GENERAL Standard DETAILS

STANDARD DETAIL DRAWINGS INDEX

STANDARD UTILITY LOCATIONS

Standard Utility

TRENCH DETAIL

SEPARCH TRENCH DETAIL

STANDARD

MANHOLE

BASE STANDARD

MANHOLE

STANDARD

MANHOLE

Single ! Joint Use Casing FOR WATER ! Sewer Lines



City of Coos Bay 500 Central Ave Coos Bay, Oregon 97420 541.269.8918

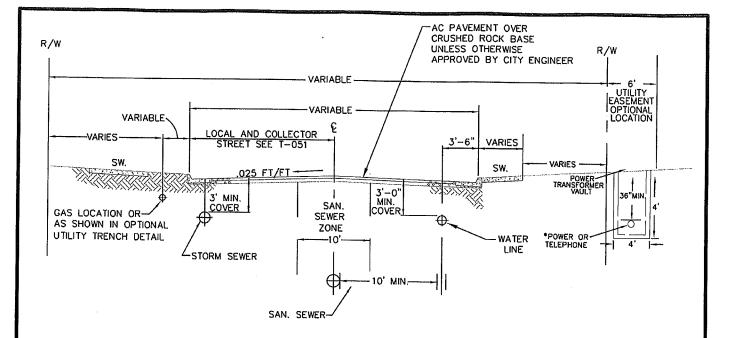
H B H
Consulting
Engineers

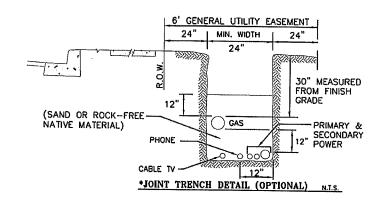
STANDARD DETAIL DRAWING INDEX

DETAIL NO

S-010

12/11/2007





- 1. WATER MAIN TO BE LOCATED 3'-6" INSIDE FROM FACE OF CURB OR AS OTHERWISE DIRECTED.
- 2. 10' HORIZONTAL SEPARATION BETWEEN WATER AND SEWER WHERE POSSIBLE. COMPLY WITH SEPARATION REQUIREMENTS OF OAR 333-061-050.
- 3. WATER DISTRIBUTION MAINS SHALL HAVE 36" MINIMUM COVER OR AS OTHERWISE DIRECTED.
- SEWER MAINS SHALL HAVE 5.25' (63") MINIMUM COVER UNLESS OTHERWISE APPROVED TO AVOID CONFLICTS WITH WATER AND OTHER UTILITIES.
- 5. WATER MAINS TO BE LOCATED ON NORTH OR EAST SIDE OF STREET WHEN PRACTICAL.
- 6. SEWER, STREETS AND DRAINAGE SUBJECT TO CITY STANDARDS.
- 7. WATER DISTRIBUTION MAINS SUBJECT TO THE COOS BAY/NORTH BEND WATER BOARD.
- 8. MANHOLE LIDS SHALL NOT BE LOCATED DIRECTLY IN NORMAL WHEEL PATH.
- 9. ALL LAYOUTS AND LOCATIONS ARE SUBJECT TO CITY APPROVAL.

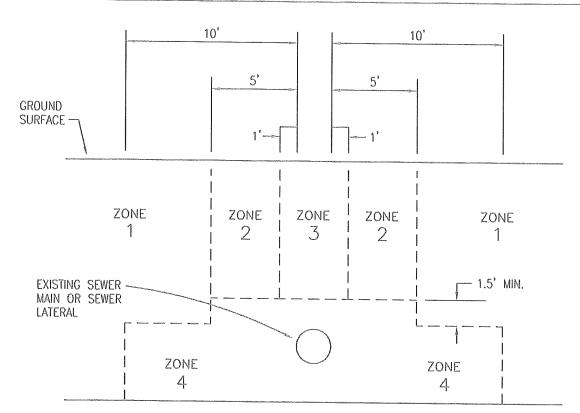


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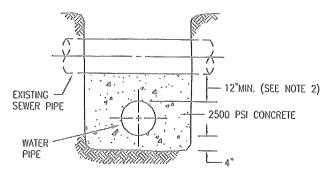


STANDARD UTILITY LOCATIONS





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ZONE	VERTICAL SEPARATION	HORIZONTAL SEPARATION	RESTRICTIONS
11	Water line higher than sewer	5'	Only crossing restrictions apply
11	Water line level or lower than sewer	10'	Only crossing restrictions apply
2	Water line 1.5' higher than sewer	Greater than 1' but less than 5'	Case-by-case determination
3	Water line 1.5' higher than sewer	Less thon 1'	Parallel water line prohibited
4	Water line less than 1.5' above sewer	Less than 5'	Parallel water line prohibited
	Water line level or lower than sewer	Less than 10'	Parallel water line prohibited



CONCRETE ENCASEMENT UNDER EXISTING PIPES

NOTE:

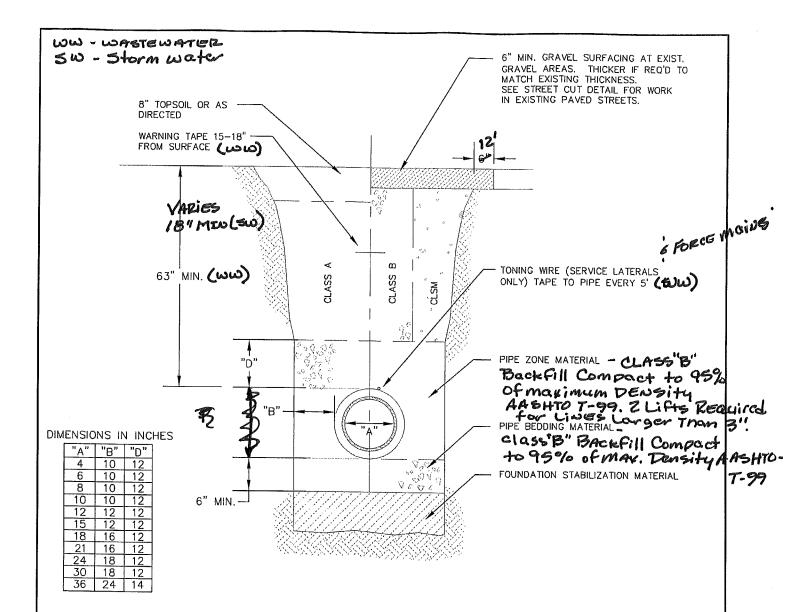
- 1. WATER & SEWER LINE CROSSINGS SHALL COMPLY WITH DESIGN STANDARDS, B. SEWER OR O.A.R. 333-61-050 FOR SEPARATION AND PIPE MATERIAL REQUIREMENTS.
- SEPARATION LESS THAN 12" FOR WATER & SEWER LINE CROSSINGS MUST BE APPROVED BY THE CITY ENGINEER.
- CONCRETE ENCASEMENT TO BE USED IN CASES WHERE
 A WATER MAIN CROSSES UNDER AN EXISTING SEWER MAIN,
 WITH CITY APPROVAL. MINIMUM ENCASEMENT LENGTH SHALL
 BE 3 FEET EACH SIDE.
- 4. UNDERGROUND UTILITIES SHALL NOT BE LOCATED CLOSER THAN 10' HORIZONTALLY FROM ANY WATER AND SEWER MAIN. UNDER SPECIAL PERMISSION FROM THE CITY ENGINEER, SEPARATION MAY BE REDUCED TO 5'.

5 Service Connections for water and sewer shall be Located wo closer than 10' Hora,

DATE :	SCALE :
6/30/95	NONE
ORAWING NO.	APPROVED BY:
6 /4 ⁻¹	G.KOLB

WATER LINE & SEWER LINE SEPARATION





SHOTE

- TRENCH EXCAVATION SHALL BE CONDUCTED IN A SAFE MANNER WITH ALL NECESSARY BRACING AND SHORING PROVIDED FOR COMPLIANCE WITH OSHA.
- 2. FOUNDATION STABILIZATION SHALL BE PROVIDED WHEN MATERIAL AT BOTTOM OF TRENCH IS UNSUITABLE IN THE OPINION OF THE CITY TO PROVIDE A STABLE TRENCH BASE.
- CONSTRUCTION IN PUBLIC RIGHT OF WAY SHALL COMPLY WITH CITY STANDARDS
- 4. CLASS B BACKFILL REQUIRED IN ALL ROADWAYS AND TRAFFIC PATHS EXCEPT WHERE CLSM BACKFILL IS REQUIRED, BY-COUNTY,
- 5. TONING WIRE REQUIRED AT SERVICE LATERALS. WIRE SHALL BE 12 GA. MINIMUM SOLID COPPER WIRE WITH GREEN 30 MIL THICK HOPE INSULATION RATED FOR DIRECT BURY. USE APPROVED WATERPROOF SPLICE AT ALL CONNECTIONS.

 3. WARNING TAPE SHALL BE 6" WIDE, 4 MIL THICK, APWA GREEN, READING "CAUTION SEWER LINE BURIED BELOW".
- 7. MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY SANITARY SEWER DESIGN STANDARDS
- 8. COMPACT ALL FILL AS SPECIFIED.

of Coos Bay Design Manual



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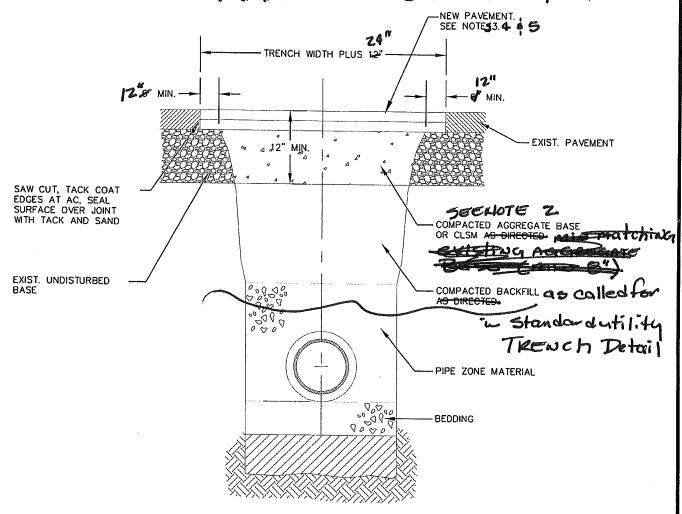


TRENCH DETAIL





5. In situations where considered pavement is overlayed with AC Pavement. Place PCC pavement in accordance to Hote 3 w AC Pavement placed in accordance w/ Hote 4.



NOTES

1. ALL EXISTING AC OR PCC PAVEMENT SHALL BE SAWCUT IMMEDIATELY PRIOR TO REPAVING.

3 2. CONCRETE PAVEMENT SHALL BE REPLACED WITH CONCRETE TO A MINIMUM THICKNESS OF 6 INCHES OR TO THE THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER.

PLACE AC MIX TO A MINIMUM THICKNESS OF 4 INCHES OR THE THICKNESS OF REMOVED PAVEMENT, WHICHEVER IS GREATER.

TWO 2" LIFTS.

4. COMPLY WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OVER THE ROAD IN WHICH THE STREET GUT OCCURS

2. Compacted Aggregate Base or CTBCLSM to a minimum of Thick NESS of Brinches or the thickness of Removed of Regate Base, Which ever is Greater. compacted of as directed.

