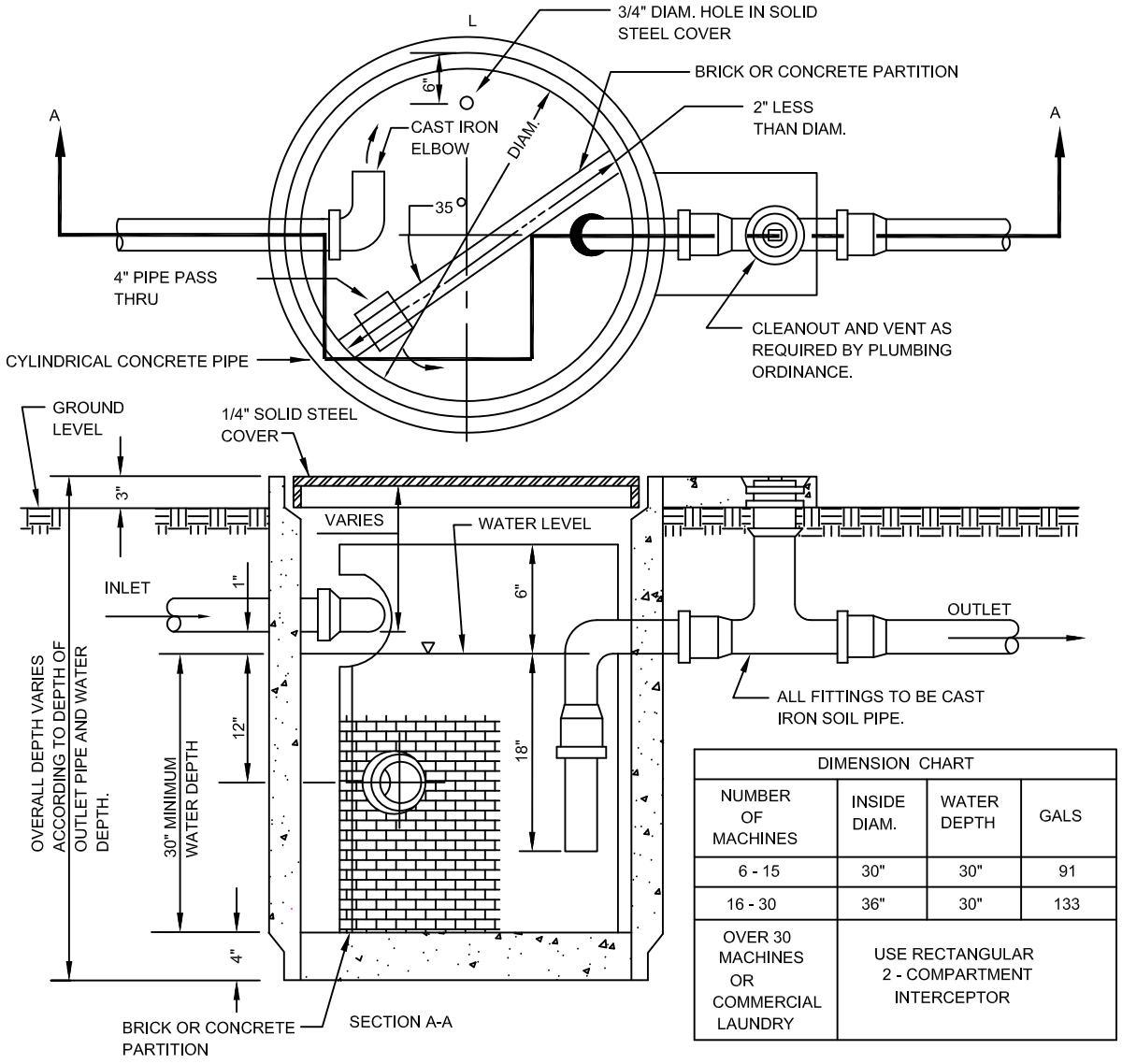
- ☐ ANCHOR FLANGE
- ☐ EPOXY COATING
- ☐ STAINLESS STEEL CONSTRUCTION
- ☐ INTEGRAL EXTENSION
- ☐ INLET & OUTLET SIZE
- ☐ ALUMINUM COVER
- ☐ THREADED CONNECTIONS

Specifications

Rockford Model RP-50 all welded steel interceptor, for on the floor or flush with the floor installation, 50 g.p.m. intermittent flow, 100 lbs. grease capacity, 4.00" no-hub inlet and outlet connections and flow control device, removable 3/16" nonskid diamond treadplate cover for on steel flat head screws, heavy duty leak-proof gasket, enamel coating inside and outside. Unit comes standard with internal trap seal and air bypass.

Optional features (Additional cost) listed above

CITY OF GLENDALE STANDARD DETAIL		GREASE INTERCEPTOR RP-50	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-705



DIMENSION CHART			
NUMBER OF MACHINES	INSIDE DIAM.	WATER DEPTH	GALS
6 - 15	30"	30"	91
16 - 30	36"	30"	133
OVER 30 MACHINES OR COMMERCIAL LAUNDRY	USE RECTANGULAR 2 - COMPARTMENT INTERCEPTOR		

NOTE:

THE APPROVAL OF THE CITY PRETREATMENT OFFICER MUST BE OBTAINED BEFORE INSTALLATION. IF INSTALLED OUTSIDE BUILDING, ELEVATE THE SIDE WALLS ABOVE THE SURROUNDING GROUND SURFACE TO EXCLUDE SURFACE WATER. IF LOCATED IN A COVERED AREA WHICH IS PROPERLY PROTECTED AGAINST THE ENTRANCE OF RAIN WATER, THE TOP OF THE INTERCEPTOR MAY BE LEVEL WITH FLOOR. FOR INSTALLATION INSIDE A BUILDING, INTERCEPTOR SHALL CONFORM WITH BUILDING AND PLUMBING CODES.

CITY OF GLENDALE STANDARD DETAIL GLENDALE

LAUNDRY WASTE INTERCEPTOR

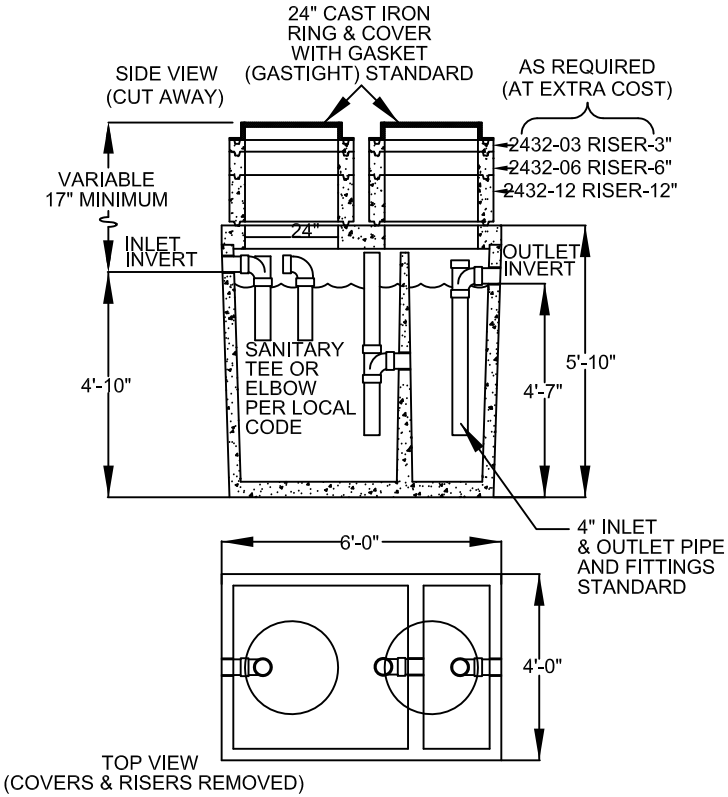
APPROVED BY: CITY ENGINEER David D. Beard, P.E.

DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO. **G-710**

500 GALLON
SAND-OIL INTERCEPTOR



NOTES:

1. LIQUID CAPACITY: 500 GALLONS.
2. BOX DESIGN LOAD: H-20 TRAFFIC FROM 1' TO 6' OF SOIL COVER.
3. CONTRACTOR TO SUPPLY & INSTALL ALL PIPING AND SANITARY TEES. 4 CLEAN OUTS FOR CLEANING TOWARD TRAP AND FOR CLEANING AWAY FROM THE TRAP ON BOTH THE INLET AND OUTLET.

TANK EXCAVATION SIZE

TANK SIZE	LENGTH	WIDTH	DEPTH FROM UNDER PLUMBING
350 GAL.	6'	4'	42"
500 GAL.	7'	4' 8"	42"

CITY OF GLENDALE STANDARD DETAIL GLENDALE

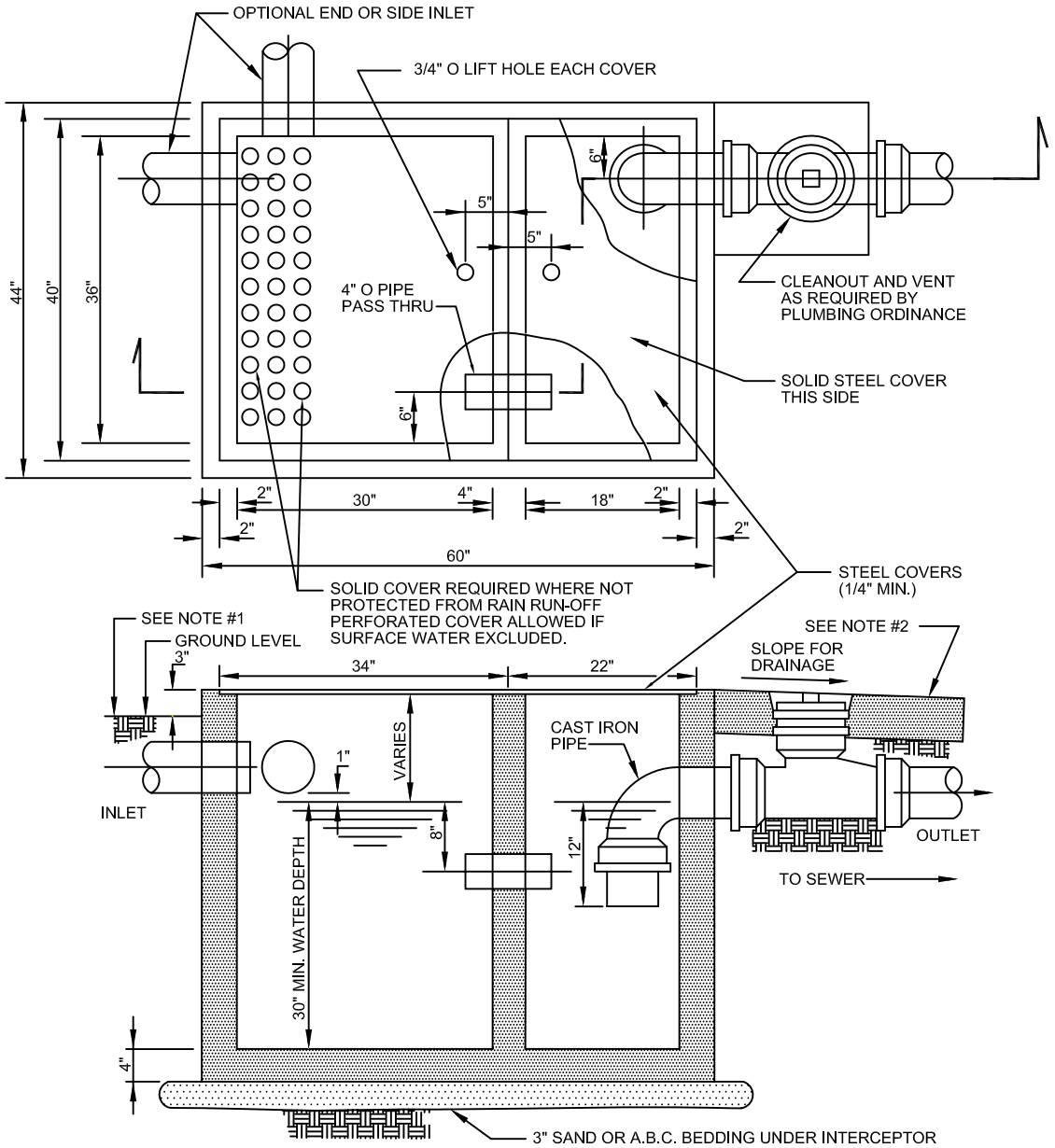
SAND AND OIL INTERCEPTOR

APPROVED BY: CITY ENGINEER David D. Beard, P.E.

DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO. **G-720**



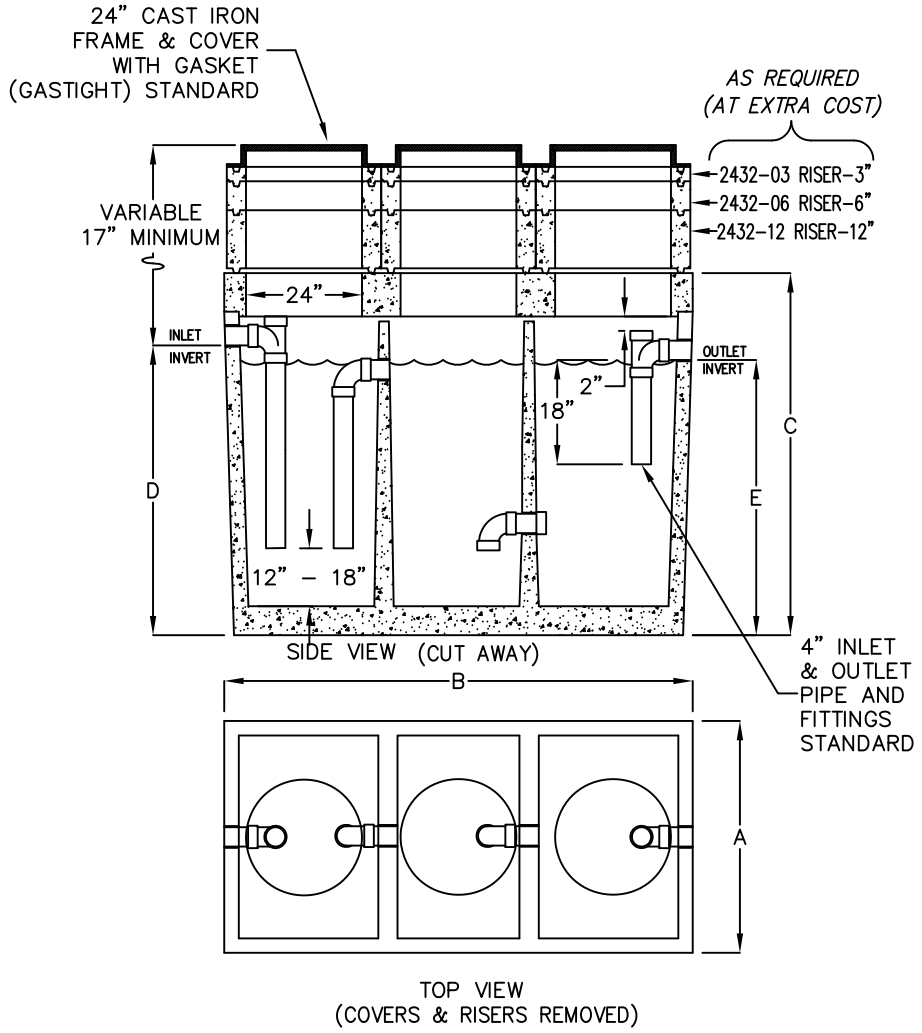
NOTES:

1. IF LOCATED OUTSIDE BUILDING, ELEVATE SIDEWALLS ABOVE SURROUNDING GROUND SURFACE, AS SHOWN ABOVE, TO EXCLUDE SURFACE WATERS.

