APPENDIX 2 STANDARD DRAWING SHEETS

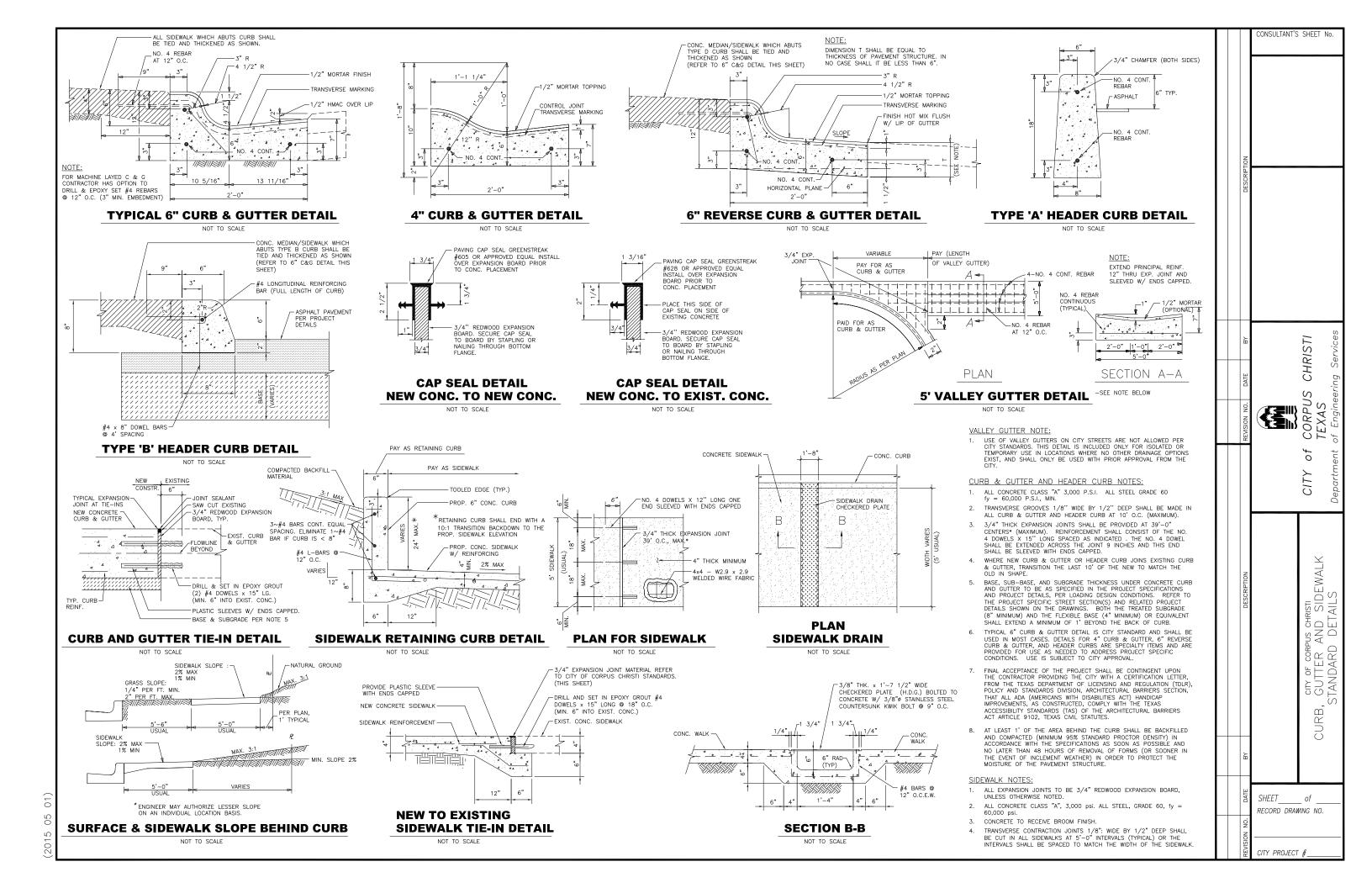
PROJECT LOCATION PHYSICAL ADDRESS CORPUS CHRISTI, TEXAS San Patricio County CALL BEFORE YOU DIG! PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, BUILT, OR BLAST - STOP AND CALL 811 THE LONE STAR NOTIFICATION COMPANY AT 1-800-669-8344	CONSULTANT'S SHEET PROJECT NO.
NUECES BAY NUECES BAY NUECES BAY NUECES BAY CORPUS CHRISTI BAY CORPUS CHRISTI BAY	DATE BY DESCRIPTION CHRISTI ring Services
THE 2444 THE 24	CITY of CORPUS TEXAS
PLANS FOR PROJECT NAME VICINITY MAP PROJECT #	DESCRIPTION TITLE SHEET
PREPARED BY [CONSULTANT'S NAME, ADDRESS, AND PHONE] RELEASED FOR CONSTRUCTION: Director of Engineering Services Date	SHEET of

.