Standard Utility TRENCH Detail

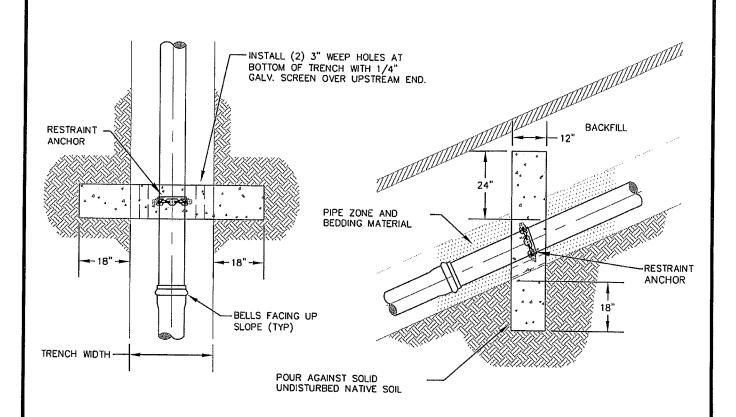


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STREET CUT





- 1. CUT-OFF WALLS REQ'D AT ALL PIPELINES WHERE SLOPE EXCEEDS 20%.
- 2. RESTRAINED JOINT PIPE REQUIRED AT SLOPES BETWEEN 15% AND 20%.
- 3. WALLS SHALL BE FORMED WITHIN TRENCH, REMOVE FORMS PRIOR TO BACKFILLING.

5. SPACING OF WALLS SHALL BE:

SLOPE	SPACING
20-34%	35 FEET
35-50%	25 FEET
51-+ %	15 FFFT

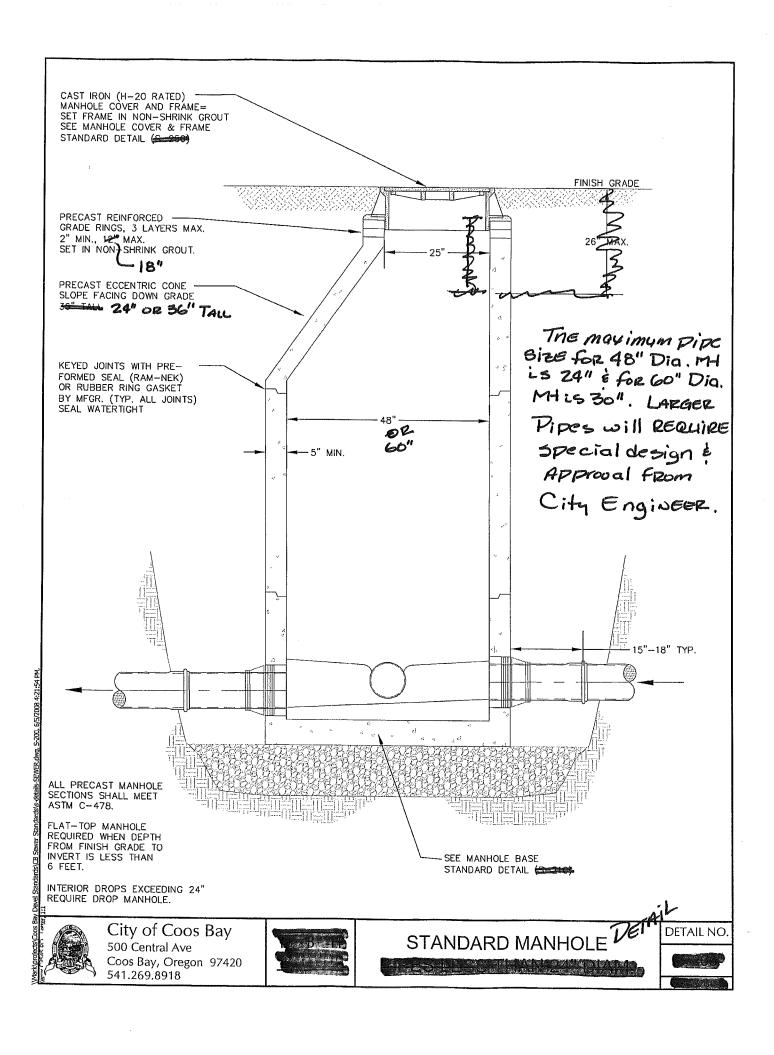


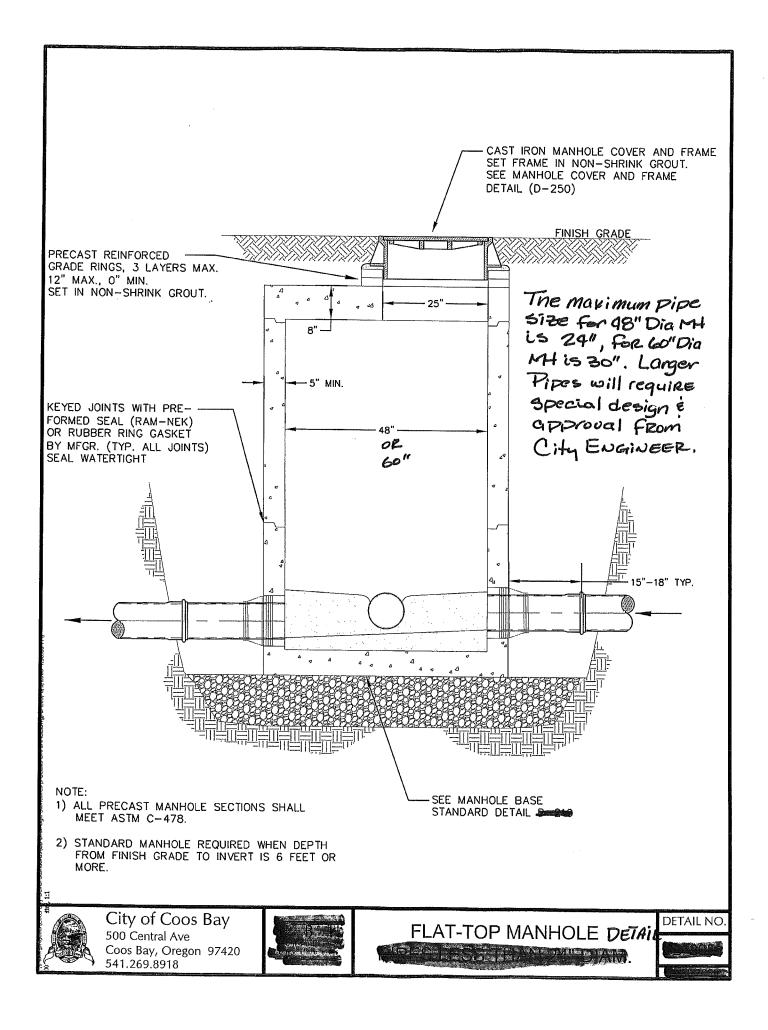
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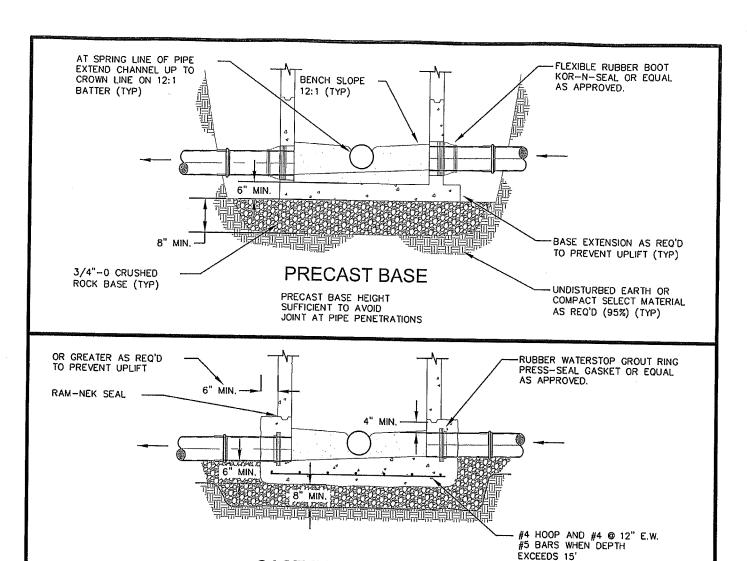


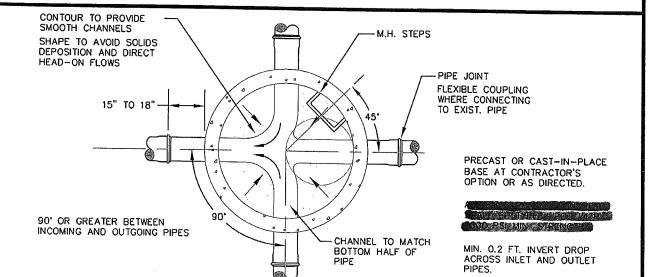
PIPE ANCHOR / TRENCH CUT-OFF WALL DETAIL











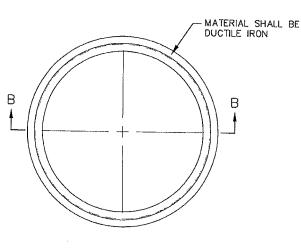
CAST-IN-PLACE BASE



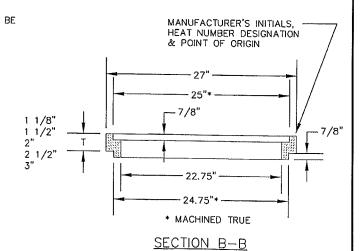


MANHOLE BASE STANDARD DETAILS





MANHOLE ADJUSTMENT RINGS FOR RESURFACING



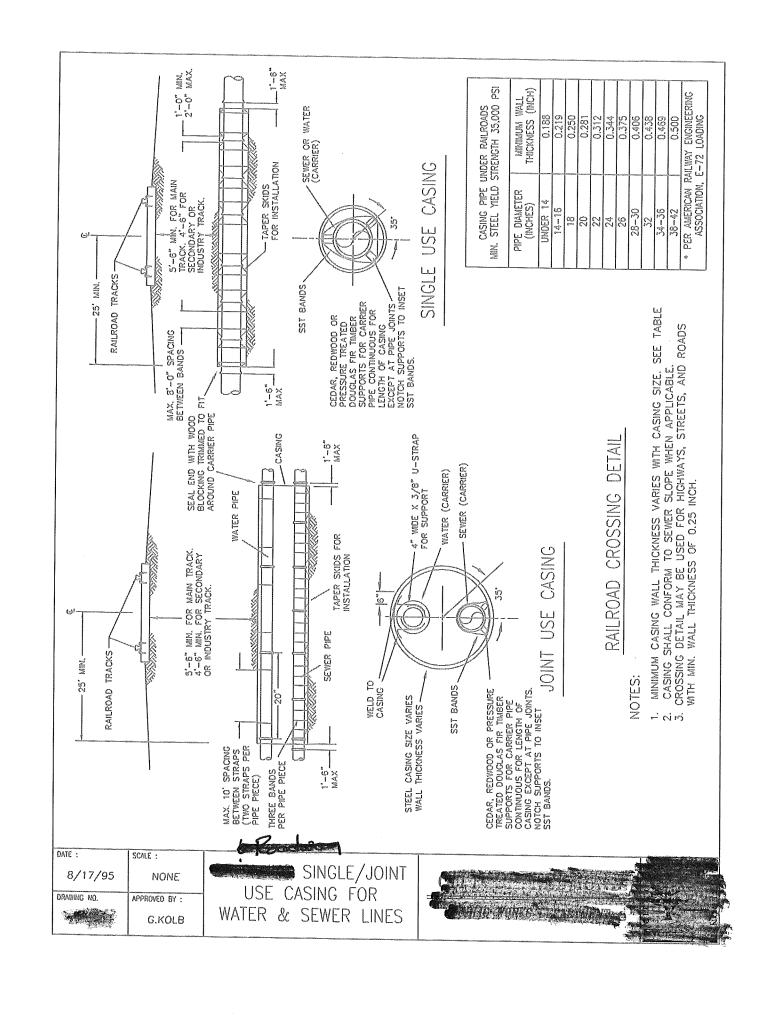


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MANHOLE FRAME **GRADE ADJUSTMENT**





STREET AND TRANSPORTATION SYSTEMS

STANDARD DETAIL DRAWINGS INDEX

T-050: STANDARD PAVED STREET

T-051: MINIMUM STRUCTURAL STREET DESIGN

TYPICAL CUL-DE-SAC DETAIL T-100:

COMMERCIAL DENSINAY Tupical Mult: -USE PATH
201 PEDESTRIAN/BIKE PATH DETAIL

Approach Option"B"

STANDARD SIDEWALK DETAILS T-210:

SIDEWALK & CURB RAMPS (WIPlanter offip)

CALO RAMP AND TEXTURE DETAIL WITH PLANTER STRIP

214 RAMP AND TEXTURE DETAIL WITHOUT PLANTER STRIP

T-301: CURB AND GUTTER DETAIL

T - 302: VALLEY GUTTER DETAIL

T-401: STANDARD STREET LIGHT DETAIL

STANDARD SIGN DETAIL Typical Stope Street Mame Sign STREET SIGN AND LETTERING DETAILS T-450: STANDARD SIGN

T-451:

T-501: STANDARD PERMANENT BARRICADE DETAIL

> Cluster Postal Delivery Box Barking BAY "T" INTERSECTION Alignment Standard.