2. IF INSTALLED IN A SURFACED AREA, SLOPE SURFACE TO PROTECT AGAINST ENTRANCE OF SURFACE RUN-OFF WATER. IF SO PROTECTED, THE INTERCEPTOR MAY BE INSTALLED LEVEL WITH FLOOR AS SHOWN.

3. DIMENSIONS SHOWN ARE THE MINIMUM ALLOWABLE FOR THIS TYPE OF WASTE INTERCEPTOR.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**SAND AND OIL INTERCEPTOR FOR A SERVICE STATION**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-722**



MODEL NUMBER	LIQUID CAPACITY GALLONS	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	DIMENSION E	MINIMUM EXCAVATION WIDTH	MINIMUM EXCAVATION LENGTH
CL750ECE-G	750	4'-0"	8'-1"	6'-3"	5'-0"	4'-9"	5'-0"	9'-1"
CL1000ECE-G	1000	5'-1"	8'-2"	6'-3"	5'-0"	4'-9"	6'-1"	9'-2"
CL1200ECE-G	1200	5'-9"	8'-6"	6'-6"	5'-0"	4'-9"	6'-9"	9'-6"
CL1500ECE-G	1500	5'-7"	10'-8"	6'-3"	5'-0"	4'-9"	6'-7"	11'-8"

BOX DESIGN LOAD: H-20 TRAFFIC.

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

CITY OF GLENDALE STANDARD DETAIL GLENDALE

GREASE INTERCEPTOR 750-1500 GALLON

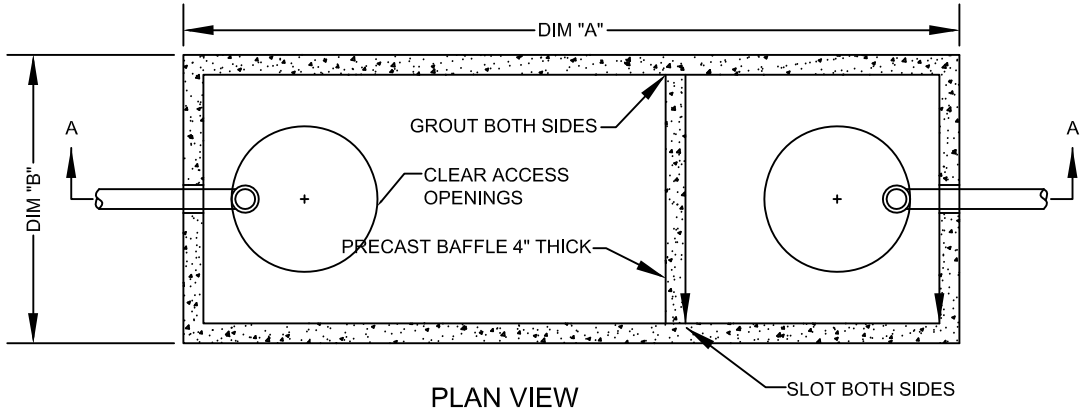
APPROVED BY: CITY ENGINEER David D. Beard, P.E.

DATE : 9/15/2014

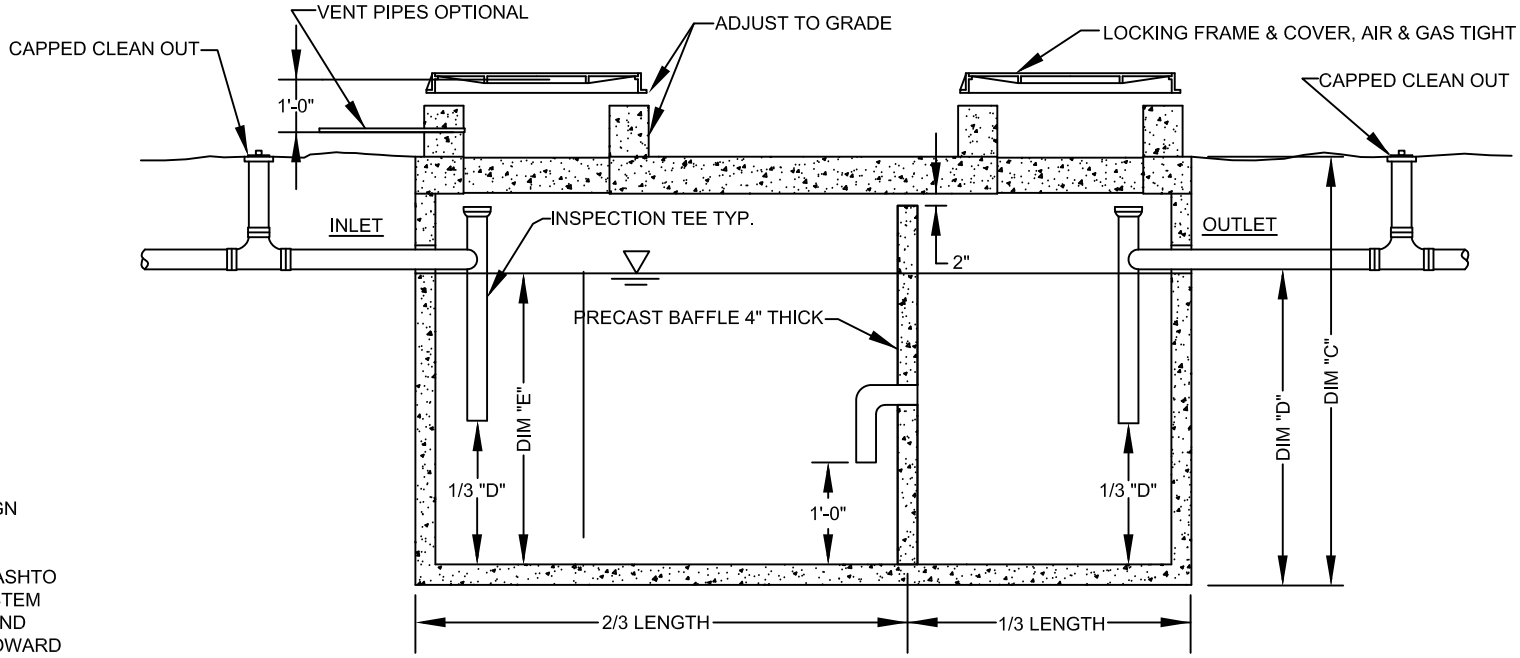
REVISED: MARCH 2014

DETAIL NO. **G-723**

SIZING CHART					
GALLON CAPACITY	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
600	7'-0"	4'-8"	7'-0"	3'-6"	3'-2"
750	7'-0"	4'-8"	7'-0"	4'-3"	3'-11"
1000	9'-0"	5'-0"	7'-2"	4'-2"	3'-10"
1250	9'-0"	5'-0"	7'-2"	5'-2"	4'-10"
1500	11'-2"	5'-8"	7'-2"	4'-4"	4'-0"
1750	11'-2"	5'-8"	7'-2"	4'-11"	4'-7"
2000	12'-8"	6'-8"	8'-0"	4'-7"	3'-10"
2500	12'-8"	6'-8"	8'-0"	5'-6"	4'-9"



PLAN VIEW



SECTION AA

NOTES:

1. CONCRETE: 28 DAY $f'c$=4500 P.S.I.
2. REBAR: ASTM A615 GRADE 60
3. MESH: ASTM A-185 GRADE 65
4. DESIGN: AC1318-83 BUILDING CODE
   ASTM C-857 MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES
5. LOADS: H-20 TRUCK WHEEL W/30% IMPACT PER AASHTO
6. FILL W/CLEAN WATER PRIOR TO START UP OF SYSTEM
7. CONTRACTOR TO SUPPLY & INSTALL ALL PIPING AND SANITARY TEES. 4 CLEAN OUTS FOR CLEANING TOWARD TRAP AND FOR CLEANING AWAY FROM TRAP ON BOTH THE INLET AND OUTLET / ALT. DUAL SWEEP CLEAN OUTS
8. GRAY WATER ONLY. BLACK WATER SHALL BE CARRIED BY SEPARATE SEWER.

CITY OF GLENDALE STANDARD DETAIL — GLENDALE

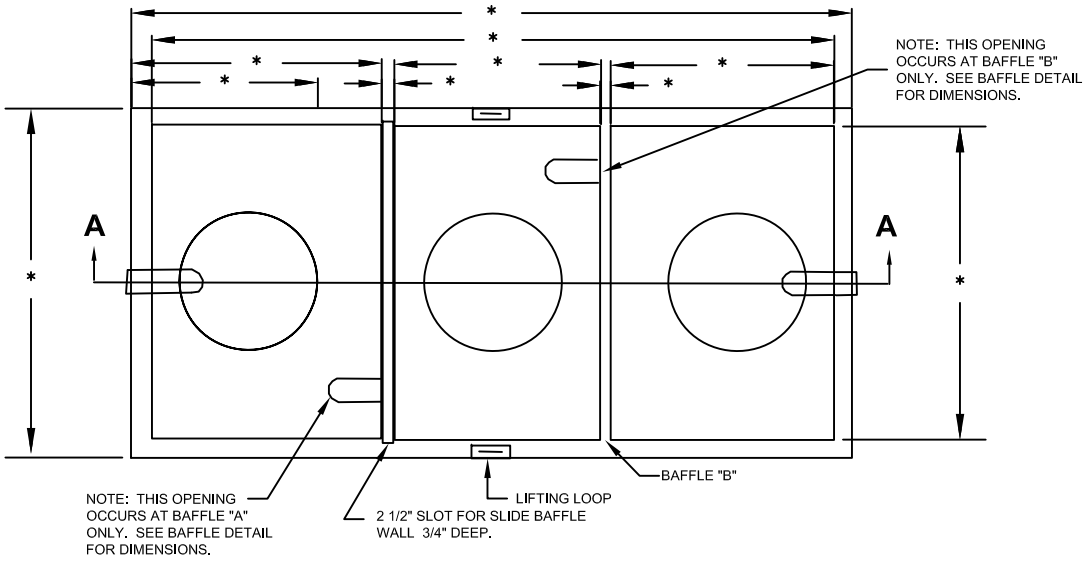
GREASE/OIL INTERCEPTOR (FOOD ESTABLISHMENTS)

APPROVED BY: CITY ENGINEER — David D. Beard, P.E.

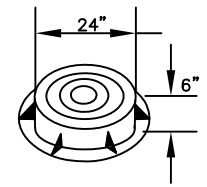
DATE : 9/15/2014

REVISED: MARCH 2014

DETAIL NO. **G-724**

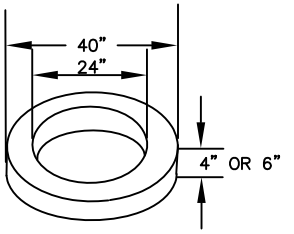


PLAN VIEW



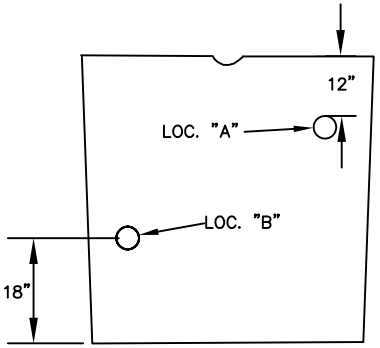
TRAFFIC RING & COVER

LOCKING FRAME & COVER, AIR & GAS TIGHT



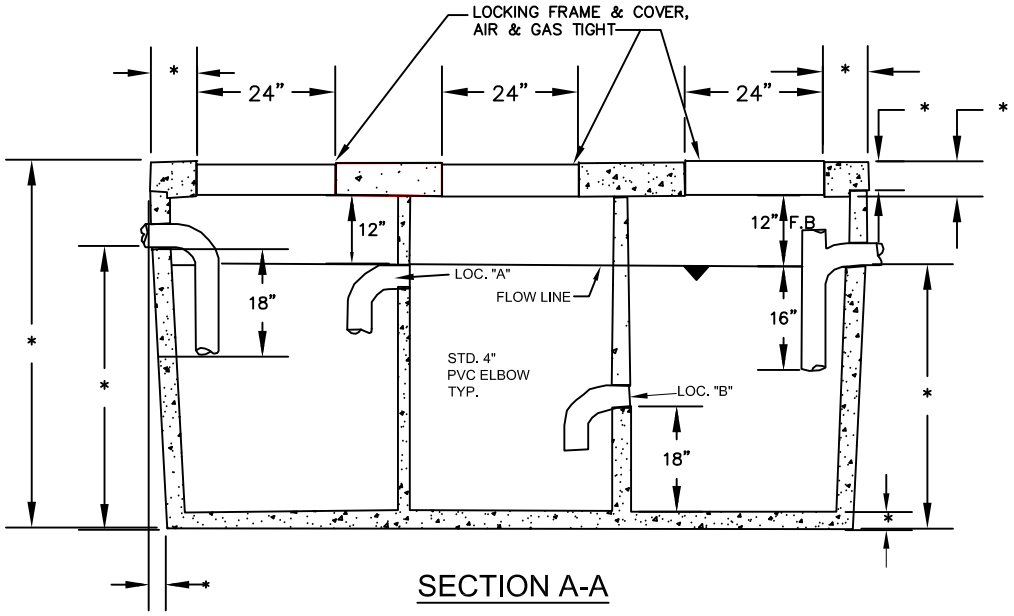
CONCRETE RISER RING

OPTIONAL



BAFFLE

* – DIMENSIONS VARY BY MANUFACTURER.
REFER TO MANUFACTURER'S SPECIFICATIONS FOR DETAILS.



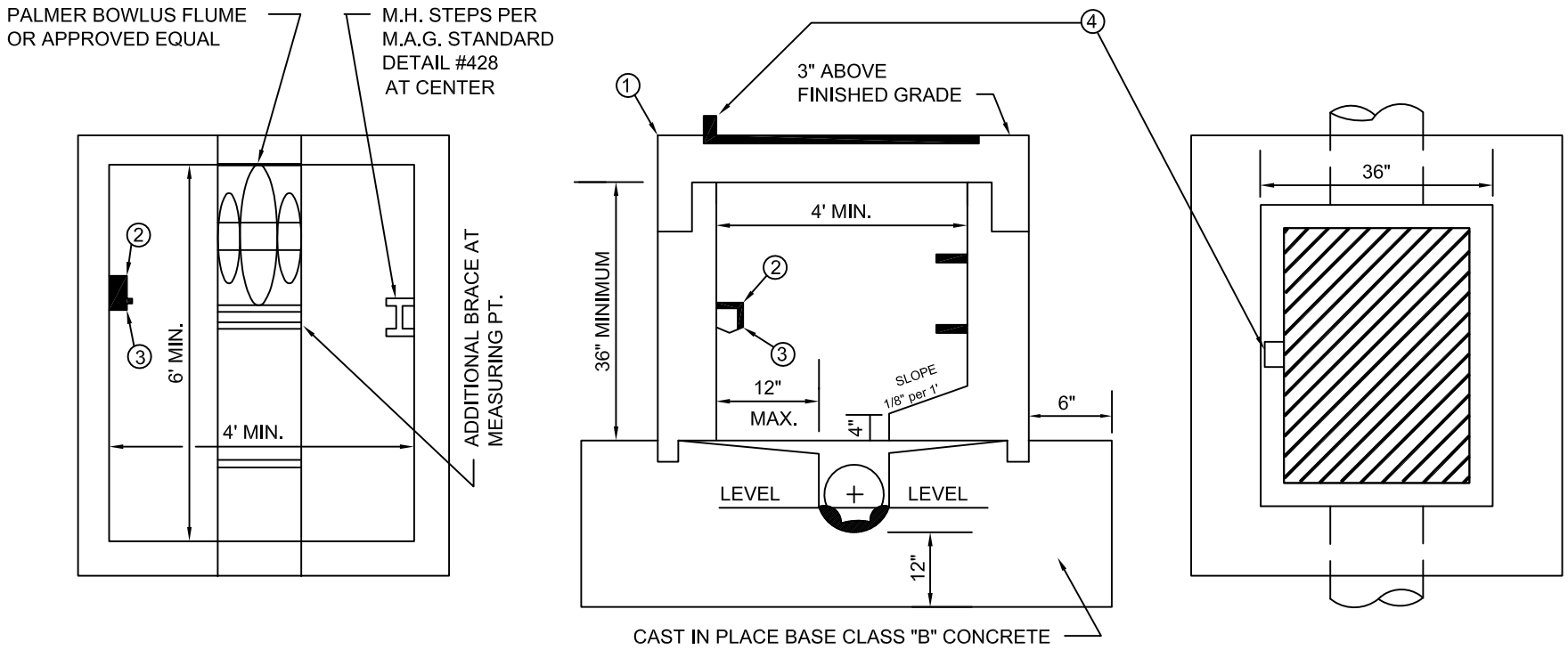
SECTION A-A

* – DIMENSIONS VARY BY MANUFACTURER. REFER TO MANUFACTURER'S SPECIFICATIONS FOR DETAILS.