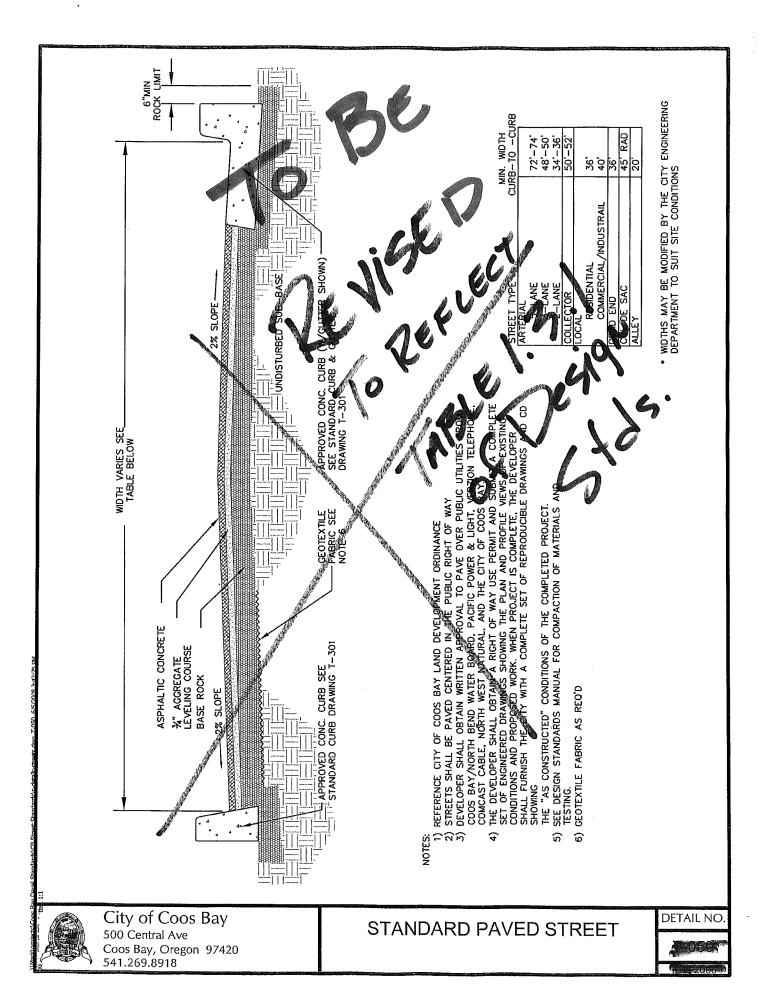


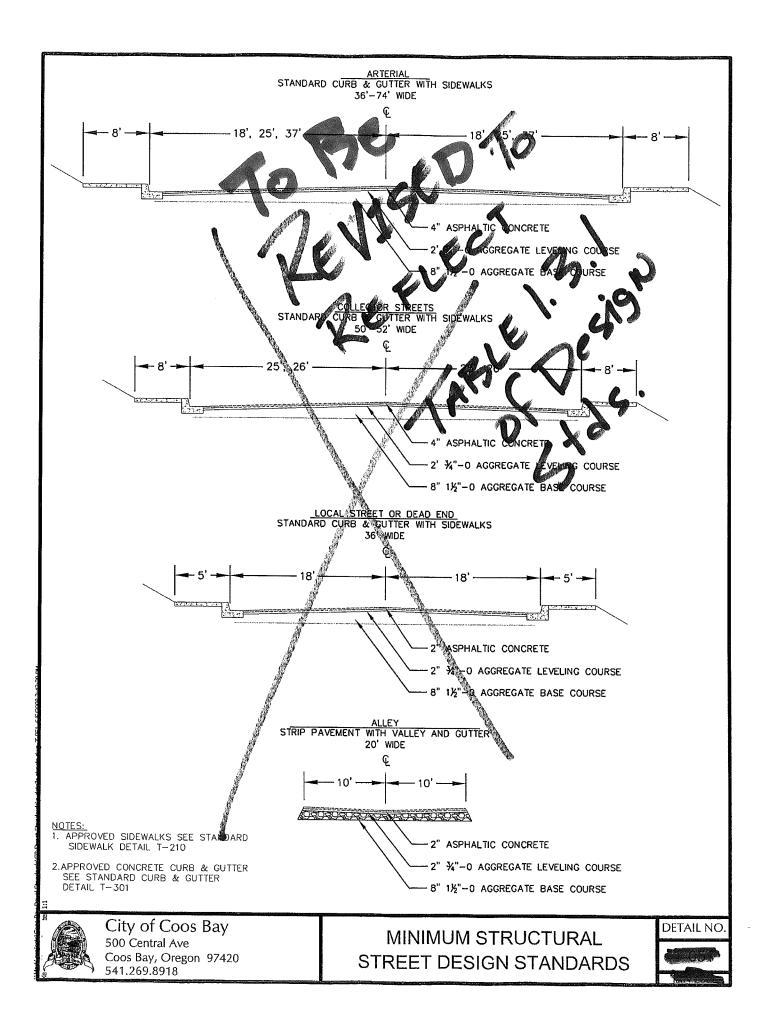
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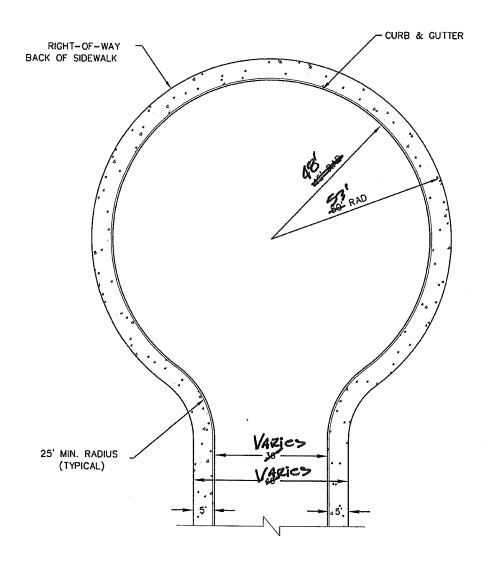


STANDARD DETAIL DRAWING INDEX

DETAIL NO.







1. CUL-DE-SAC GEOMETRY SHOWN DOES NOT ALLOW FOR ON-STREET PARKING. IF ON-STREET PARKING IS DESIRED, THE RADIUS TO THE FACE OF CURB MUST BE INCREASED TO ACCOUNT FOR A SINGLE PARKING LANE WIDTH. (MINIMUM 8 FEET)



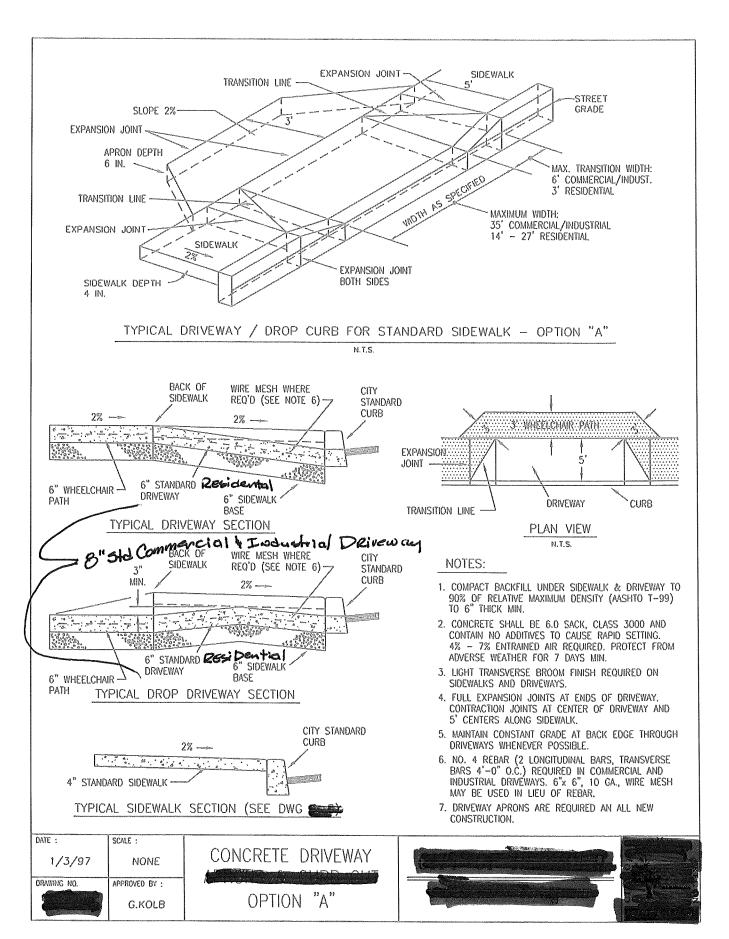
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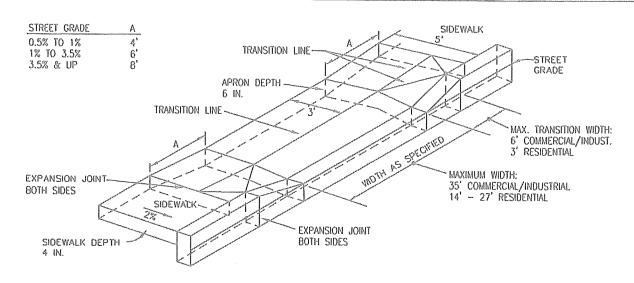


TYPICAL CUL-DE-SAC DETAIL



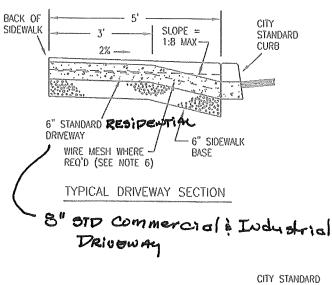


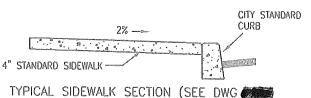




TYPICAL DRIVEWAY / DROP CURB FOR STANDARD SIDEWALK - OPTION "B"

N.T.S.





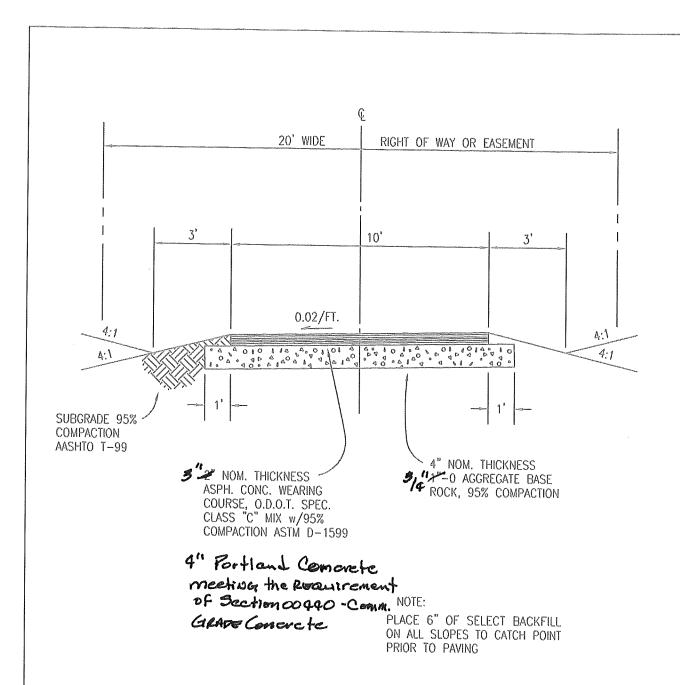
EXPANSION 3 WHEELCHAIR PATH 5
JOINT DRIVEWAY CURB

PLAN VIEW
N.T.S.

NOTES:

- COMPACT BACKFILL UNDER SIDEWALK & DRIVEWAY TO 90% OF RELATIVE MAXIMUM DENSITY (AASHTO T-99) TO 6" THICK MIN.
- CONCRETE SHALL BE 6.0 SACK, CLASS 3000 AND CONTAIN NO ADDITIVES TO CAUSE RAPID SETTING.
 4% - 7% ENTRAINED AIR REQUIRED. PROTECT FROM ADVERSE WEATHER FOR 7 DAYS MIN.
- 3. LIGHT TRANSVERSE BROOM FINISH REQUIRED ON SIDEWALKS AND DRIVEWAYS.
- FULL EXPANSION JOINTS AT ENDS OF DRIVEWAY, CONTRACTION JOINTS AT CENTER OF DRIVEWAY AND 5' CENTERS ALONG SIDEWALK.
- 5. MAINTAIN CONSTANT GRADE AT BACK EDGE THROUGH DRIVEWAYS WHENEVER POSSIBLE.
- 6. NO. 4 REBAR (2 LONGITUDINAL BARS, TRANSVERSE BARS 4'-0" O.C.) REQUIRED IN COMMERCIAL AND INDUSTRIAL DRIVEWAYS. 6"x 6", 10 GA., WIRE MESH MAY BE USED IN LIEU OF REBAR.
- DRIVEWAY APRONS ARE REQUIRED AN ALL NEW CONSTRUCTION.

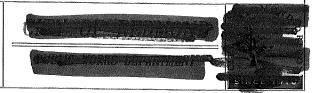
DATE :	SCALE :	A STATE OF THE STA	e de la companya del companya de la companya de la companya del companya de la co	
1/3/97	NONE	CONCRETE DRIVEWAY		
ORAWING NO.	APPROVED BY :			h
	G.KOLB	OPTION "B"		
	*	• ·		•



DATE: SCALE:
6/30/95 NONE

DRAWING NO. APPROVED BY:
G.KOLB

TYPICAL MULTI-USE PATH SECTION

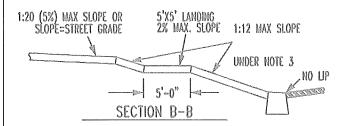


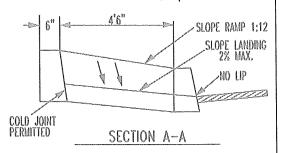
Concrete per Coty of Coss BAY Standard Specification Section XX Carl obarshi NOTES: STANDARD SIDEWALK CROSS SLOPE SHALL R/W TOP OF CONCRETE WHEN THE LOT IS BELOW THE TOP SIDEWALK TO BE THE CURB AND SLOPE DOWN FROM SPECIFIED 14"ABOVE BACK OF CURB , A MINUS 2% SLOPE MAY BE REQUIRED 2% 3) CONCRETE DEPTH FOR SIDEWALKS SHALL SHALL BE A NOMINAL 4" MIN. DRIVEWAY SECTIONS INCLUDING SIDEWALKS THROUGH DRIVEWAYS SHALL BE NOMINAL 6" MIN FOR 7/// 4 MIN. 34" CRUSHED Residentiali OGAL STREETS AND 8" FOR ARTERIALS COMMO ROCK OR SAND AS ADDUSTRIAL ADDOCHES. APPROVED BY THE CITY WITH A MIN. 4) CONTRACTION JOINTS SHALL BE INSTALLED STANDARD CURB & DEPTH OF AT APPROXIMATE INTERVALS OF 15' BY GUTTER, DETAIL T-301 CUTTING AT LEAST & OF THE DEPTH OF THE CONCRETE. "DUMMY" JOINTS SHALL BE DRIVEWAY SECTION TYPICAL CURB TYPE CROSS SECTION INSTALLED AT APPROXIMATE INTERVALS OF 5'. EXPANSION JOINTS WITH PREMOLDED FILLER SHALL BE INSTALLED BETWEEN R/W DRIVEWAYS & SIDEWALKS AT THE DIRECTION OF THE ENGINEER, SEE DRIVEWAY STANDARD 5) INSTALL A BOND BREAKER OR ISOLATION VARIABLE -0" JOINT BETWEEN BACK OF CURB & SIDEWALK, & AROUND ANY OBSTRUCTION WITHIN SPECIFIED RECOMMENDED MIN. 4' MIN, SIDEWALK AREA 6) DRAIN BLOCKOUTS IN THE CURB SHALL BE EXTENDED TO THE BACK OF THE SIDEWALK WITH A 3" DIA. PLASTIC PIPE AT A 2% SLOPE. A CONTRACTION JOINT SHALL BE MIN. ¾" CRUSHED ROCK OR SAND AS APPROVED BY THE PLACED OVER THE PIPE 7) SEE STANDARD WHEELCHAIR/BICYCLE RAMP CITY WITH A MIN. DETAILS FOR SIDEWALK PATTERNS AT INTERSECTION CURB RETURNS DEPTH OF DRIVEWAY SECTION STANDARD CURB & GUTTER, DETAIL T-301 TYPICAL SETBACK TYPE CROSS SECTION 8) SEE, ALSO, STANDARD DETAILS FOR DRIVEWAYS. J. 150 T. 9) A MIN. SEPARATION OF 4' BETWEEN CURB & SIDEWALK IS RECOMMENDED FOR LANDSCAPE MAINTENANCE 10) SIDEWALKS 8' AND WIDER SHALL HAVE A LONGITUDINAL CONTRACTION JOINT AT THE CONTRATION JOINT (EXPANSION JOINT CONTRATION JOINTS AT APPROXIMATE IT AGAINST EXSITING SIDEWALK) 15' INTERVALS TOOLED "DUMMY" JOINTS AT CONTINUE PATTERN THROUGH DRIVEWAY APARON APPROXIMATE 5' INTERVALS STANDARD DRIVEWAY (OPTIONAL) 4 STANDARD CURB & GUTTER EXPANSION JOINT REQUIRED IF JOINT IN SIDEWALK TO ABUTTING AGAINST EXISTING MATCH JOINT IN CURB CONCRETE SIDEWALK SIDEWALKS 8' AND WIDER SHALL HAVE A LONGITUDINAL CONTRACTION JOINT AT THE PLACE BOND BREAK BETWEEN CURB-AND SIDEWALK MIDPOINT TYPICAL PLAN VIEW City of Coos Bay DETAIL NO. STANDARD SIDEWALK 500 Central Ave Coos Bay, Oregon 97420 **DETAILS** 541.269.8918

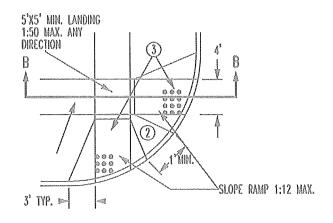
CURB

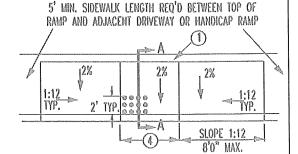
4

THESE REQUIREMENTS BASED ON OREGON STATE HIGHWAY DIVISION DWG. NO. RD725, 1/96

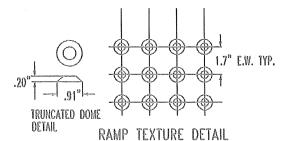








PERPENDICULAR RAMP STANDARD FOR NEW CONSTRUCTION (SHOWN ON 15' RADIUS) PARALLEL RAMP (SHOWN ON TANGENT)



- 1. PLACE TRUNCATED DOMES AS O.D.O.T.DETAIL DWG. NO. RD255
- 2. TEXTURE TO BE APPLIED TO LOWER 2' OF RAMP

NOTE:

1. BACK EDGE OF RAMP IMPROVEMENT TO BE THE SAME PROFILE AND GRADE AS THE CONTINUATION OF THE BACK EDGE OF SIDEWALK THROUGH THE RAMP AREA.

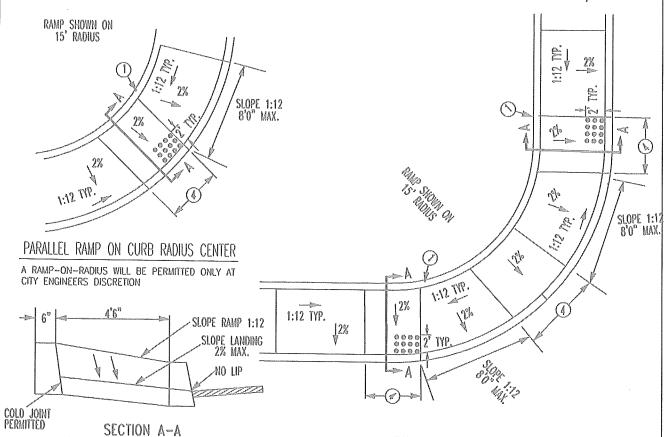
2. THIS AREA IS NOT A SIDEWALK AND IS CONCRETE SURFACED ONLY FOR MAINTENANCE PURPOSES. WHERE THIS AREA EXCEEDS 100 SF, OR IS DESIGNED FOR LANDSCAPING IN AN APPROVED SITE PLAN, IT MAY BE LEFT OPEN.

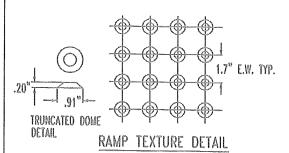
3. IN ALTERATIONS CURB RAMP SLOPE(S) MAY BE 10% FOR A MAX. RISE OF 6" OR 12.5% FOR A MAX. RISE OF 3". CURB RAMPS, IN ALTERATIONSNEED NOT EXCEED 6' IN LENGHT. [O.D.O.T. DWG. NO. RD255]

4. 5'-0" MIN. NEW CONSTRUCTION; 4'-0" MIN. ALTERATIONS; SIDE FLARES: SEE NOTE 6, [ODOT DWG. NO. RD725] - NO GRATING IS TO BE SPECIFIED AT THE BOTTOM OF RAMP - RAMPS FOR BIKEWAYS TO BE A SEPARATE DESIGN CONFORMING TO BIKEWAY STANDARDS.

DATE :	SCALE :			100 (100 (100 (100 (100 (100 (100 (100
4/22/03	NONE		SIDEWALK	Carry Comment of the second of the second
DRAWING NO.	APPROVED BY :	4	& CURB	
	JSE	*	RAMPS	The Area of the second of the







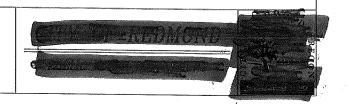
- 1. PLACE TRUNCATED DOMES AS PER O.D.O.T. DETAIL DWG. NO. RD725.
- 2. TEXTURE TO BE APPLIED TO LOWER 2 ' OF RAMP.