NOTES:

1) NOT APPROVED FOR USE INSIDE AN ENCLOSED BUILDING-MUST BE MINIMUM OF 2' OUTSIDE OF BUILDING FOUNDATION.
2) THE APPROVAL OF THE PRETREATMENT OFFICER MUST BE OBTAINED BEFORE INSTALLATION.
3) ELEVATE THE TOP OF THE INTERCEPTOR 3" ABOVE THE SURROUNDING GROUND SURFACE, TO EXCLUDE SURFACE WATER.
4) CONTRACTOR TO SUPPLY & INSTALL ALL PIPING AND SANITARY TEES. 4 CLEAN OUTS FOR CLEANING TOWARD TRAP AND FOR CLEANING AWAY FROM TRAP ON BOTH THE INLET AND OUTLET / ALT DUAL SWEEP CLEAN OUTS.
5) CONCRETE: 28 DAY *f'*c=4500 P.S.I.
6) REBAR: ASTM A615 GRADE 60
7) MESH: ASTM A-185 GRADE 65
8) DESIGN: AC1318-83 BUILDING CODE
   ASTM C-857 MINIMUM STRUCTURAL DESIGN
   LOADING FOR UNDERGROUND PRECAST
   CONCRETE UTILITY STRUCTURES
9) LOADS: H-20 TRUCK WHEEL W/30% IMPACT PER AASHTO

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**THREE CHAMBER INDUSTRIAL WASTE INTERCEPTOR**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-725**



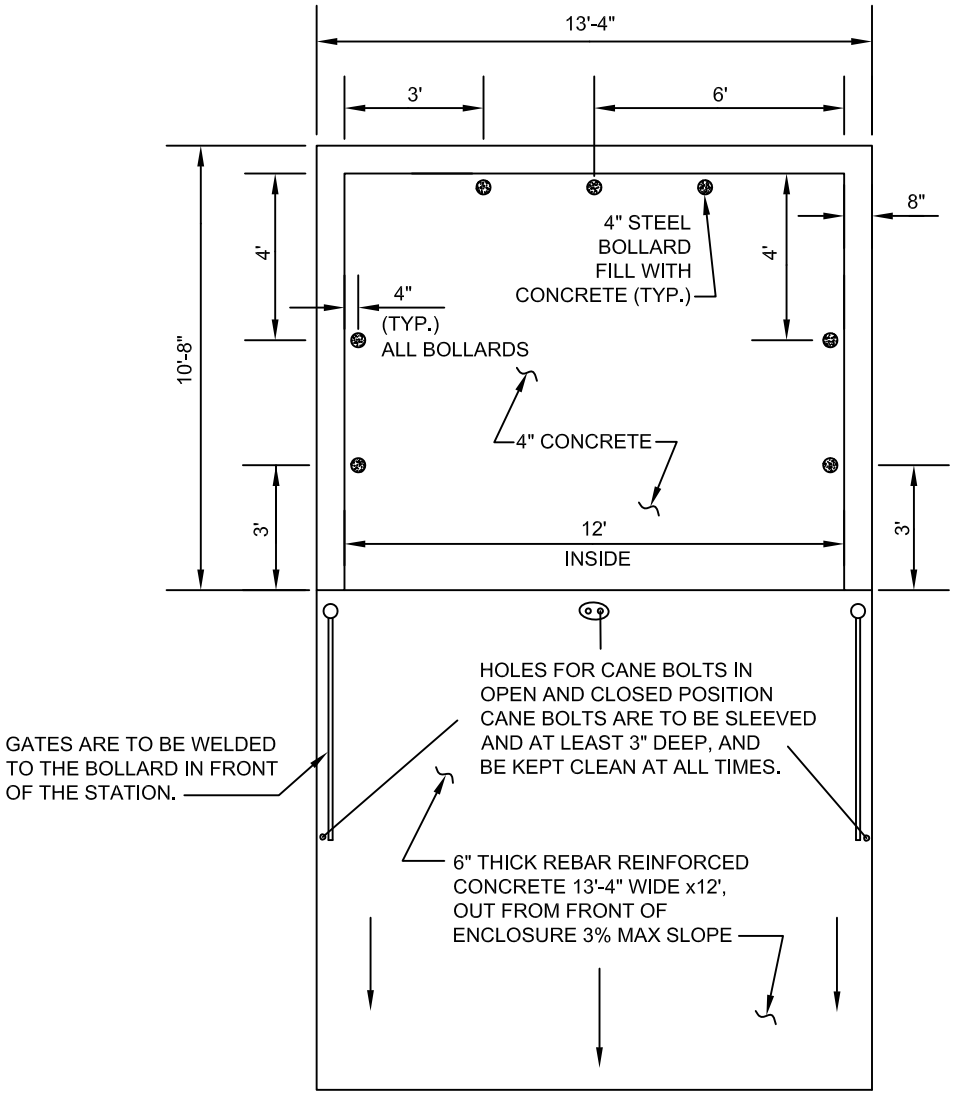
NOTES:

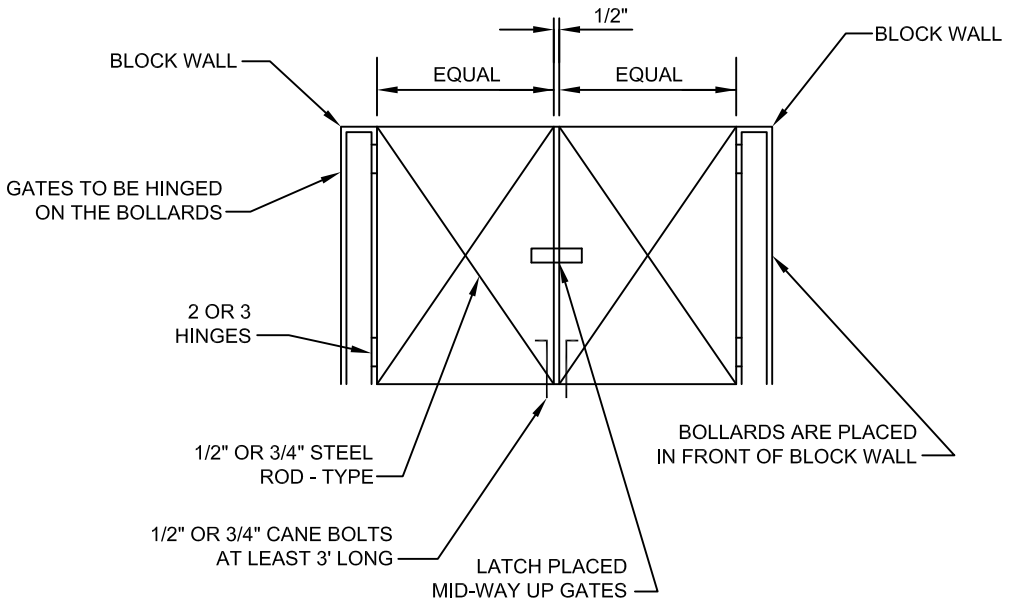
1. MINIMUM INSIDE DIMENSIONS SHALL BE 4' X 6', WITH A MINIMUM INSIDE HEIGHT OF 36" FROM TOP OF FLUME. ANY ALTERATIONS TO THESE REQUIREMENTS WILL BE REVIEWED ON A CASE BY CASE BASIS BY THE DIVISION.
2. ACCESS TO VAULT MUST BE A BILCO STYLE DOOR WITH A FACTORY INSTALLED LOCKING MECHANISM AND A MIMINUM INSIDE OPENING DIAMETER OF 29". LOAD SPECIFICATIONS OF DOOR REVIEWED DEPENDING ON LOCATION OF THE VAULT.
3. VAULT SHALL BE CONSTRUCTED ON A STRAIGHT RUN OF BUILDINGS SEWER, WITH 24 HOUR ACCESSIBILITY AND LOCATED ON THE OWNERS PROPERTY AS CLOSE AS POSSIBLE TO THE PUBLIC RIGHT OF WAY.
4. THE PALMER BOWLUS FLUME OR APPROVED EQUAL, SHALL BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS.
5. TOP OF VAULT SHALL BE A MINIMUM 3", AND A MAXIMUM OF 24" ABOVE FINISHED GRADE.
6. VAULT SHALL BE SUPPLIED WITH 110 VAC IN AN EXPLOSION PROOF BOX (INSTALLED TO CODE).
7. INDUSTRY MAY BE REQUIRED TO INSTALL FLOW MONITORING EQUIPMENT APPROVED BY THE DIVISION. A JUNCTION BOX SHALL BE PROVIDED IN THE VAULT WITH AN AMPHENOL CONNECTOR 973102A14s6p AND CAP #9760-14.

MATERIALS LIST

1. Precast concrete vault and cover.
2. 110 VAC junction box (explosion proof)
3. Junction box with Amphenol connector for 4-20MA output or pulse output.
4. Lid must be equipped with factory installed locking mechanism.

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**CONTROL SAMPLING VAULT**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-740**

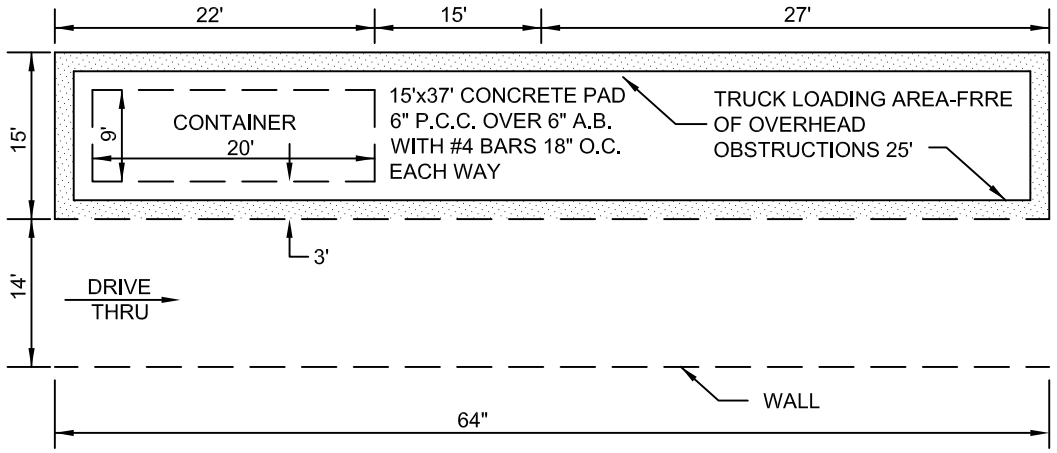




NOTES:

1. THE CITY OF GLENDALE SANITATION DIVISION, PER CITY ORDINANCE, WILL PROVIDE REFUSE CONTAINERS FOR ALL SINGLE FAMILY AND MULTI-FAMILY DEVELOPMENTS WITHIN THE CITY LIMITS OF GLENDALE. BUSINESS AND INDUSTRIAL DEVELOPMENTS HAVE A CHOICE OF BEING SERVED BY THE CITY OR A PRIVATE REFUSE DISPOSAL COMPANY.
2. MULTIPLE REFUSE CONTAINERS MUST BE PLACED ON THE RIGHT SIDE OF THE DRIVE IN RELATION TO THE TRAFFIC FLOW SO COLLECTION TRUCKS MAY BE ROUTED THROUGH THE SITE IN ONE DIRECTION.
3. ENCLOSURES IN INDUSTRIAL AREAS SHALL BE PLACED IN THE BACK OF THE LOT IN LINE WITH THE DRIVE THRU SO THE DRIVER CAN HAVE A DIRECT APPROACH TO THE REFUSE BIN, SERVICE IT, AND EXIT THE FACILITY.
4. THE ENCLOSURE SHOULD NOT BE PLACED AT THE END OF A DEAD END STREET UNLESS THERE IS A TURNING RADIUS OF 52.5 FEET.
5. THE ENCLOSURE SHALL BE FREE OF ANY OVERHEAD OBSTRUCTIONS WHICH MAY INTERFERE IN THE SERVICING OF THE CONTAINER.
6. GATES ARE REQUIRED ON ALL ENCLOSURES FOR COMMERCIAL PROJECTS IN LOCATIONS VISIBLE TO THE PUBLIC. THE GATES MUST CLEAR THE DRIVEWAY AND BE ABLE TO BE LOCKED IN AN OPEN POSITION AT OR PAST 90 DEGREES SO AS NOT TO INTERFERE WITH THE OPERATION OF THE COLLECTION TRUCK.

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	REFUSE COLLECTION ENCLOSURE DESIGN AND CONSTRUCTION	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-934



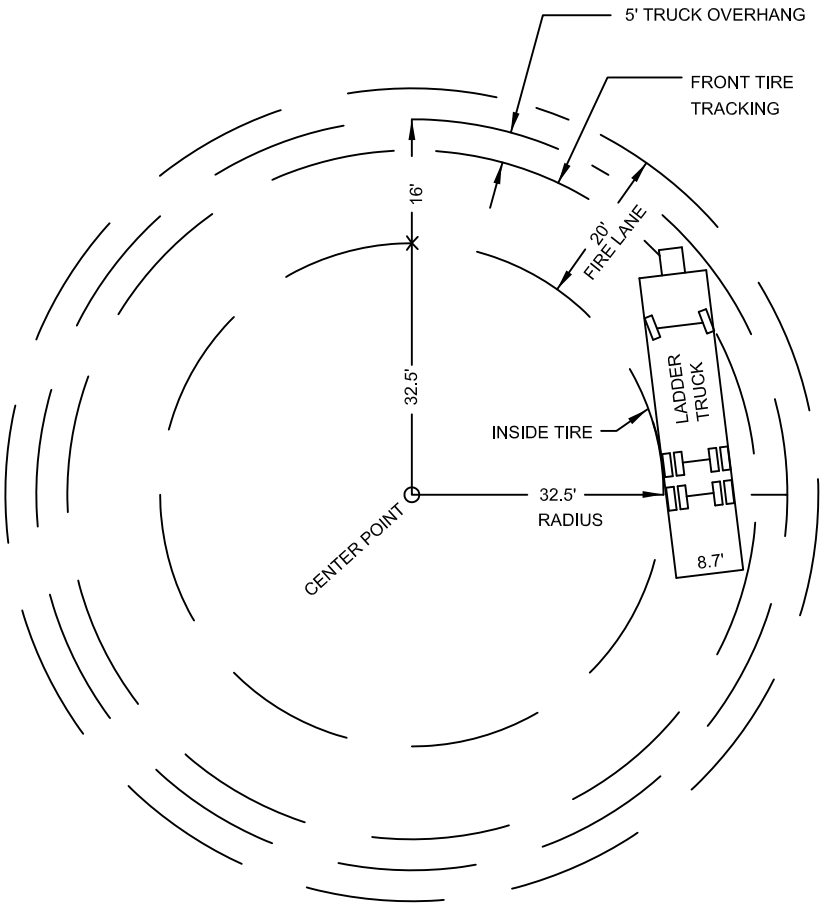
CRITERIA FOR 12, 20, 30 AND 40 YARD ROLL-OFF CONTAINERS

NOTES:

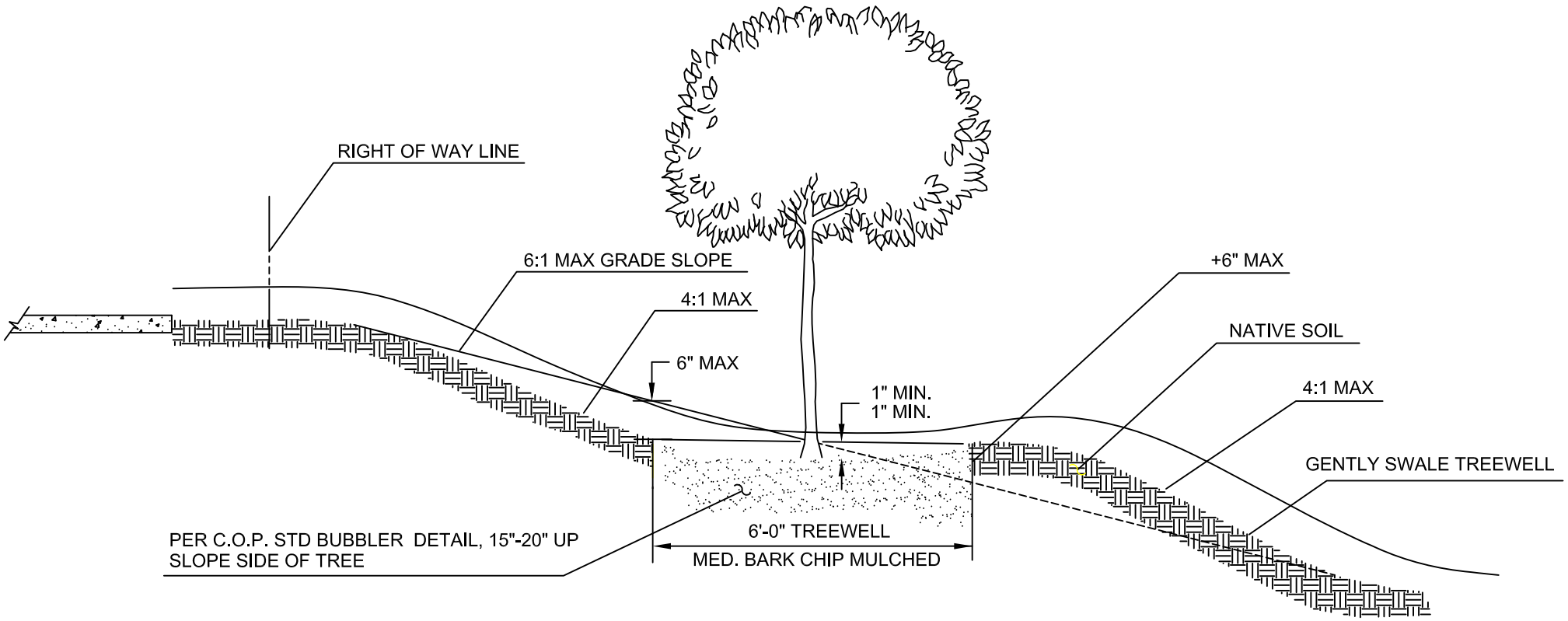
1. THE CITY OF GLENDALE SANITATION DIVISION, PER CITY ORDINANCE, WILL PROVIDE REFUSE CONTAINERS FOR ALL SINGLE FAMILY AND MULTI-FAMILY DEVELOPMENTS WITHIN THE CITY LIMITS OF GLENDALE. BUSINESSES AND INDUSTRIAL DEVELOPMENTS HAVE A CHOICE OF BEING SERVED BY THE CITY OR A PRIVATE REFUSE DISPOSAL COMPANY.
2. TEMPORARY REFUSE CONTAINERS DO NOT REQUIRE A CONCRETE PAD.
3. GATES ARE REQUIRED ON ALL ENCLOSURES FOR COMMERCIAL AND INDUSTRIAL PROJECTS IN LOCATIONS VISIBLE TO THE PUBLIC
4. TRUCK LOADING AREA SHALL NOT BE IMPAIRED IN ANY WAY.
5. MINIMUM VERTICAL CLEARANCE OVER ACCESS AREA SHALL BE AT LEAST 25'. DRIVE THROUGH ACCESS SHALL BE PROVIDED.
6. SEE ALSO CHAPTER 9.

CITY OF GLENDALE STANDARD DETAIL		REFUSE COLLECTION STATION, DESIGN, LOCATION AND CONSTRUCTION (ROLL OFF)	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-936

NOTE:
THESE REQUIREMENTS ALSO APPLY TO CITY OF GLENDALE SANITATION TRUCKS AND HYDRO VACTOR TRUCKS



CITY OF GLENDALE STANDARD DETAIL		360° TURNING REQUIREMENTS FOR FIRE LADDER TRUCKS	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-954



TREE SLOPE PLANTING

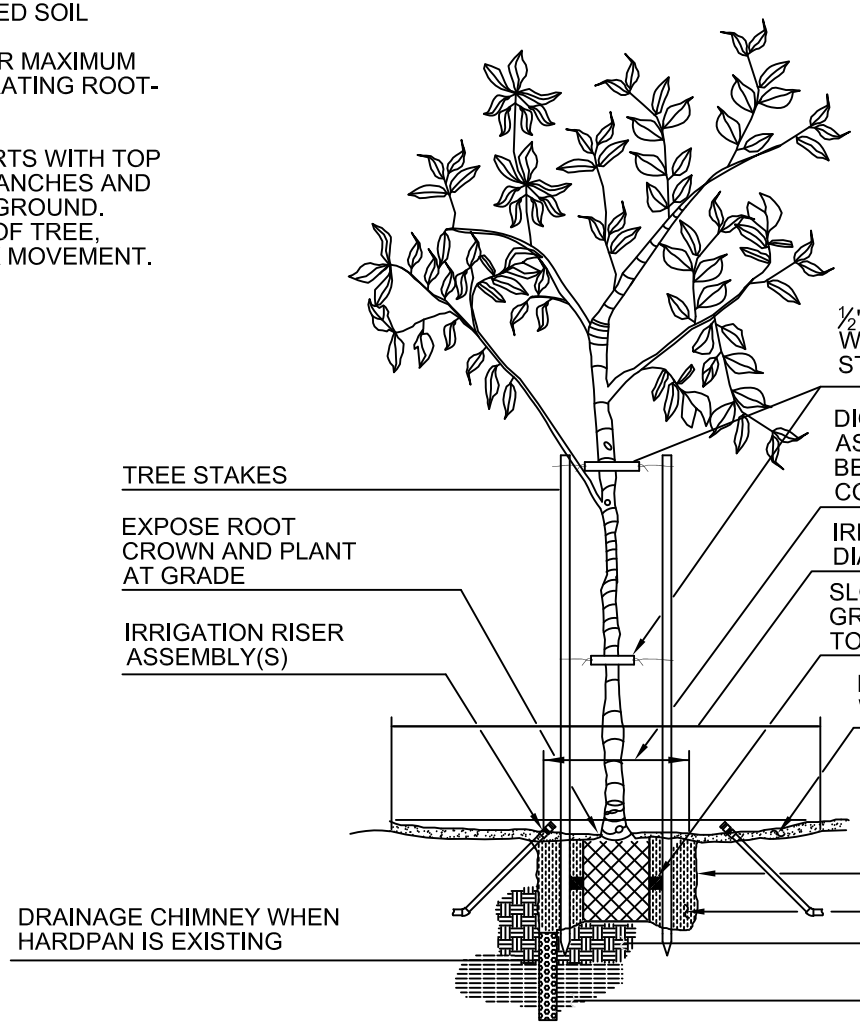
CITY OF GLENDALE STANDARD DETAIL		TREE SLOPE PLANTING	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1007

NOTES

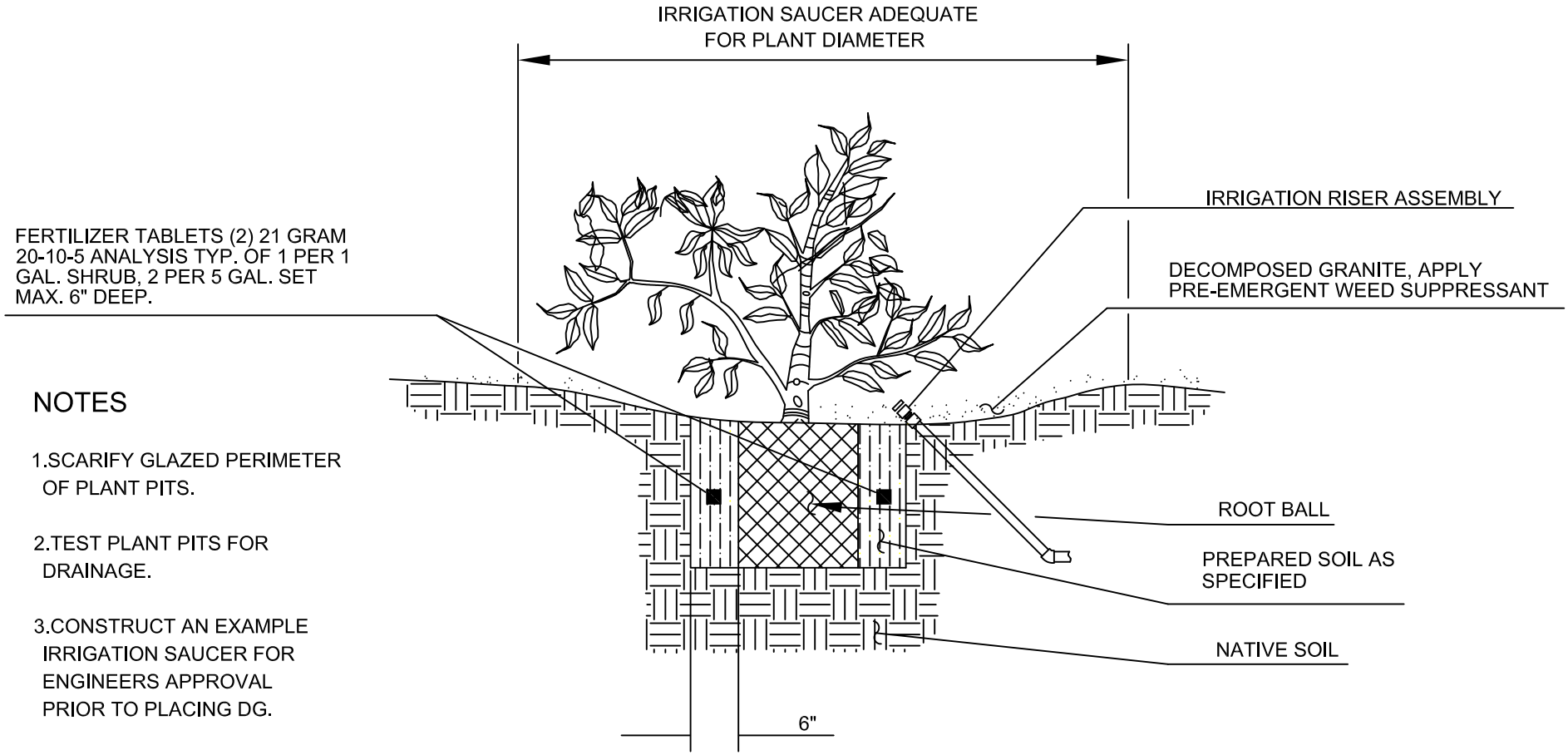
1.2-2" DIAMETER TREE STAKES DRIVEN INTO UNDISTURBED SOIL

2.PLACE TREE STAKES FOR MAXIMUM SUPPORT, AVOID PENETRATING ROOT-BALL.

3.PLACE TREE TIE SUPPORTS WITH TOP TIE ABOVE SCAFFOLD BRANCHES AND SECOND TIE MIDWAY TO GROUND. AVOID RIGID RESTRAINT OF TREE, ALLOW FOR SOME TRUNK MOVEMENT.



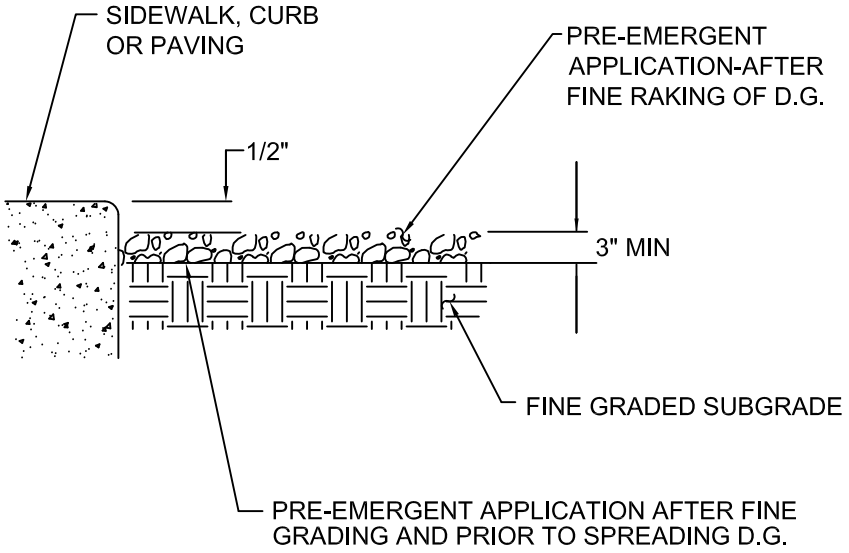
CITY OF GLENDALE STANDARD DETAIL	GLENDALE	TREE PLANTING & STAKING	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1008



NOTES

1. SCARIFY GLAZED PERIMETER OF PLANT PITS.
2. TEST PLANT PITS FOR DRAINAGE.
3. CONSTRUCT AN EXAMPLE IRRIGATION SAUCER FOR ENGINEERS APPROVAL PRIOR TO PLACING DG.