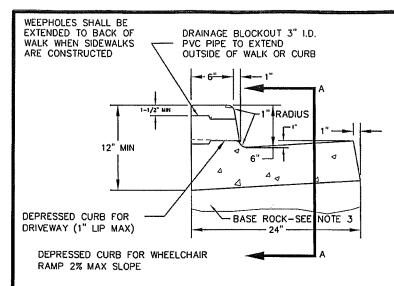
1. BACK EDGE OF RAMP IMPROVEMENT TO BE AT THE SAME PROFILE AND GRADE AS THE CONTINUATION OF THE BACK EDGE OF THE SIDEWALK THROUGH THE RAMP AREA.

PERPENDICULAR RAMP STANDARD FOR NEW CURB TIGHT CONSTRUCTION

- 2. IN ALTERATIONS CURB RAMP SLOPE(S) MAY BE 10% FOR A MAX. RISE OF 6" OR 12.5% FOR A MAX. RISE OF 3". CURB RAMPS, IN ALTERATIONS NEED NOT EXCEED 6' IN LENGTH. [ODOT DWG. NO. RD725]
- 3. 5'-0" MIN. NEW CONSTR.; 4'-0" MIN. ALTERATIONS
 -SIDE FLARES: SEE NOTE 6, [ODOT DWG. NO. RD725]
 -NO GRATING IS TO BE SPECIFIED AT THE BOTTOM OF RAMP
 -RAMPS FOR BIKEWAYS TO BE A SEPARATE DESIGN CONFORMING TO BIKEWAY STANDARDS.

NAME OF TAXABLE PARTY OF TAXABLE PARTY.		
DATE :	SCALE :	
4/22/03	NONE	SIDEWALK
DRAWING NO.	APPROVED BY :	& CURB
The second secon	JSE	RAMPS





WEEPHOLES ARE TO BE CONSTRUCTED USING 3" ID DRAIN PIPE & COUPLING. PLACE WEEPHOLES AT EXPANSION JOINTS WHENEVER POSSIBLE

3" WEEPHOLE

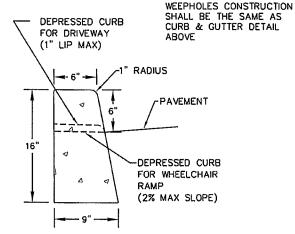
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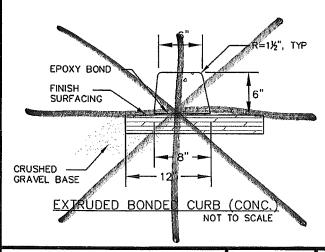
EXPANSION JOINT

SECTION AA: WEEPHOLES
NOT TO SCALE

TYPICAL INTEGRAL CURB & GUTTER NOT TO SCALE



TYPICAL STRAIGHT CURB (TYPE C) NOT TO SCALE



Congrerera

2. CONTRACTION JOINTS

NOTES:

- A) TO BE PROVIDED
 - -AT EACH POINT OF TANGENCY
 - -AT EACH COLD JOINT
 - -AT EACH SIDE OF INLET STRUCTURES
- -AT BOTH SIDES OF AN APPROACH B) SPACING TO BE NOT MORE THAN A FEET
- C) THE DEPTH OF THE JOINT SHALL BE AT
- LEAST 1/3 OF THE THICKNESS OF CONCRETE
- D) EXPANSION JOINTS IN CURB & GUTTER SHALL BE PLACED AT MAX AS INTERVALS IN 15 MULTIPLES
- 3. BASE ROCK 1-1/2"-0", 95% COMPACTION ROCK SHALL BE TO SUBGRADE OF THE STREET SECTION OR 4" IN DEPTH, WHICHEVER IS GREATER
- 4. DRAINAGE BLOCK 3" DIA. PLASTIC PIPE
 - A) DRAINAGE ACCESS THROUGH EXISTING CURBS SHALL BE DONE BY:
 - -CORE DRILLING, OR
 - -VERTICAL SAWCUT OF CURB 18" EACH SIDE OF DRAIN AND RE-POURED TO FULL DEPTH
 - OF CURB
- STAMP TOP OF CURB WITH "W" AT WATER SERVICE CROSSING AND "S" AT SANITARY LATERAL CROSSING AS SPECIFIED
- THE PUBLIC RICHT OF WAYS OR PRIVATE STREET
- SEE STANDARD CURB CUT DETAIL FOR DRIVEWAY
- 8. TYPICAL STRAIGHT CURB (TYPE C) ALLOWED FOR REPLACEMENT OF EXISTING TYPE C CURBS AND NOT RECOMENDED FOR NEW CONSTRUCTION

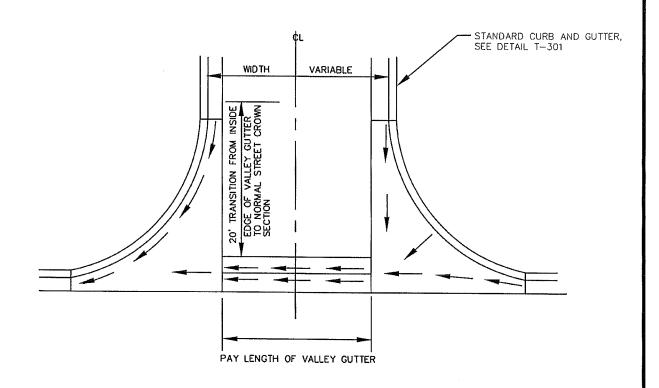


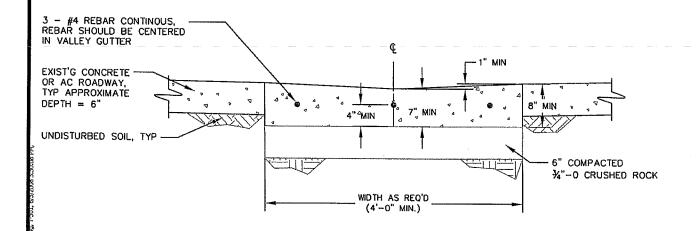
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CURB AND GUTTER DETAILS







1) VALLEY GUTTERS ARE NOT TO BE USED EXCEPT FOR IN ALLEYS OR OTHER SPECIAL CONDITIONS AS APPROVED BY CITY ENGINEER.

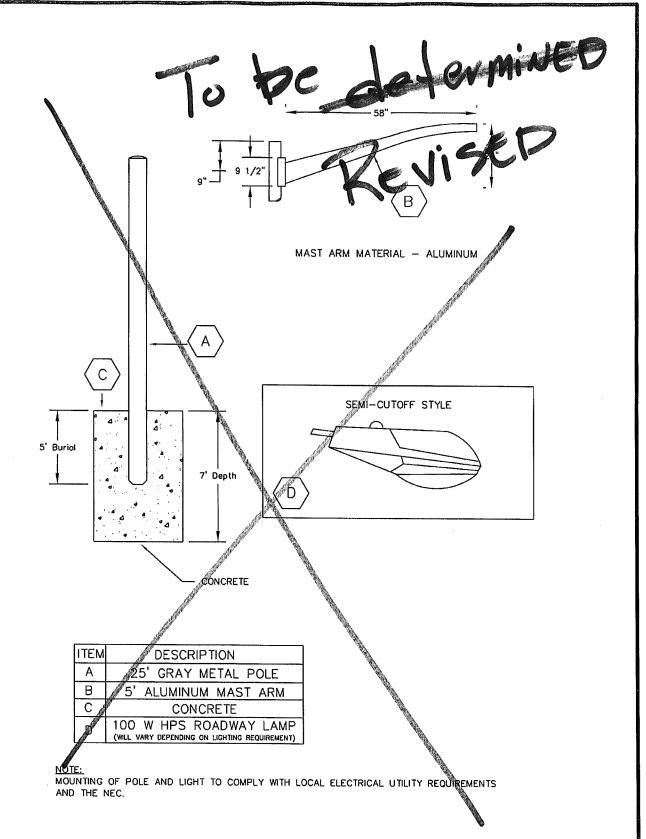


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VALLEY GUTTER DETAIL







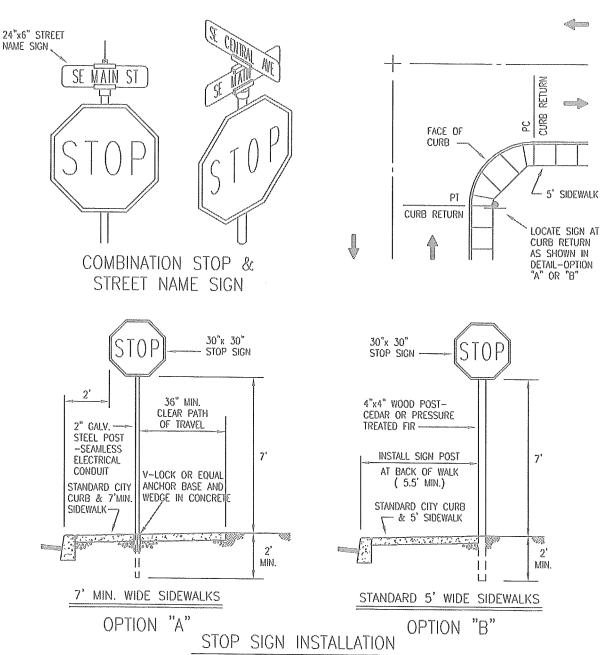
City of Coos Bay 500 Central Ave Coos Bay, Oregon 97420 541.269.8918



STANDARD STREET LIGHT DETAIL

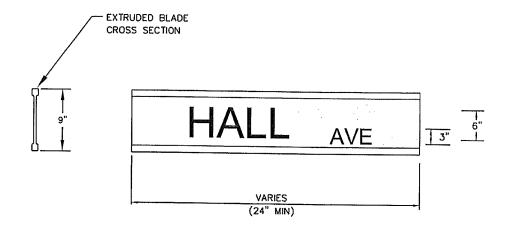






- SIGNS TO MEET ALL FEDERAL AND STATE HIGHWAY DEPT, SPECS.
- 2. FACES ARE MADE OF ENGINEER GRADE REFLECTIVE 3M BRAND SCOTCHLITE.
- 3. ALUMINUM BACKING IS MADE OF 5052-H38 ALLOY AND IS OF 0.080 GAUGE THICKNESS.
- 4. STREET NAME SIGNS TO HAVE 4" WHITE LETTERS WITH GREEN BACKGROUND.
- 5. SIGNS SHALL BE CONNECTED TO WOOD POST WITH (4) 5/16" X 2" GALVANIZED LAG WOOD SCREWS.

DATE :	SCALE :		(Caracana)
4/22/03	NONE	TYPICAL STOP & -	CERTIFICATION OF THE PARTY OF T
DRAWING NO.	APPROVEO BY :	STREET NAME SIGN	
	JSE	COMBINATION	And the second s



1. MATERIALS

STREET NAME SIGN SHALL BE 9" HEIGHT, EXTRUDED ALUMINUM. THE MINIMUM LENGTH SHALL BE 24" AND MAXIMUM LENGHT SHALL BE 36" BOTH SIDES OF STREET NAME SIGNS SHALL BE GREEN 3M SCOTCHLITE BRAND HIGH INTENSITY REFLECTIVE SHEETING WITH WHITE BORDER.

2. LETTERING

ALL LETTERS, NUMBERS, AND BORDERS USED TO FABRICATE A STREET NAME SIGN SHALL BE HIGH INTENSITY SILIVER USING 3M SCOTCHLITE BRAND. THERE ARE TWO SIZES OF LETTERS THAT MAKE UP A STREET NAME SIGN. FOR PREFIXES, SUFFIXES, AND BLOCK NUMBERS. A 3" SERIES 'C' IS USED. THE ACTUAL NAME OF THE STREET IS A 6" SERIES 'B'. ALL STREET NAME SIGNS SHALL HAVE BLOCK NUMBERS, AS ASSIGNED BY THE CITY, WHEN INSTALLED BY CONTRACTOR.