CITY OF GLENDALE STANDARD DETAIL		SHRUB PLANTING	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1009



NOTES

1. DECOMPOSED GRANITE FINISH GRADE TO BE RAKED SMOOTH. DG FINISH GRADE SHALL BE 1/2" BELOW ALL ADJACENT PAVING/CURBS.

2. SUBMIT COLOR SAMPLE OF DECOMPOSED GRANITE FOR APPROVAL BY LANDSCAPE ARCHITECT.

3. SUBMIT CERTIFIED PESTICIDE APPLICATOR'S LICENSE PRIOR TO CONSTRUCTION. SUBMIT PRODUCT LABEL FOR APPROVAL.

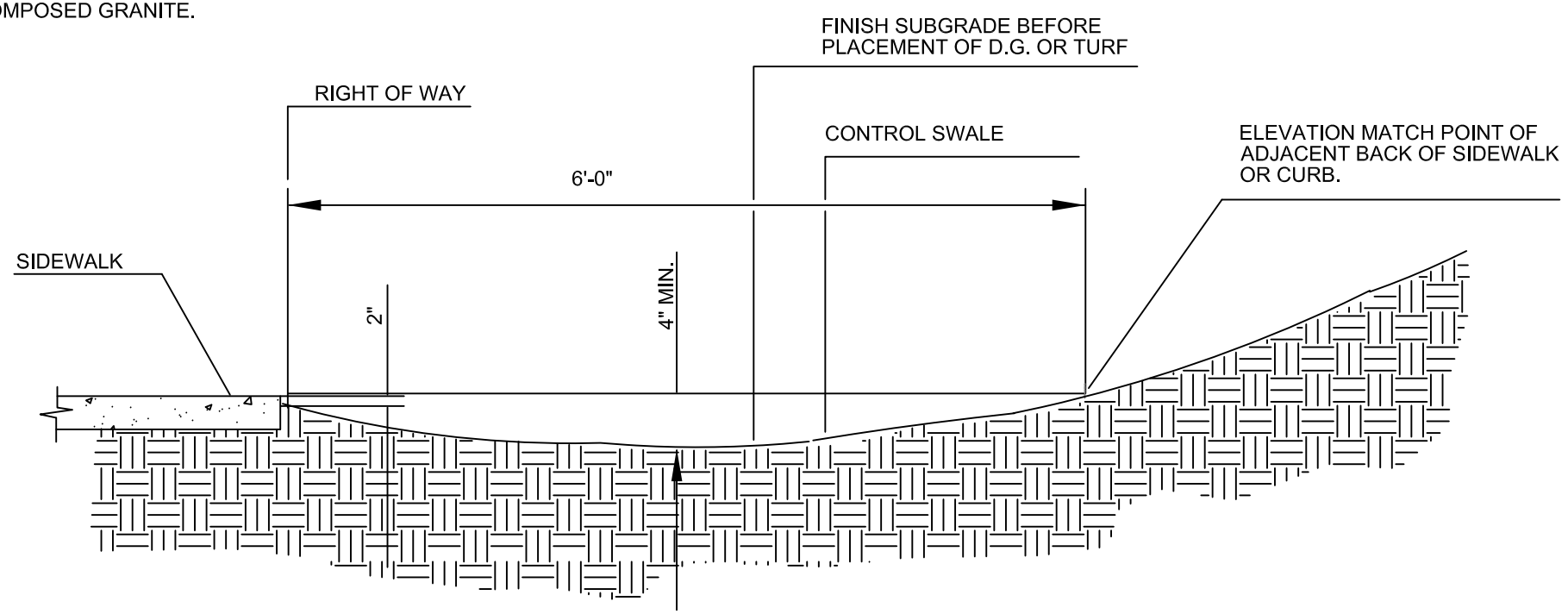
4. APPLY PRE-EMERGENT HERBICIDE PER CITY DETAILS. TWO (2) APPLICATIONS ARE REQUIRED. ONE BEFORE AND ONE AFTER SPREADING DG HERBICIDE SHALL BE MIXED WITH DYE AND APPLICATIONS SHALL BE WITNESSED BY OWNER'S REPRESENTATIVE.

5. SIZE/STYLE AS SPECIFIED ON PLANT LEGEND.

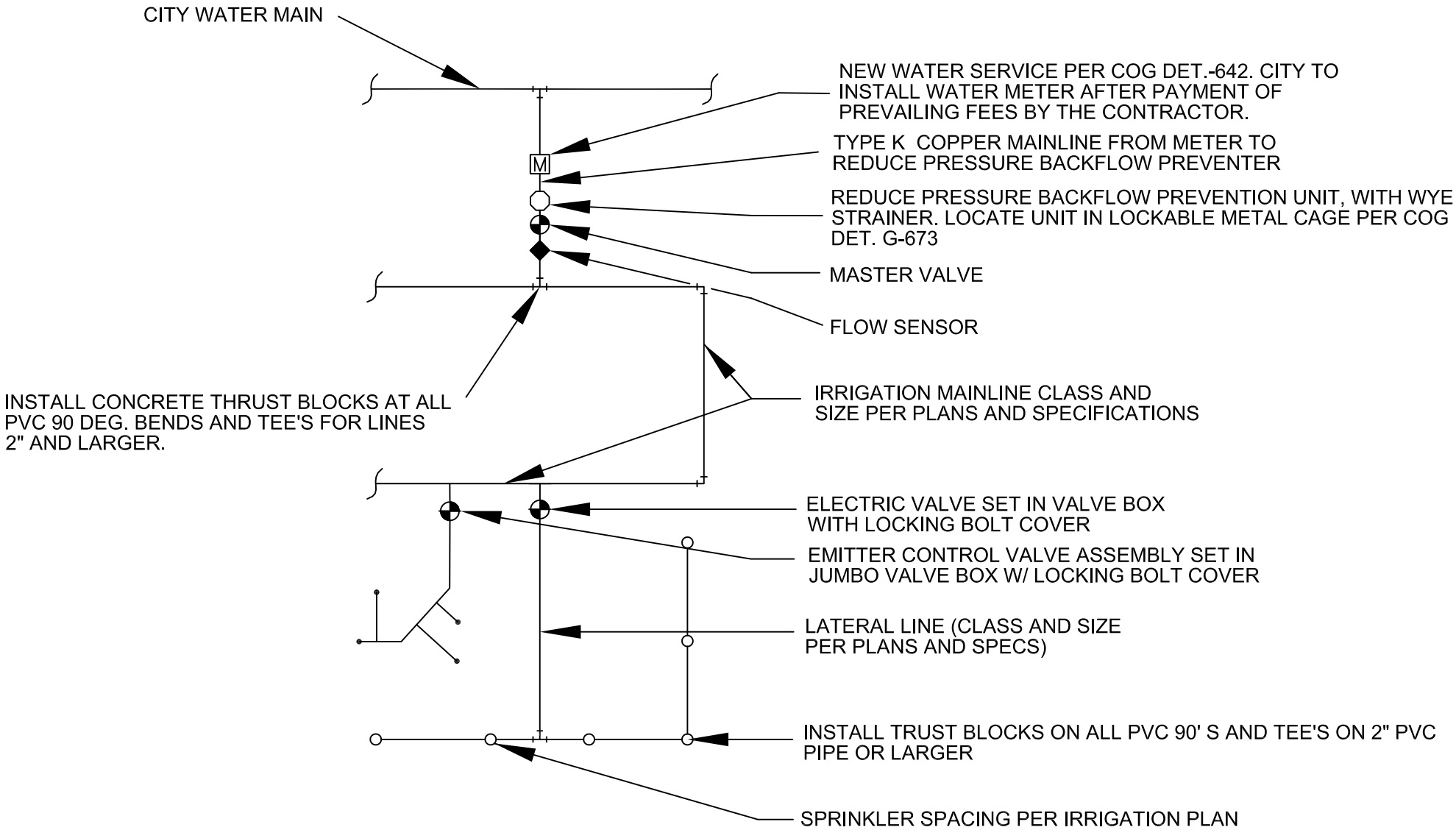
CITY OF GLENDALE STANDARD DETAIL	GLENDALE	DECOMPOSED GRANITE	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1012

NOTE

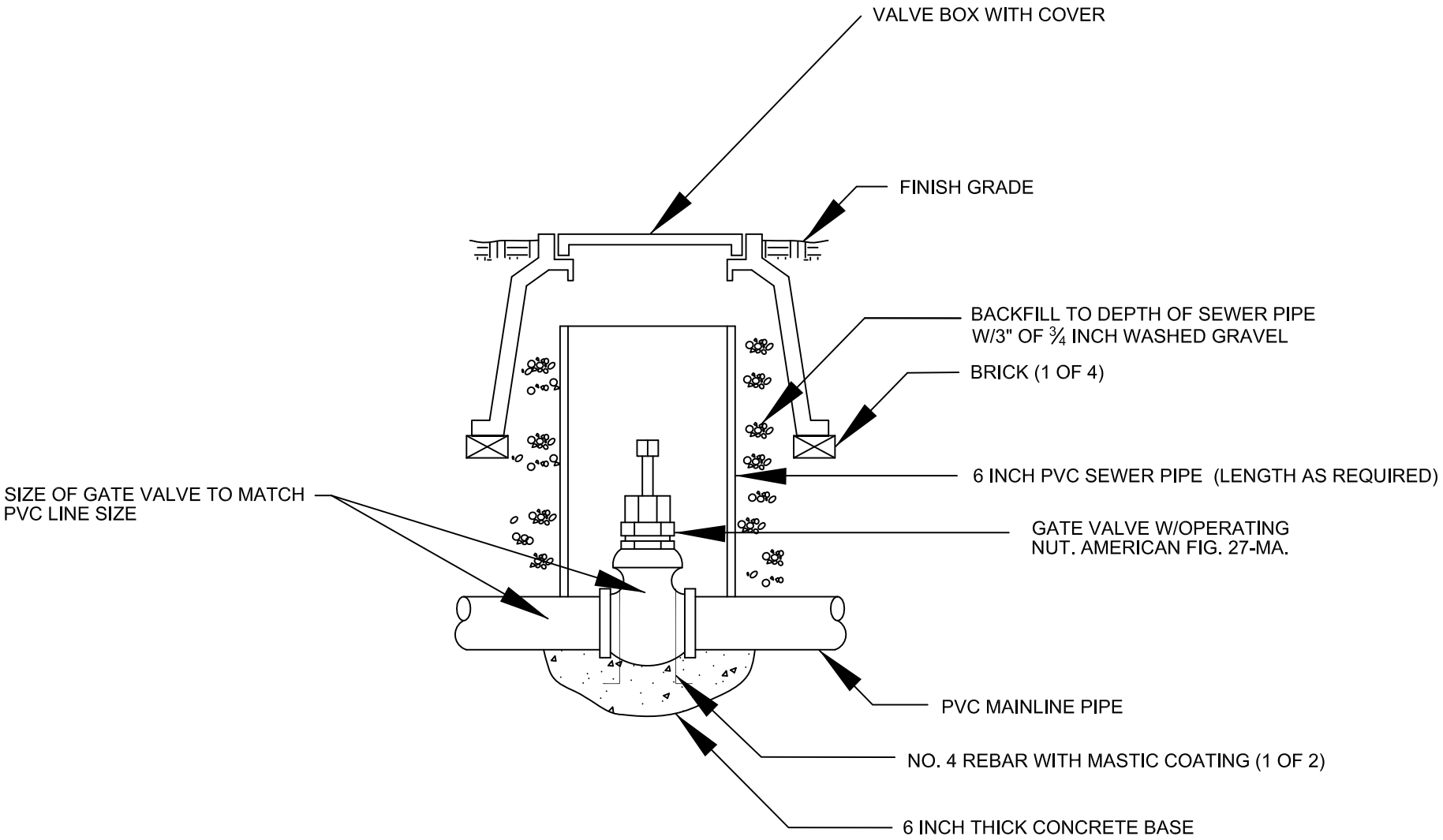
IRRIGATION SWALE MUST BE APPROVED PRIOR TO PLACEMENT OF PLANTS, TURF, OR DECOMPOSED GRANITE.



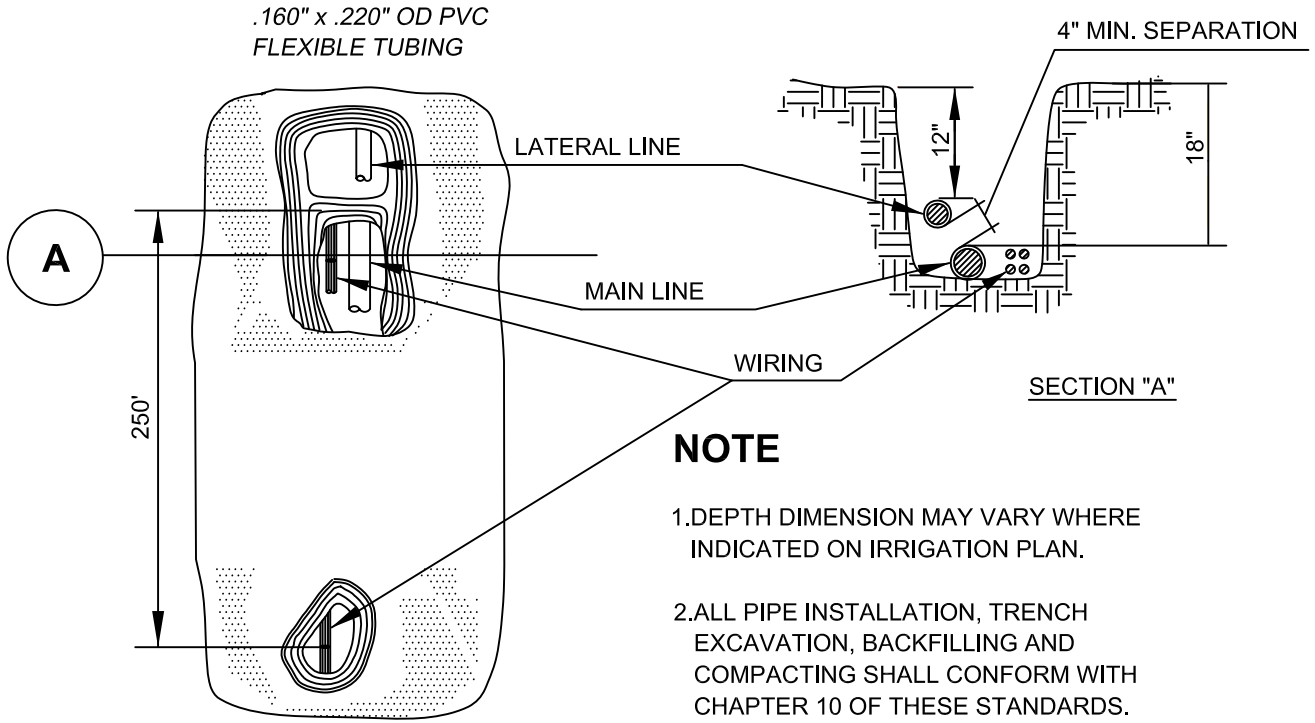
CITY OF GLENDALE STANDARD DETAIL		IRRIGATION WATER CONTROL SWALE	
APPROVED BY: CITY ENGINEER David D. Beard, P.E.		DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1014



CITY OF GLENDALE STANDARD DETAIL		WATER SYSTEM SCHEMATIC	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1020



CITY OF GLENDALE STANDARD DETAIL	GLENDALE	ISOLATION VALVE DETAIL	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1021