3. MISCELLANEOUS

STREET NAMES SHALL BE APPROVED BY THE PUBLIC WORKS DIRECTOR PRIOR TO THE SIGNS BEING FABRICATED AND INSTALLED.

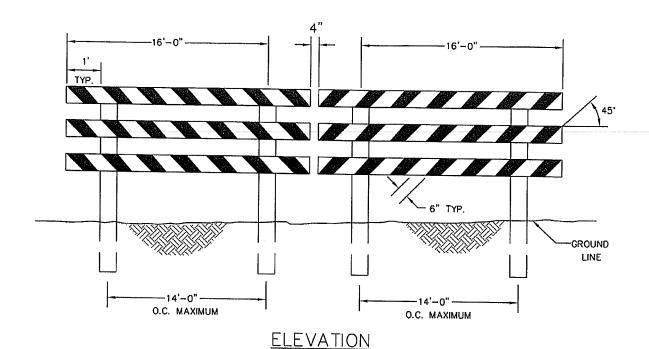


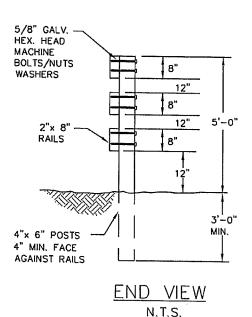
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STREET SIGN AND LETTERING
DETAILS







- 1. RAILS TO BE RETROREFLECTIVE WHITE AND ORANGE STRIPES. POSTS TO BE PRESSURE TREATED.
- 2. SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE OREGON SUPPLEMENT.

3F-1 BARRICADES 6C-8 BARRICADE DESIGN 6C-9 BARRICADE APPLICATION

- 3. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF OREGON STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 4. FOR WIDER APPLICATIONS, MULTIPLE SECTIONS AS SHOWN SHALL BE USED.

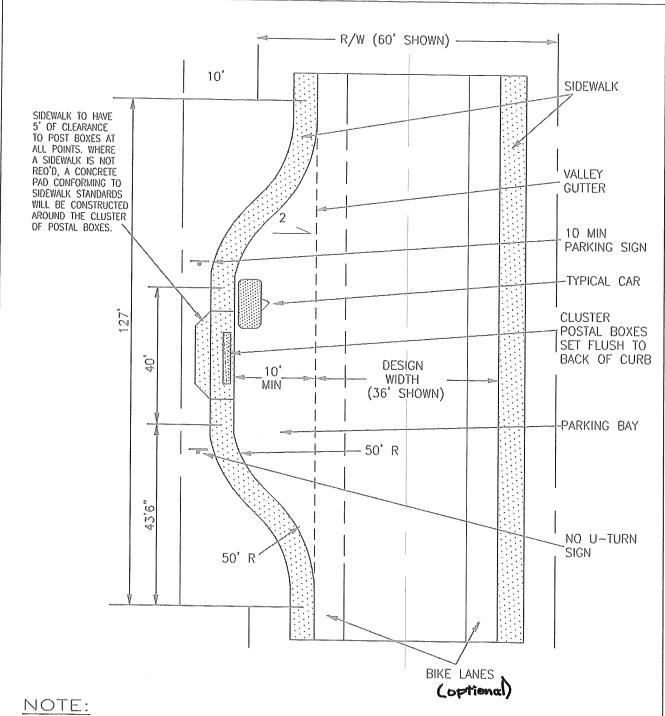
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В Consulting Engineers STANDARD PERMANENT BARRICADE DETAIL

DETAIL NO.

T-501

JAN 2008



PARKING BAY IS REQUIRED ON DESIGNATED COLLECTOR STREETS (AS SHOWN). IT IS ALSO RECOMMENDED FOR LARGE INSTALLATIONS ON LOCAL STREETS.

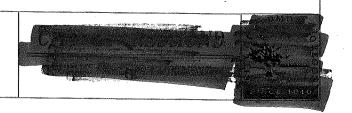
DATE :	SCALE :		
6/30/95	NONE	CLUSTER POSTAL DELIVERY	
DRAWING MO.	APPROVED BY :		
	G.KOLB	BOX PARKING BAY	NON

HORIZ. A VERTICAL ALIGNMENT GUTTER LINE PVC LINE VERTICAL CURVE D VERTICAL TANGENT SECTION WITH APPROACH SLOPE EQUAL TO THE CROSS—SLOPE OF INTERSECTING STREET BUT NOT GREATER THAN +/-"C" SECTION A—A

THRU STREET	STEM STREET	A MIN.	B MIN.	C MAX. SLOPE	D MINIMUM V.C.
LOCAL THRUSTRIAL	LOCAL/HADUSTRIAL	0'	0'	6%	50'
COLLECTOR	LOCAL/HIDUSTRIAL	50'	50'	4%	50'
COLLECTOR	COLLECTOR	100'	100'	3%	100'
ARTERIAL	LOCAL	50'	50'	4%	100'
ARTERIAL	COLLECTOR	100'	100'	2%	125'
ARTERIAL	ARTERIAL	200'	200'	2%	150'

DATE :	SCALE :
6/30/95	NONE
DRAWING NO.	APPROVED BY :
	G.KOLB

"T" INTERSECTION ALIGNMENT STANDARD



SEWER SYSTEM

STANDARD DETAIL DRAWINGS INDEX

CHACLE VENEZUE DETAIL

STATE SHE ANGLOR / TREATER OF WALLET TAIL

COST STATE OF MANY OLD

S 220: STANDARD INSIDE DROP MANHOLE

S 225: STANDARD OUTSIDE DROP MANHOLE

DETAILS.

9 300: STANDARD SERVICE CONNECTION AND LATERAL

S-100: THESAL PIPE CASING DETAIL

*PROFILE OF Typical Sanitary Sewer Maio Installation

* Typical Sewer Service & Cleanout.

* Typical Sewer Service à Cleanout for Duplex on Common Lot Lins



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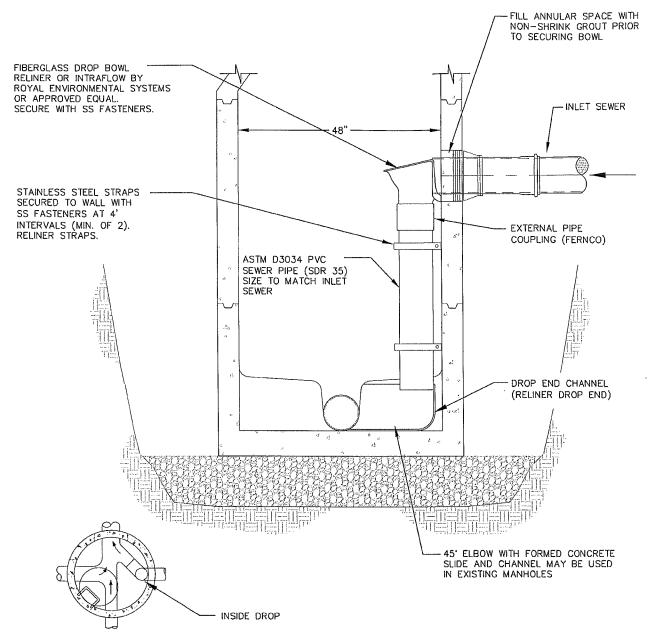


STANDARD DETAIL DRAWING INDEX

DETAIL NO.

S-010

12/11/2007



- 1. DROP MANHOLES SHALL ONLY BE USED WITH PRIOR APPROVAL FROM CITY OF COOS BAY.
- 2. RELINER DROP BOWL, 8" OUTLET (B8) FOR 8" INLET SEWERS. B10 FOR 10" SEWERS. CONSULT CITY ENGINEER FOR LARGER SIZES.
- 3. EXTEND INLET SEWER PIPE 2" INTO MANHOLE. CUT "V" NOTCH IN BOTTOM OF PIPE PROTRUSION, FOLLOW RELINER INSTRUCTIONS.
- 4. INTRAFLOW INSIDE DROP SYSTEM ACCOMODATES 6" TO 12" SEWERS. INTRAFLOW SECTIONS SHALL BE AT LEAST 4" WIDER THAN INLET SEWER. OUTLET ELBOW TO MATCH INLET SEWER SIZE.
- 5. ONLY ONE DROP ASSEMBLY ALLOWED PER MANHOLE.

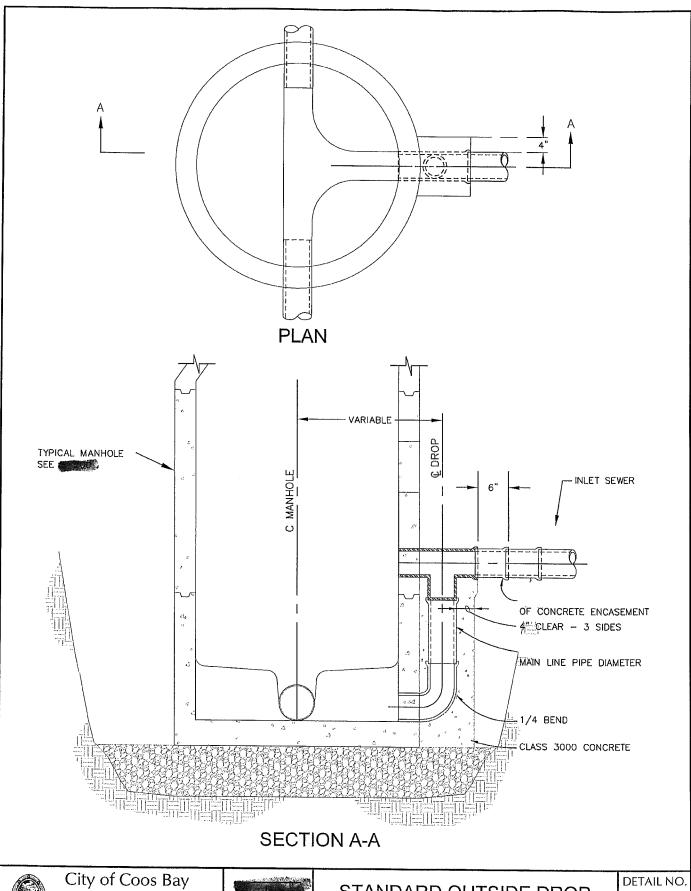


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STANDARD INSIDE DROP MANHOLE DETAIL NO.