PLAN VIEW

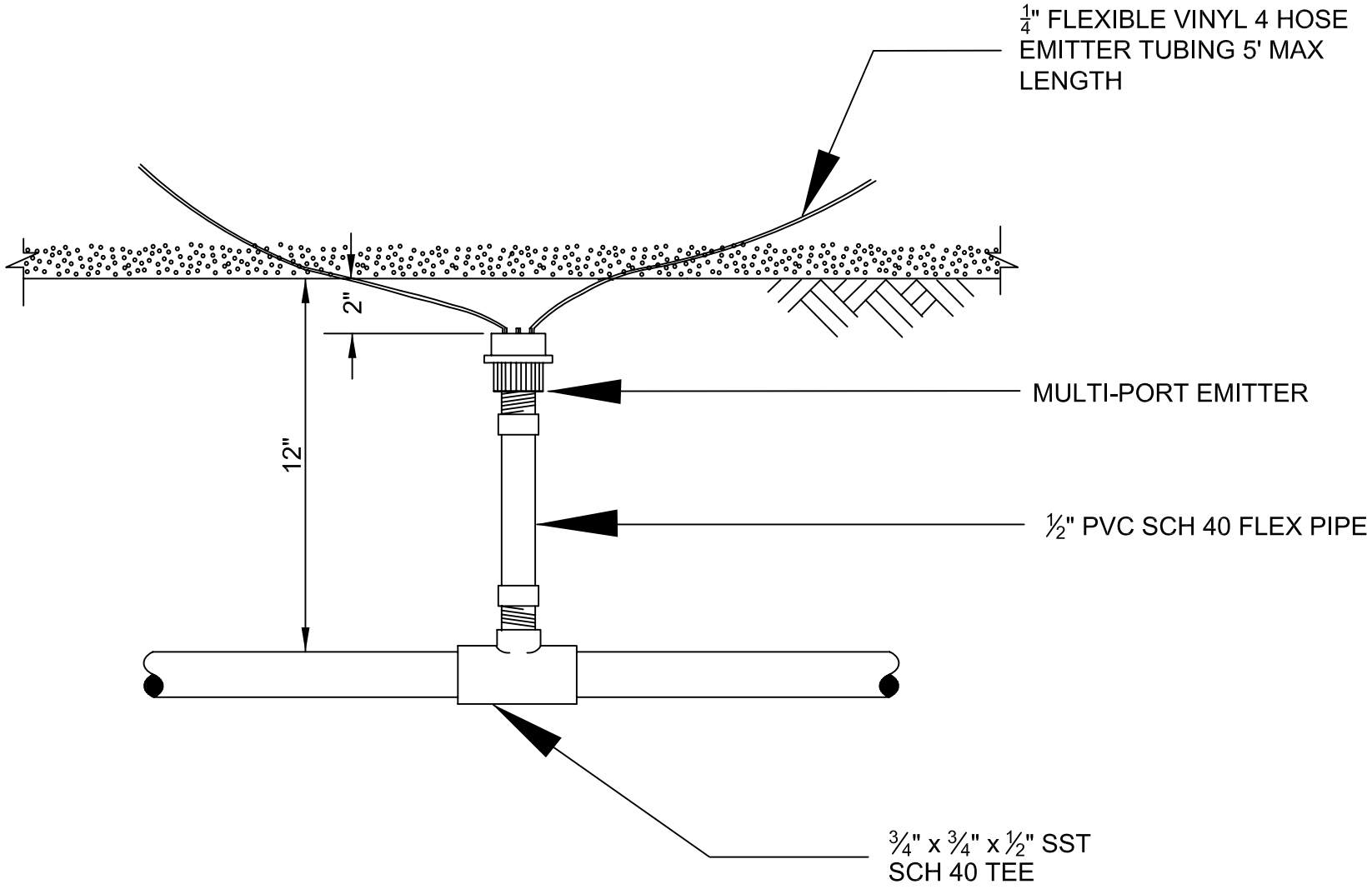
NOTE

1. DEPTH DIMENSION MAY VARY WHERE INDICATED ON IRRIGATION PLAN.

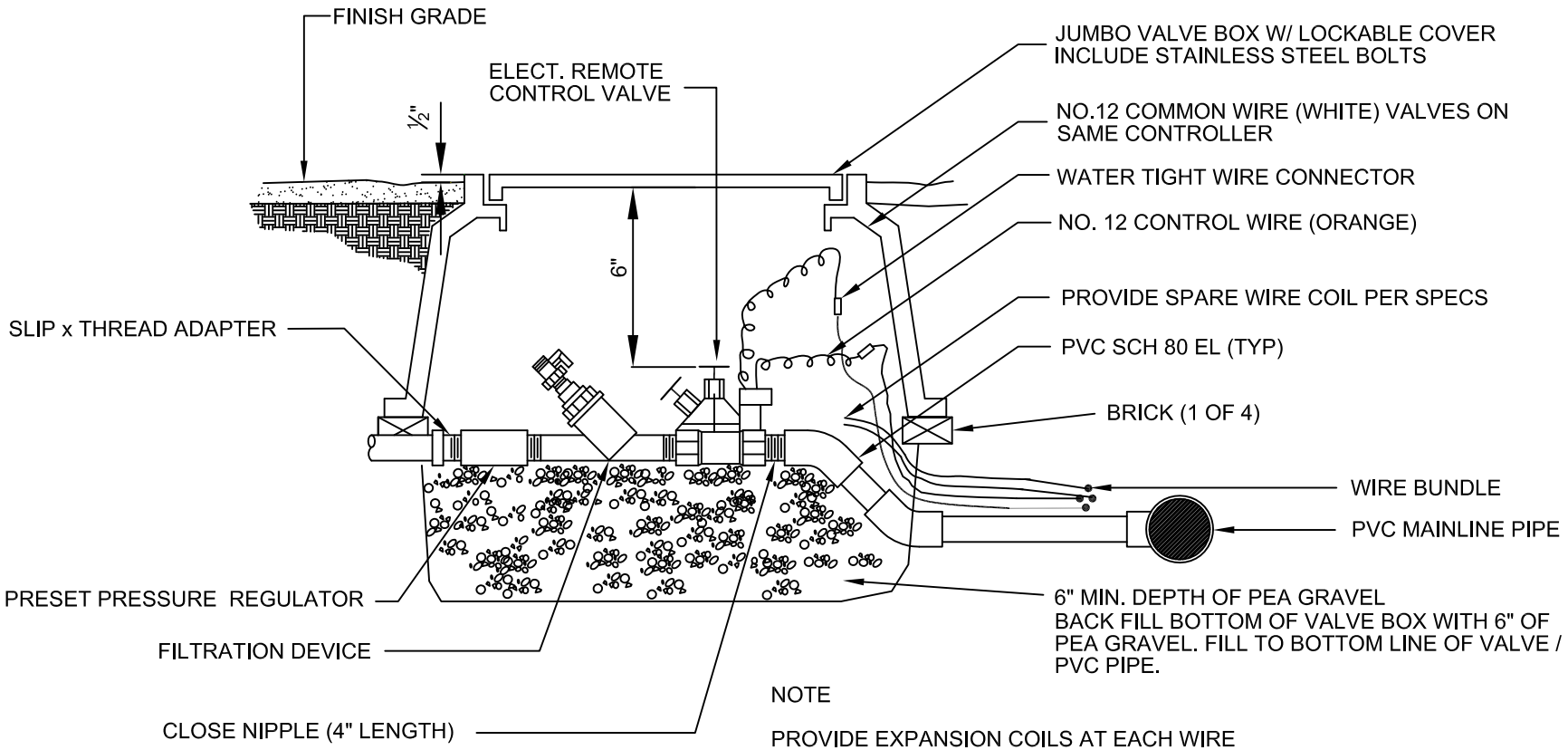
2. ALL PIPE INSTALLATION, TRENCH EXCAVATION, BACKFILLING AND COMPACTING SHALL CONFORM WITH CHAPTER 10 OF THESE STANDARDS.

3. TAPE AND BUNDLE WIRING WRAP WIRES TOGETHER W/ ELECTRICAL TAPE EVERY 10 FT. PROVIDE 12" LOOP (2') AT ALL CHANGE OF DIR. (22d) OR GREATER OR AT MIN. HORIZ. DIST OF 250 FEET.

CITY OF GLENDALE STANDARD DETAIL		TRENCH DETAIL	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1022



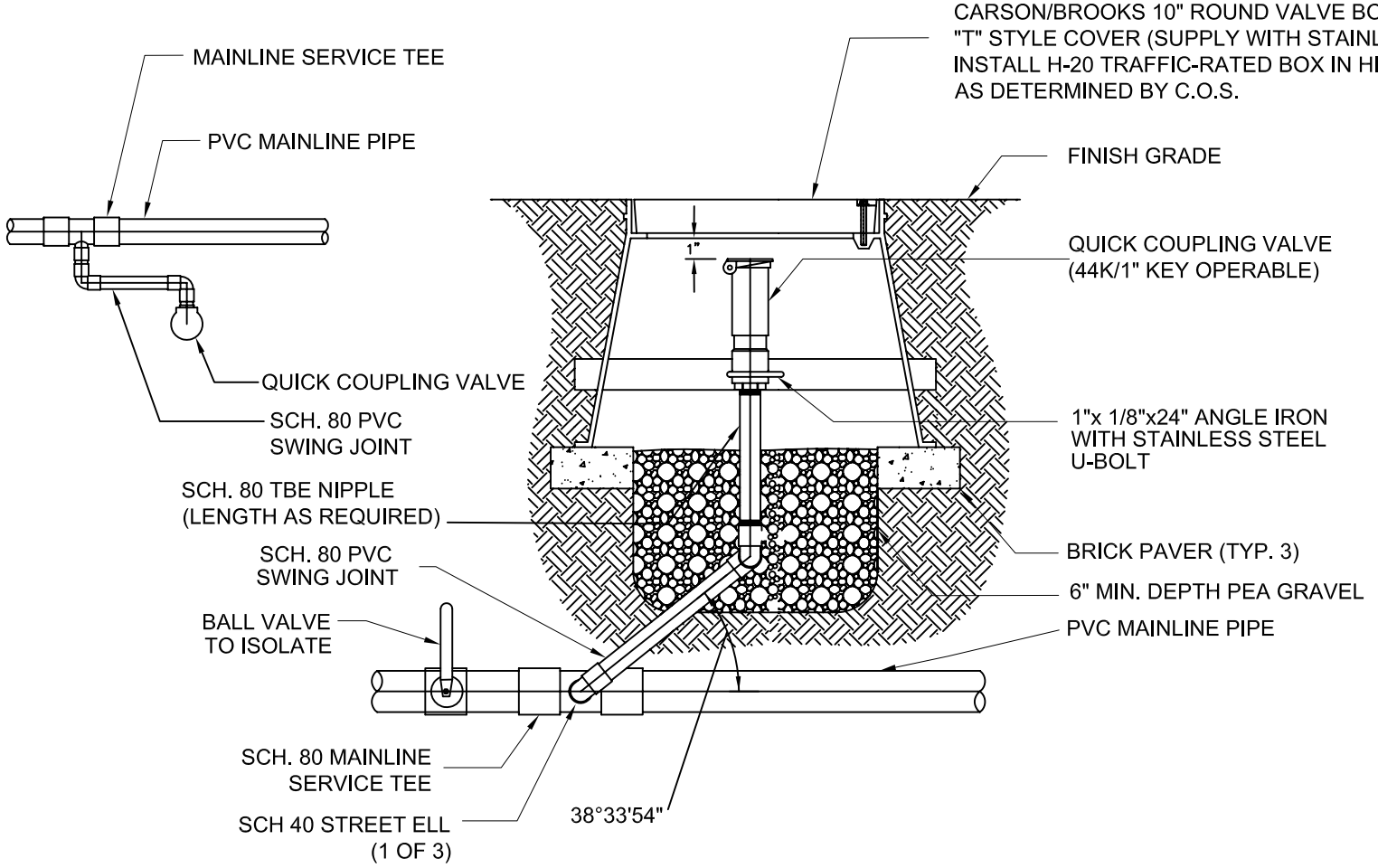
CITY OF GLENDALE STANDARD DETAIL		MULTI-OUTLET EMITTER	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1023



NOTE

PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND ½" PIPE 15 TIMES.) STEP-UP VALVE W/45° FITTINGS TO MAINTAIN 6" BETWEEN VALVE AND TOP OF BOX. EMBOSS COVER W/½" NUMBERS, WHICH CORRESPOND TO VALVE NUMBERS ON IRRIGATION PLAN AND TO CONTROLLER STATION.

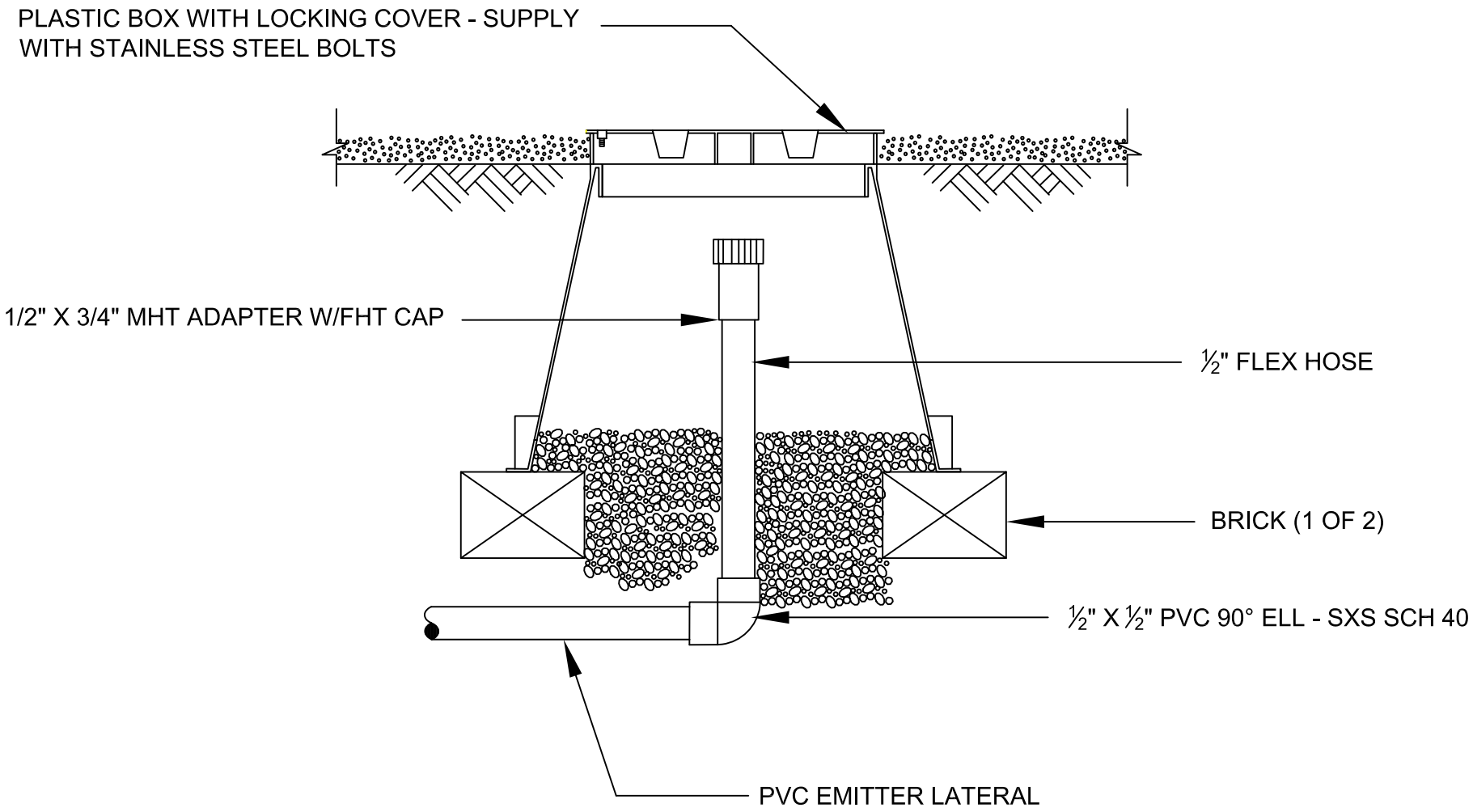
CITY OF GLENDALE STANDARD DETAIL		EMITTER CONTROL VALVE ASSEMBLY	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1024



NOTES:

1. EACH QUICK COUPLER SHALL BE IN A SEPARATE VALVE BOX.
2. SWING JOINT SHALL BE THE SAME SIZE AS QUICK COUPLER VALVE.
3. NO PRE-FAB SWING JOINTS.
4. U-BOLT TO BE SECURED WITH LOCK WASHERS AND BACK-UP LOCKING NUT.
5. BALL VALVE TO ISOLATE, NEEDS TO BE IN IT'S OWN ROUND VALVE BOX. BACKFILL WITH 6" OF PEA GRAVEL TO BOTTOM LINE OF VALVE / PVC LINE

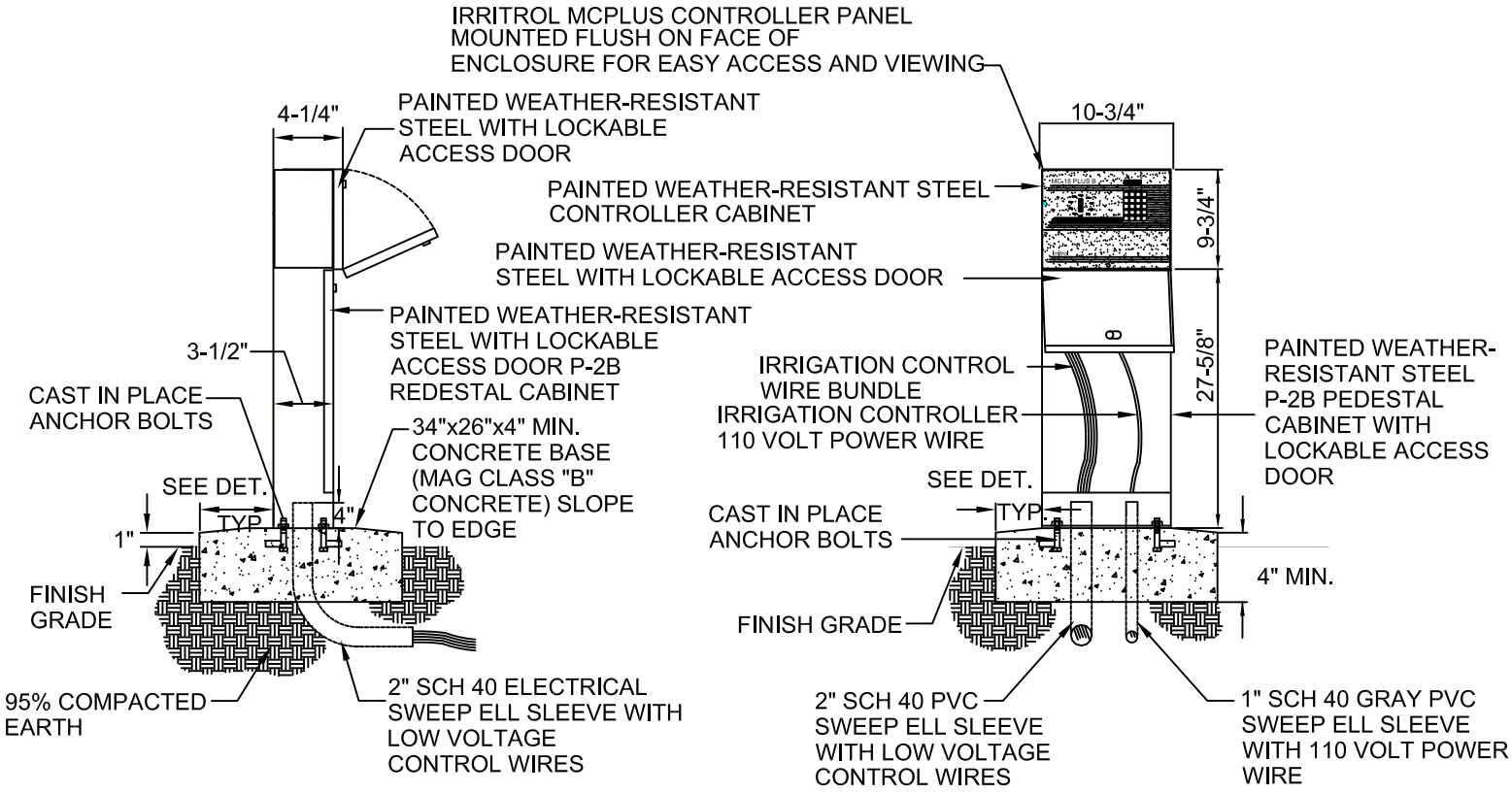
CITY OF GLENDALE STANDARD DETAIL		QUICK COUPLER ASSEMBLY	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1025



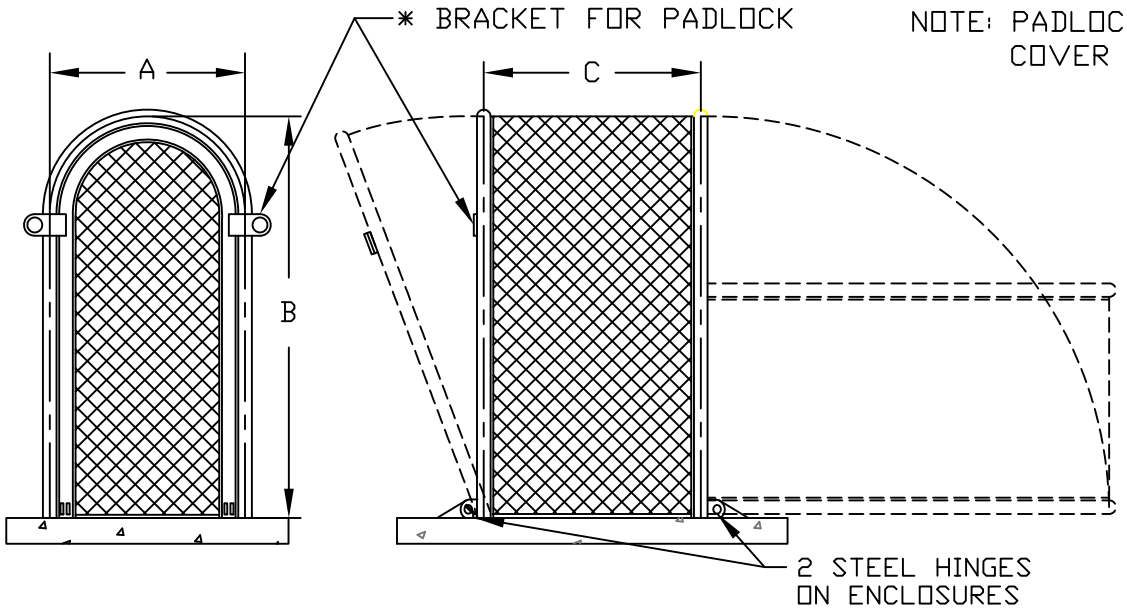
CITY OF GLENDALE STANDARD DETAIL		FLUSH END CAP ASSEMBLY	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1026

CONTROLLER NOTES:

1. 110 VOLT POWER WILL BE NEEDED TO THE CONTROLLER FROM A POWER SOURCE.
2. WHERE POSSIBLE, ALL WIRE SHALL BE ROUTED WITHIN CONDUIT. ALL WIRING NOT IN CONDUIT SHALL BE BUNDLED.
3. ALL ELECTRIC COMPONENTS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES.
4. CONTRACTOR SHALL ASSEMBLE ENCLOSURE WITH MOUNTED COMPONENTS IN A SHOP. PROVIDE DETAILED SHOP DRAWINGS OF INSTALLATION PRIOR TO CONSTRUCTION.
5. CONTROLLER CABINET AND PEDESTAL SHALL BE PAINTED WEATHER-RESISTANT STEEL WITH A LOCKABLE DOOR.
6. MAXIMUM TOTAL LOAD OF 43VA (1.8 AMPS)



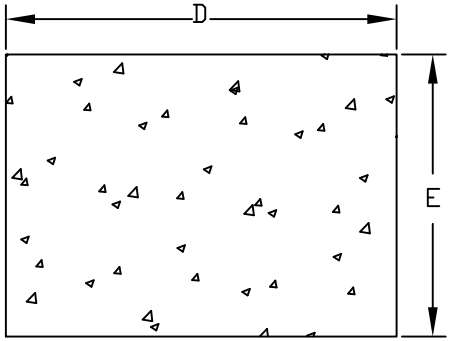
CITY OF GLENDALE STANDARD DETAIL	GLENDALE	ELECTRIC CONTROLLER ASSEMBLY	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1040



NOTE: PADLOCK WILL NEED PROTECTIVE COVER TO REDUCE CUTTING OFF

GUARDSHACK ENCLOSURES - 'TAN COLOR'

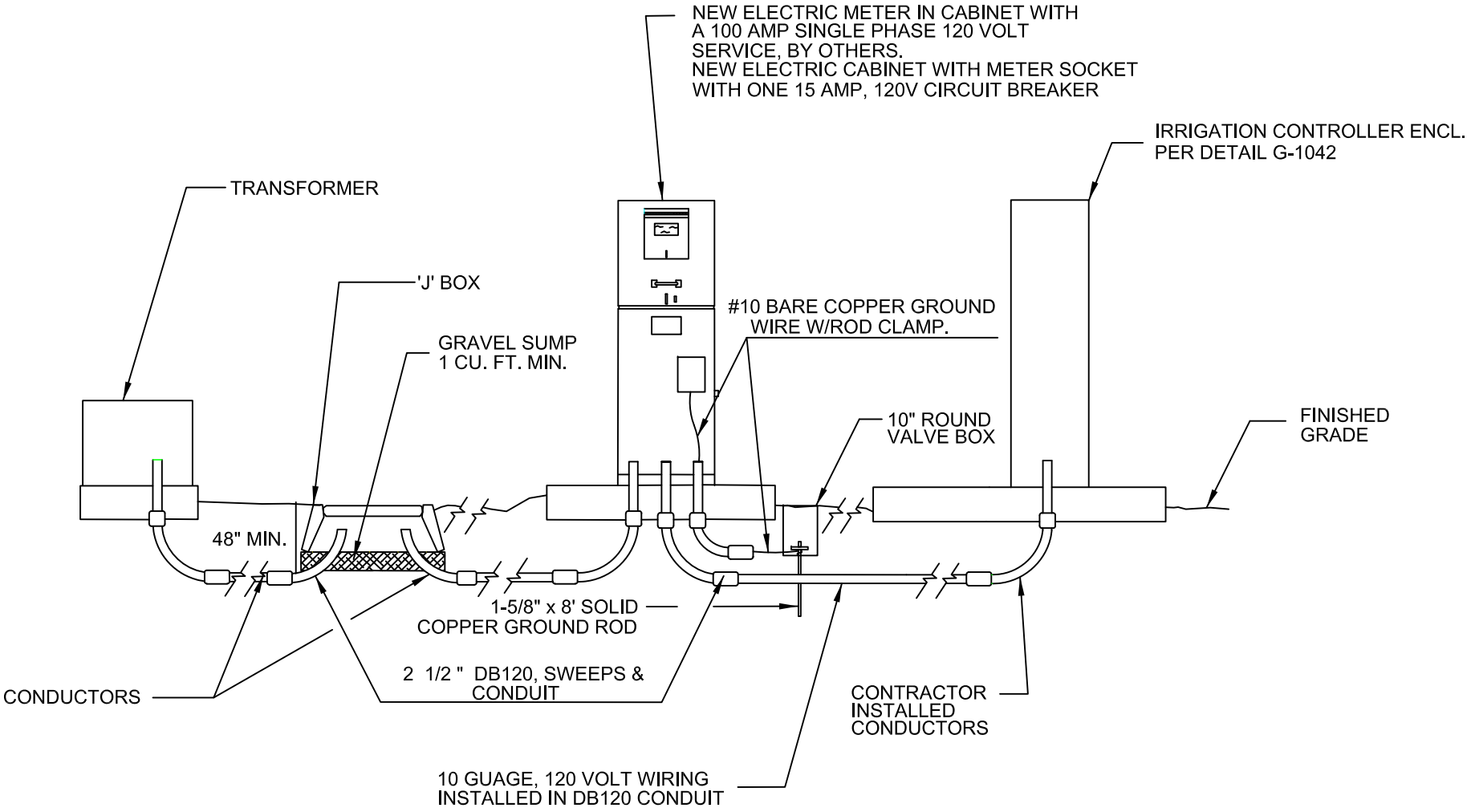
MODEL	A	B	C	D	E	INSIDE DIMENSIONS
GS-M2	18	48	20	34	26	16 x 48 x 18



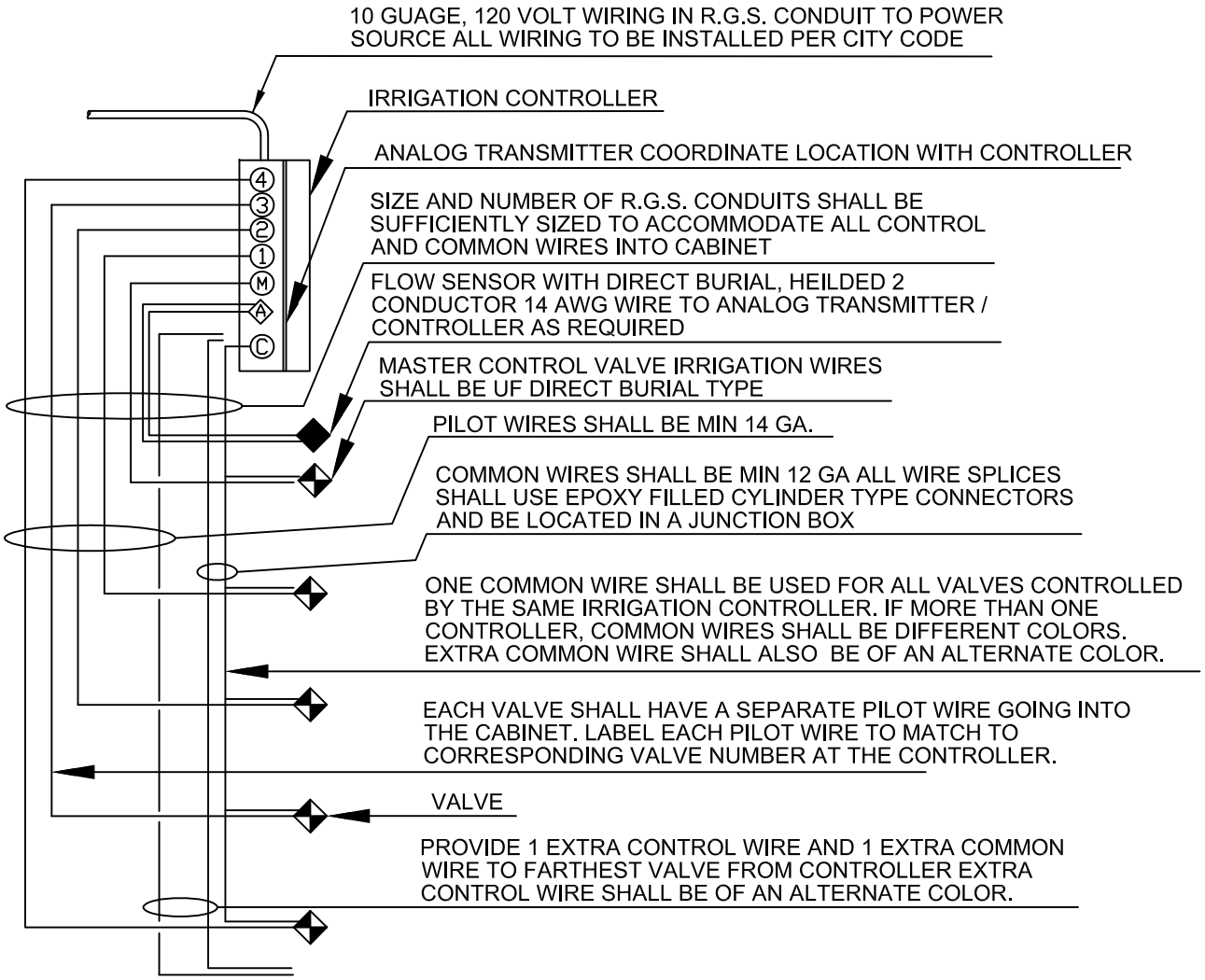
4" THICK CONCRETE PAD FOR GS-M2, CLASS 'B' CONCRETE.