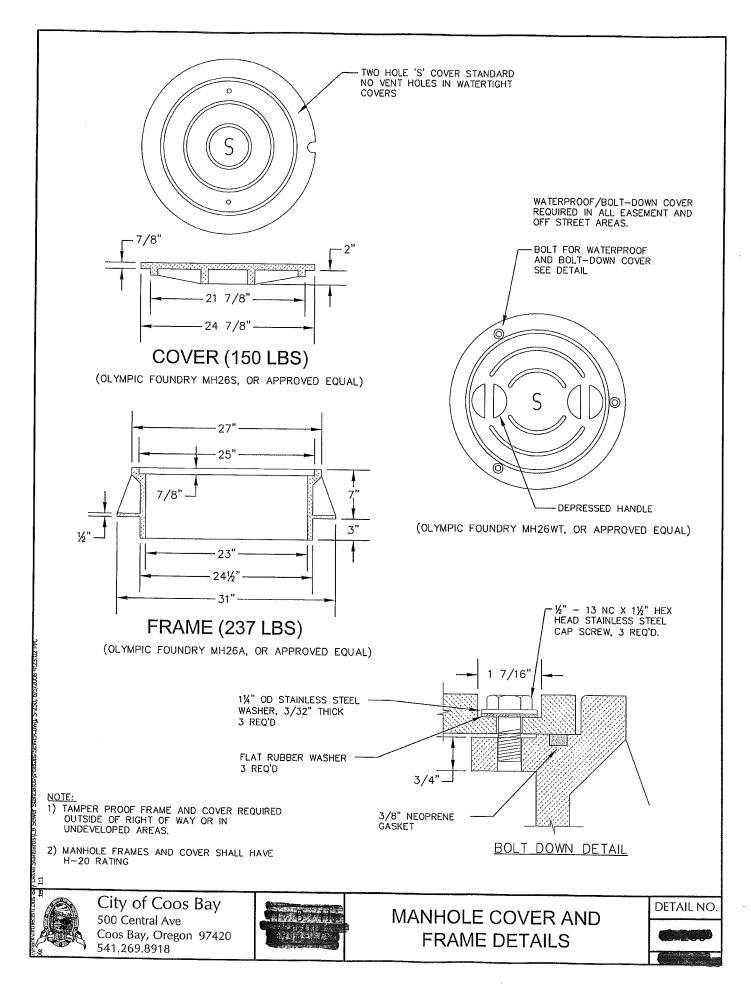


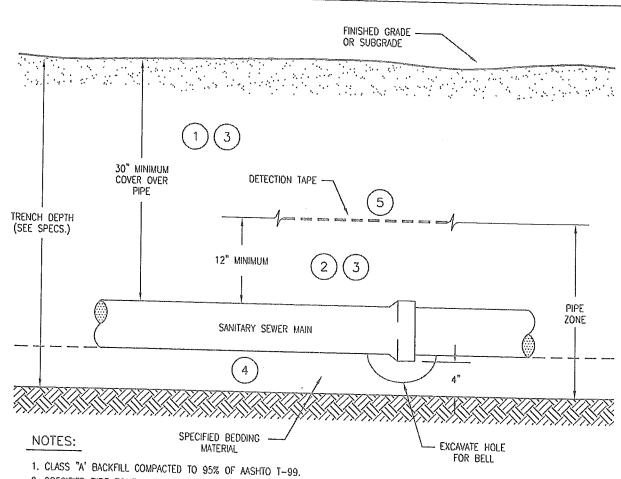
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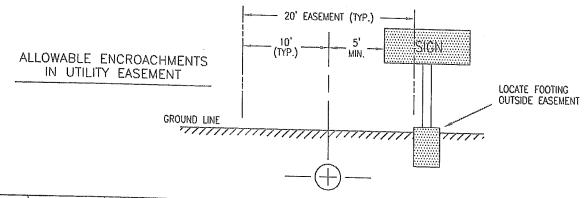
STANDARD OUTSIDE DROP MANHOLE







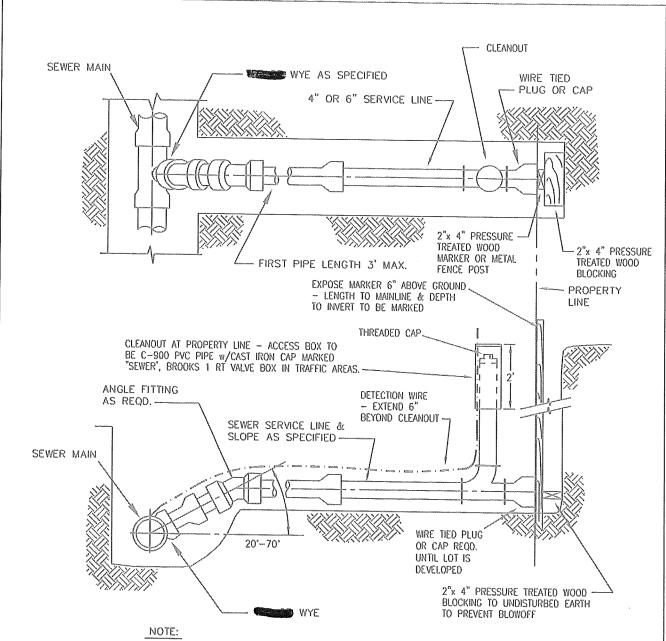
- 2. SPECIFIED PIPE ZONE MATERIAL ABOVE, AROUND, AND BELOW PIPE SHALL BE COMPACTED TO 95% OF AASHTO T-99.
- 3. THE ENGINEER MAY REQUIRE THIS ZONE TO BE WATER SETTLED TO PROVE THE INTEGRITY OF THE BACKFILL.
- 4. PIPE BEDDING SHALL MEET THE REQUIREMENTS OF DIVISION I, PIPE BEDDING SHALL BE MECHANICALLY COMPACTED TO 95% OF MAXIMUM AS DETERMINED BY AASHTO T-99.
- 5. DETECTION TAPE TO BE LOCATED AT TOP OF PIPE ZONE, 12" ABOVE THE PIPE.



DATE : SCALE : 1/6/97 NONE DRAWING NO. APPROVED BY : **G.KOLB**

PROFILE OF TYPICAL SANITARY SEWER MAIN INSTALLATION





MINIMUM SLOPE TO BE 1/4" PER FOOT OR AS APPROVED BY THE CITY ENGINEER. PROVIDE RUBBER RING ADAPTOR FOR CONNECTION TO SERVICE LINE WITH A CONCRETE, CLAY, OR ASBESTOS CEMENT TEE.

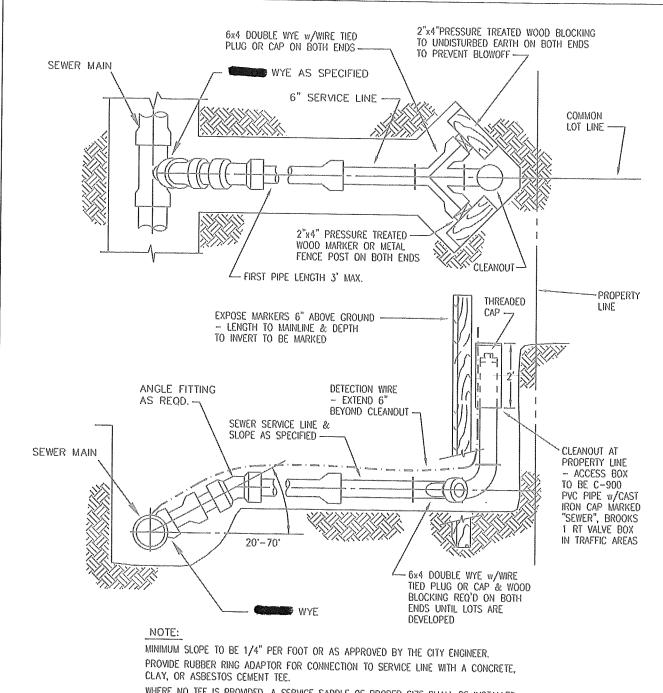
WHERE NO TEE IS PROVIDED, A SERVICE SADDLE OF PROPER SIZE SHALL BE INSTALLED UNDER THE SUPERVISION OF THE CITY.

ALL TRENCH BACKFILL TO CONFORM TO CITY OF COMMON STANDARDS AND SPECIFICATIONS FOR SEWER MAIN. MINIMUM SERVICE TRENCH WOTH IS 24".

ALL SERVICE LINES SHALL END WITH A CLEANOUT AT THE PROPERTY LINE.

SEWER SERVICE LINES SHALL NOT HAVE LESS THAN 3.0' OF COVER UNDER ROADWAY AND 2.0' OF COVER TO NATURAL GROUND IN THE RIGHT OF WAY.

The state of the s	***************************************		
DATE :	SCALE :		
4/22/03	NONE	TYPICAL SEWER	
ORAWING NO.	APPROVED BY :	SERVICE &	
	JSE	CLEANOUT	
The state of the s			S. C.



WHERE NO TEE IS PROVIDED, A SERVICE SADDLE OF PROPER SIZE SHALL BE INSTALLED UNDER THE SUPERVISION OF THE CITY.

ALL TRENCH BACKFILL TO CONFORM TO CITY OF STANDARDS AND SPECIFICATIONS FOR SEWER MAIN. MINIMUM SERVICE TRENCH WIDTH IS 24° .

ALL SERVICE LINES SHALL END WITH A CLEANOUT AT THE PROPERTY LINE.

SEWER SERVICE LINES SHALL NOT HAVE LESS THAN 3.0' OF COVER UNDER ROADWAY AND 2.0' OF COVER TO NATURAL GROUND IN THE RIGHT OF WAY.

DATE: SCALE:

4/22/03 NONE

DRAWING NO. APPROVED BY:

JSE

TYPICAL SEWER SERVICE & CLEANOUT FOR DUPLEX ON COMMON LOT LINE



STORM DRAINAGE

STANDARD DETAIL DRAWINGS INDEX

U-050 STANDARD UTILITY LOCATIONS

0 105 STREET CUTSTANDARD DETAIL

0 150 RIPE ANGHOR A TRENCHICUT-OFF WALL DETAIL

D-200 STANDARD MANHOLE

D-201: POLLUTION CONTROL MANHOLE

D-205 - FLAT-TOP: MANHOLE

DE MANHOLE BASE STANDARD DETAILS

D-220: STANDARD INSIDE DROP MANHOLE W/ DEFLECTION PLATE

D-250: MANHOLE COVER AND FRAME DETAILS MAN HOLE COVER &

D-260: MANUALE FRAME GRADE ADJUSTMENT

FRAME DETAILS

D-300: STANDARD INLETS, FRAMES & GRATES

D-201: TRAPPED/POLLUTION CONTROL CATCH BASIN

D-302: DITCH INLET

D 303: AREA DRAIN INLET

₱-304: HEADWALL WITH TIDEGATE

PROFILE OF TYPICAL SANITARY DEWSE MOIN

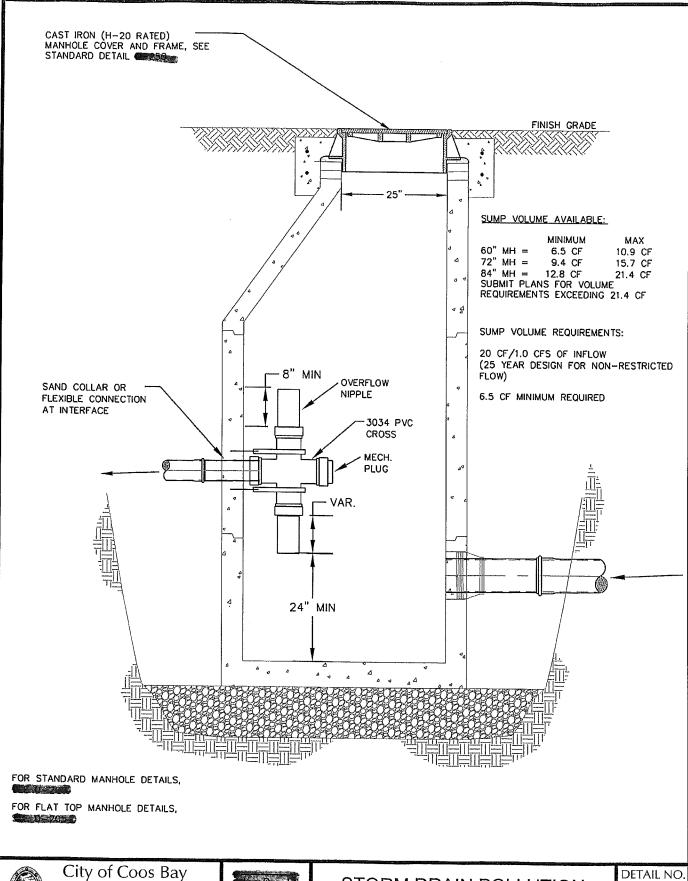


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STANDARD DETAIL DRAWING INDEX





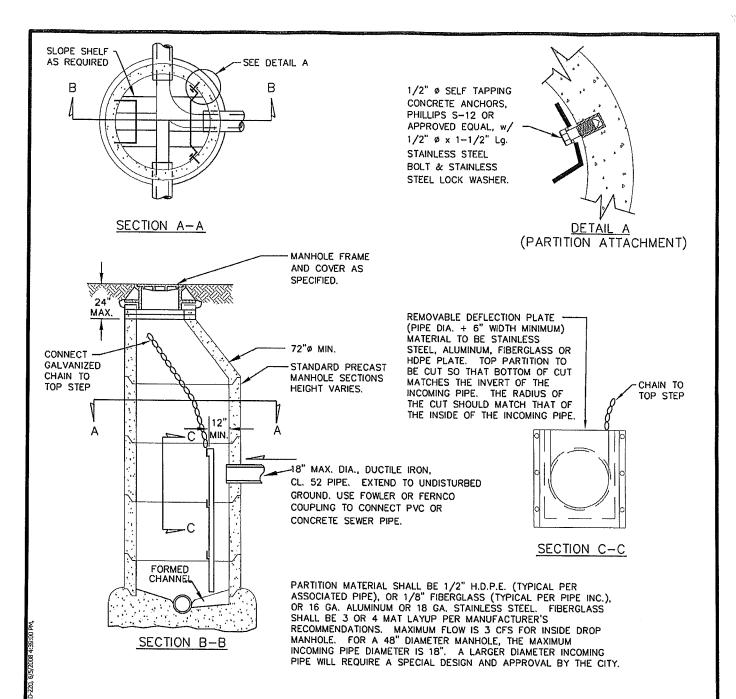


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STORM DRAIN POLLUTION CONTROL MANHOLE





- 1. INSIDE DROP MANHOLES WITH DEFLECTION PLATE SHALL ONLY BE USED WITH PRIOR APPROVAL FROM CITY.
- 2. ONLY ONE DROP ASSEMBLY ALLOWED PER MANHOLE.



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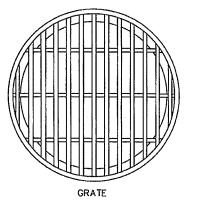
H B H
Consulting
Engineers

STANDARD INSIDE DROP M.H.
W/ DEFLECTION PLATE

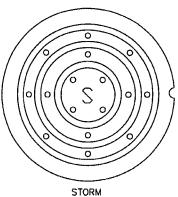
DETAIL NO

D-220

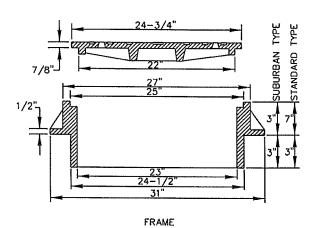
JAN. 2008



(OLYMPIC FOUNDRY #MH26G, OR APPROVED EQUAL)



(OLYMPIC FOUNDRY #MH26P OR APPROVED EQUAL)



(OLYMPIC FOUNDRY #MH26A, OR APPROVED EQUAL)

- 1. USE SUBURBAN TYPE ONLY IN NON-TRAFFIC AREAS, AND ONLY WITH APPROVAL BY THE CITY.
- 2. COVER AND FRAME SHALL BE GRAY CAST IRON ASTM A-48 CLASS 30.
- 3. COVER AND FRAME TO BE MACHINED TO A TRUE BEARING ALL AROUND.
- 4. NOTCH LID FOR LIFTING HOOK.
- 5. OPEN GRATES REQUIRE APPROVAL BY CITY, AND MUST BE BICYCLE SAFE IF USED IN TRAFFIC AREAS.

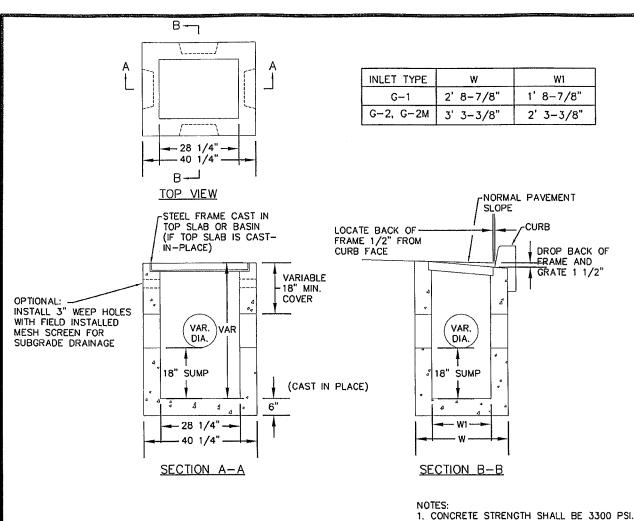


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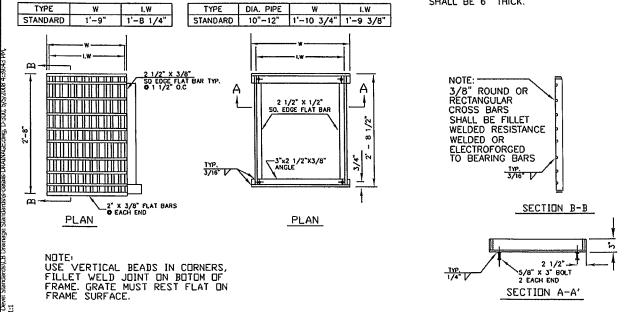


MANHOLE COVER AND FRAME DETAILS





- 2. PRECAST BASE WALLS SHALL BE A MINIMUM 4" THICK. CAST-IN-PLACE BASE WALLS SHALL BE 6" THICK.



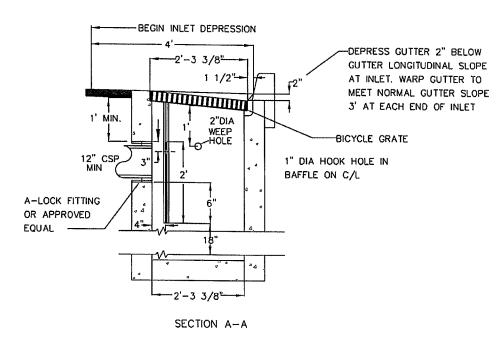


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STANDARD INLETS, FRAMES & GRATES



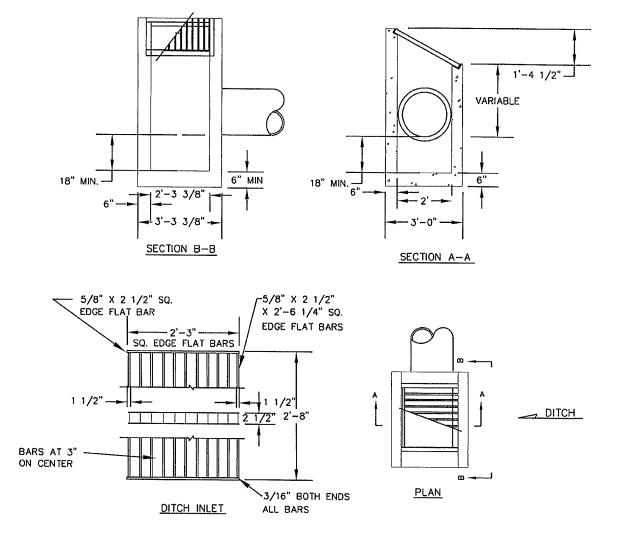


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TRAPPED/POLLUTION CONTROL CATCH BASIN





- 1. CONCRETE STRENGTH SHALL BE 3300 PSI.
- CATCH BASIN, FRAME, AND GRATES SHALL MEET H20 LOADING.
- 3. INSIDE FRAME DIMENSIONS: 2'-3 3/8", 2'-8 1/2".
- 4. 3/8" CROSS BARS SHALL BE FLUSH WITH THE GRATE SURFACE AND MAY BE FILLET WELDED, RESISTANCE WELDED OR ELECTROFORGED TO BEARING BARS.
- 5. DITCH INLET CATCH BASINS SHALL MEET THE REQUIREMENTS OF ODOT DITCH INLET TYPE "D"

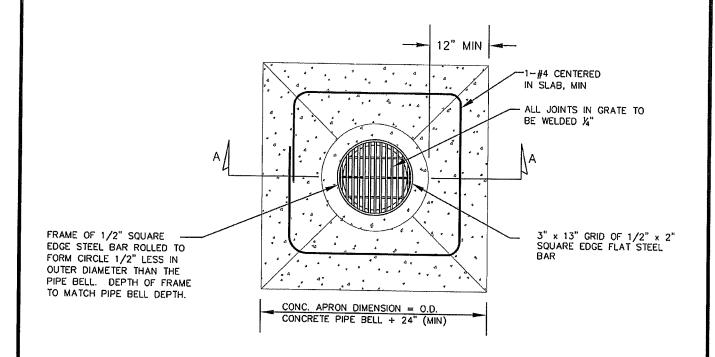


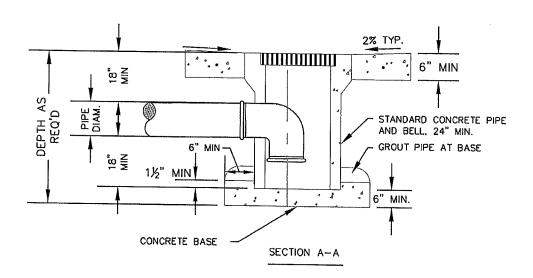
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TYPICAL DITCH INLET AND GRATE







- 1. GRATES SHALL BE CONSTRUCTED FOR BICYCLE SAFETY.
- 2. PRECAST CONCRETE CATCH BASINS MAY BE USED FOR AREA DRAINS WHEN APPROVED BY THE CITY.
- 3. NOT FOR USE IN VEHICULAR TRAFFIC AREAS.

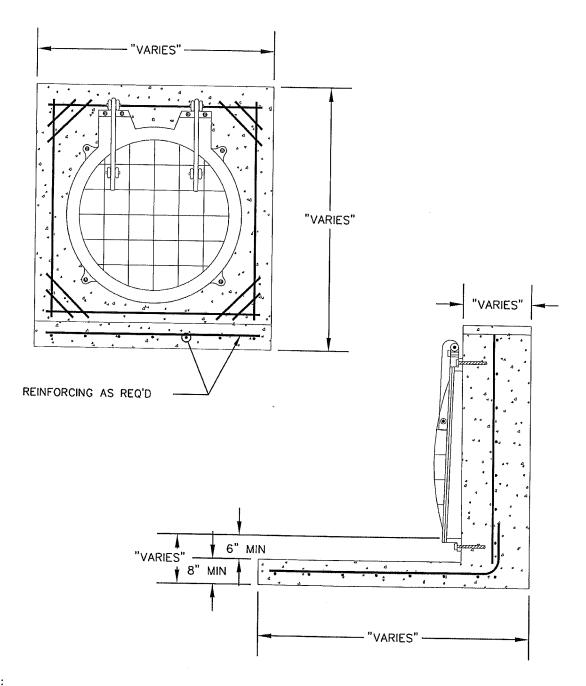


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TYPICAL AREA DRAIN INLET

DETAIL NO.



- 1) OUTFALL HEADWALL SHOWN FOR CLARITY ONLY ALL OUTFALLS SHALL BE SITE SPECIFIC AND SHALL CONFORM TO THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- 2) OUTFALL SHALL BE ABOVE THE MEAN LOW WATER LEVEL EXCEPT AS APPROVED BY CITY ENGINEER. INSTALLATION OF TIDEGATE MAY BE REQUIRED WHEN OUTFALL IS IN A TAILWATER CONDITION.
- 3) ALL TIDEGATES, FLAPGATES OR OTHER OUTLET GATES INSTALLED ON SPECIFIC OUTFALLS SHALL MEET THE REQUIREMENTS OF ODFW, NOAA AND OTHER AGENCIES AS REQUIRED.
- 4) CONCRETE STRENGTH SHALL BE 3,300 PSI AFTER 28 DAYS.
- 5) PROVIDE REINFORCING AS REQUIRED.



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HEADWALL WITH TIDEGATE