INSTALL PER MFG. RECOMMENDATIONS.

CITY OF GLENDALE STANDARD DETAIL		IRRIGATION CONTROLLER CAGE	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1042



CITY OF GLENDALE STANDARD DETAIL		ELECTRIC METER AND SERVICE PEDESTAL MOUNT	
APPROVED BY: CITY ENGINEER David D. Beard, P.E.		DATE : 9/15/2014	DETAIL NO. G-1045
		REVISED: MARCH 2014	



CITY OF GLENDALE STANDARD DETAIL		CONTROLLER WIRING SCHEMATIC	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1046

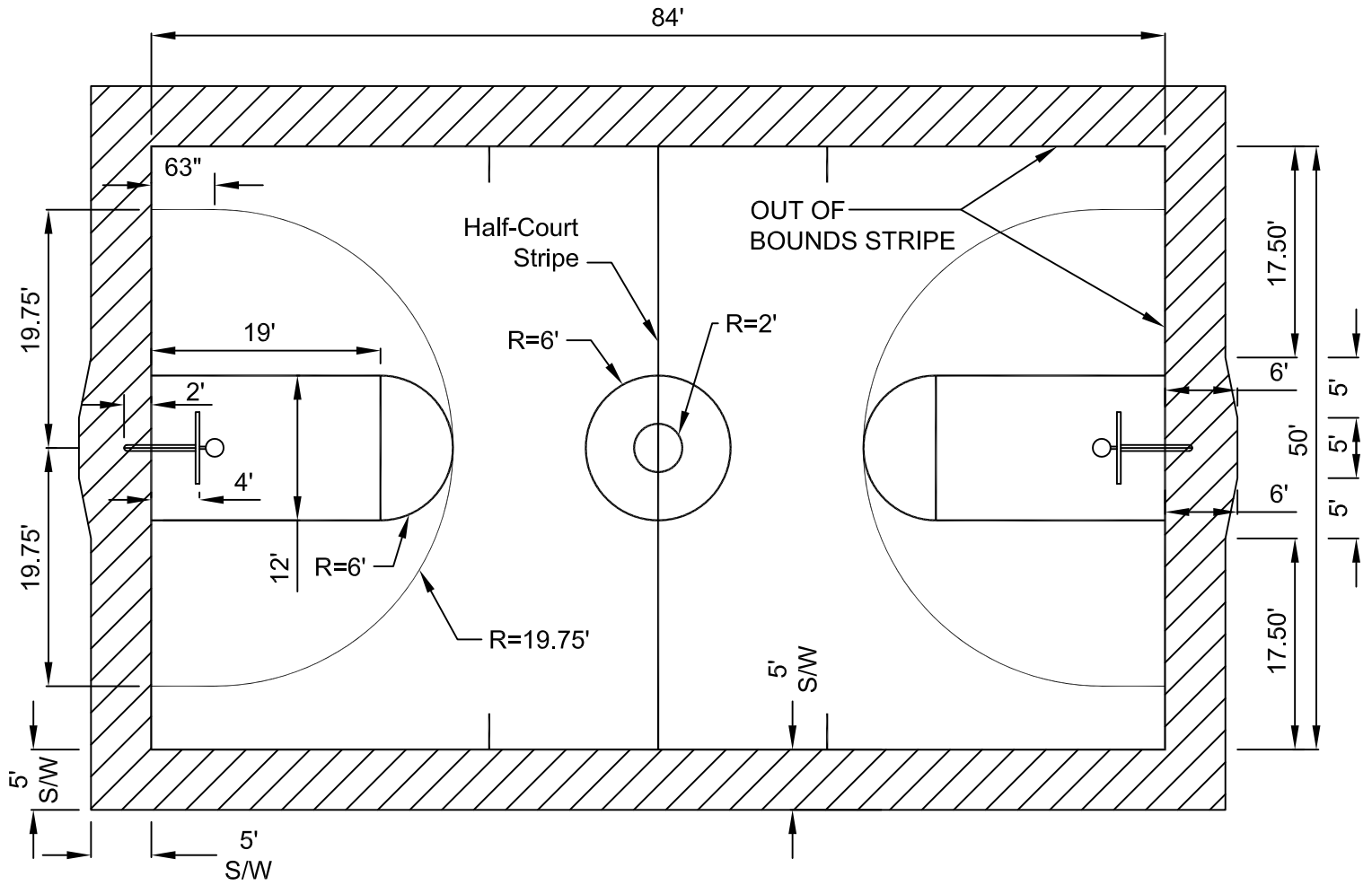
Striping Notes

1. All striping to be 2" wide, white "plastisol" paint, or equal as directed by owner. Apply after acrylic surfacing.

2. A concrete primer shall be applied to the court area only.

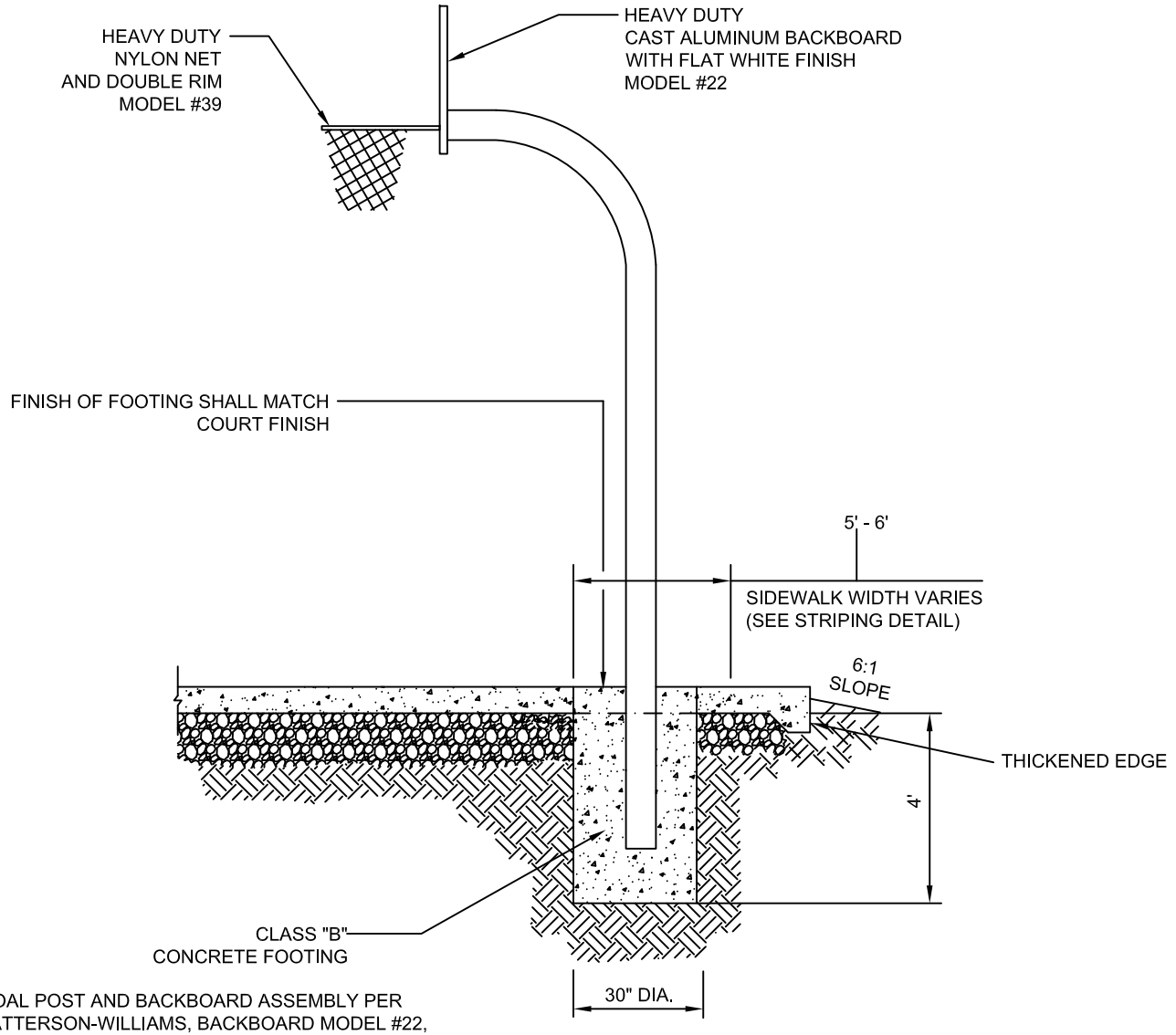
3. Apply three (3) coats of acrylic game court color coatings fortified with silica sand (per manufacturer's specifications).

4. The concrete court shall be acid etched with a solution of 10% muriatic acid to 90% potable water.



NOTE:
ALL DIMENSIONS FOR STRIPING ARE TO CENTERLINE OF STRIPES.
COURT IS SYMMETRICAL.

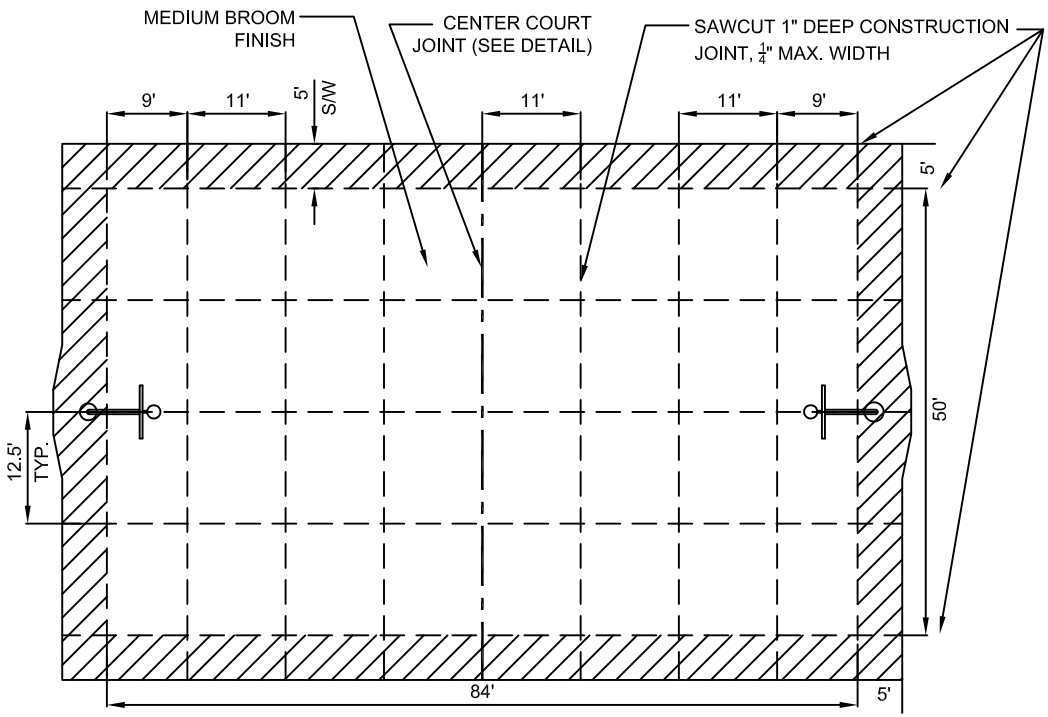
CITY OF GLENDALE STANDARD DETAIL		BASKETBALL COURT LAYOUT & STRIPING	
APPROVED BY: CITY ENGINEER	David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. G-1050



GOAL POST AND BACKBOARD ASSEMBLY PER PATTERSON-WILLIAMS, BACKBOARD MODEL #22, RIM AND NET MODEL #39 AND GOALPOST MODEL #1527 W/6' OFFSET.

BASKETBALL COURT BACKBOARD & POLE DETAIL

CITY OF GLENDALE STANDARD DETAIL	GLENDALE	**BACKBOARD, POLE AND FOUNDATION DETAIL**
APPROVED BY: CITY ENGINEER — David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-1051**

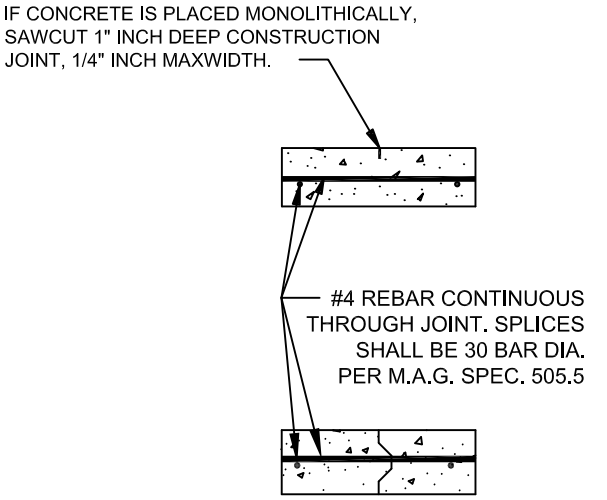


NOTE: CURING COMPOUNDS SHALL NOT BE APPLIED TO COURT SURFACE.

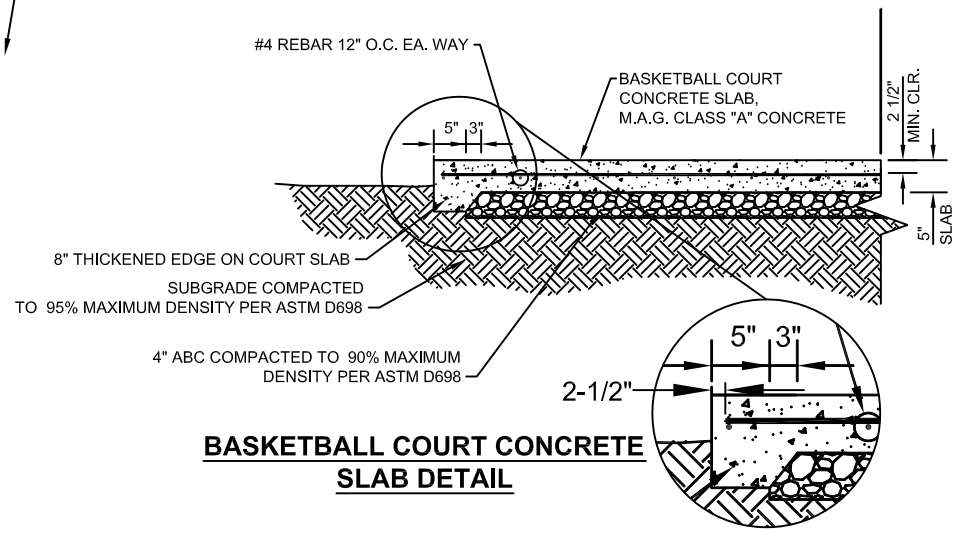
BASKETBALL COURT LAYOUT

NOTE: WHEN ADJOINING ADDITIONAL COURTS, INSTALL 3/4" PREMOLDED EXPANSION JOINT WITH WITH SELF LEVELING SEALENT THE ENTIRE LENGHT OF THE COURT.

CENTERLINE TO CENTERLINE DISTANCE BETWEEN POLES SHALL BE 88'-6"



CENTER COURT KEYWAY JOINT DETAIL



BASKETBALL COURT CONCRETE SLAB DETAIL

CITY OF GLENDALE STANDARD DETAIL GLENDALE		**CONCRETE BASKETBALL COURT**
APPROVED BY: CITY ENGINEER David D. Beard, P.E.	DATE : 9/15/2014 REVISED: MARCH 2014	DETAIL NO. **G-1052**