CONSULTANT'S SHEET PROJECT NO. CHRISTI of CITY SHEET TITLE SHEET . of . RECORD DRAWING NO. CITY PROJECT #_

CONSULTANT'S INFO. CORPUS CHRISTI of CITY SHEET ____ of ___.

CITY PROJECT #

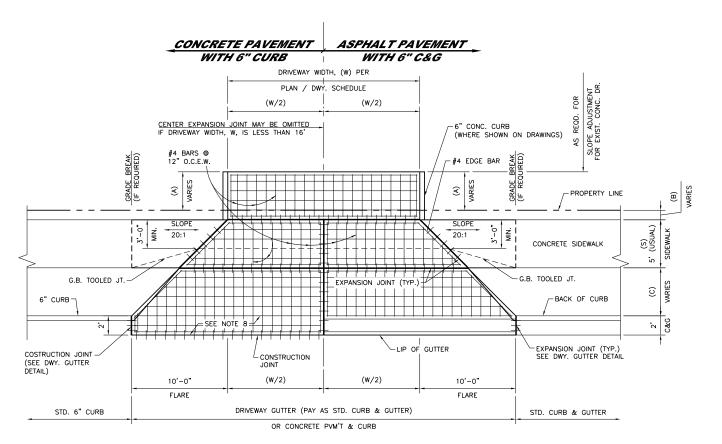


_CONCRETE PAVEMENT | ASPHALT PAVEMENT WITH 6" CURB WITH 6" C&G DRIVEWAY WIDTH, (W) PER PLAN / DWY. SCHEDULE CENTER EXPANSION JOINT MAY BE OMITTED IF DRIVEWAY WIDTH, W, IS LESS THAN 16' - 6" CONC. CURB WHERE SHOWN ON PLANS (CIEED) #4 BARS @ 12" O.C.E.W. BREAK QUIRED) -EXPANSION JOINT (TYP.) SEE STD. SIDEWALK DETAIL · #4 EDGE € - PROPERTY LINE CONCRETE SIDEWALK CONCRETE SIDEWALK SLOPE 6 SLOPE ₹ -20:1 (TIED) 20:1 G.B. TOOLED JT FACE OF CURB ∠ SEE NOTE 8 – PERMISSIBLE CONSTRUCTION EXPANSION JOINT (TYP) SEE DWY. GUTTER DETAIL CONSTRUCTION JOINT - CONSTRUCTION (SEE DWY. GUTTER DETAIL) LIP OF GUT JOINT 4'-0" (W/2)(W/2)FADE-OUT CURB FLARE FLARE FADE-OUT CURB DRIVEWAY GUTTER (PAY AS STD. CURB & GUTTER) STD. 6" CURB STD. CURB & GUTTER OR CONCRETE PVM'T & CURB

PLAN

DRIVEWAY WITH TIED SIDEWALK

NOT TO SCALE



PLAN
DRIVEWAY WITH DETACHED SIDEWALK

NOT TO SCALE

		SUN	MARY OF CO	NCRETE DRIVE	EWAYS		
STATION	WIDTH 'W' (FT.)	DIMENSION 'C' (FT.)	DIMENSION 'S'	DIMENSION 'B' (FT.)	DIMENSION 'A' (FT.)	DRIVEWAY (CONCRETE) (SY)	DRIVEWAY (CONCRETE) (PRIVATE) (SY)
TOTALS	+						

DRIVEWAY NOTES:

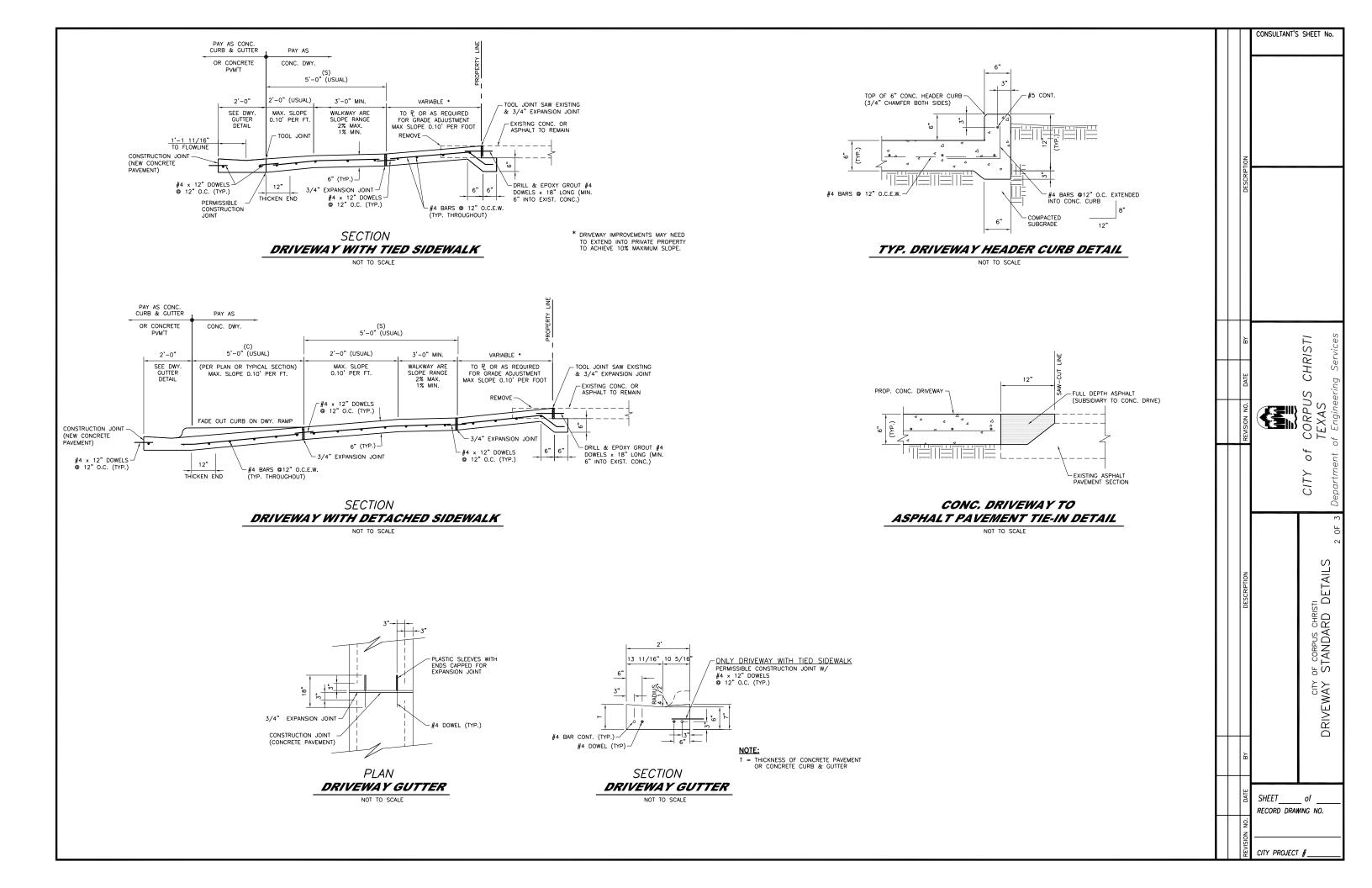
- 1. GRADES FOR WALKWAY AREAS WITHIN DRIVEWAYS SHALL NOT EXCEED 20:1 ALONG THE DIRECTION OF PEDESTRIAN TRAVEL, LONGITUDINAL, EITHER WITHIN THE DRIVEWAY OR AT THE SIDEWALK APPROACHES ABUTING THE DRIVEWAY, CROSS-SLOPE, TRANSVERSE SLOPE, OF WALKWAY SHALL NOT EXCEED 50:1.
- DRIVEWAY SLOPE SHALL NOT EXCEED 10:1, EXCEPT UNDER SPECIAL CIRCUMSTANCES, IF AUTHORIZED BY THE ENGINEER.
- CONCRETE FOR DRIVEWAYS SHALL BE CLASS "A" AND HAVE A MINIMUM THICKNESS OF 6 INCHES.
- 4. RE-BAR SHALL BE GRADE 60, WITH A MAXIMUM SPACING OF 12"
 C-C AND ADDITIONAL DIAGONAL BARS AS SHOWN.
- 5. EXPANSION JOINTS SHALL BE OF 3/4" REDWOOD EXPANSION BOARD AND DOWELS SHALL BE GREASED, 12 INCHES LONG, SMOOTH #4 BARS WITH ONE END BEING FELT WRAPPED. CONTINUOUS BARS SHALL NOT EXTEND THROUGH THE EXPANSION JOINT, BUT SHALL TYPICALLY STOP 3 INCHES CLEAR OF EXPANSION JOINT.
- MIDDLE EXPANSION JOINT SHALL BE USED, IF THE DRIVEWAY WIDTH, W, IS 16 FEET OR WIDER. THE EXPANSION JOINT SHALL EXTEND FROM THE BACK OF WALKWAY TO THE LIP OF CURB.
- 7. FINAL ACCEPTANCE OF THE PROJECT SHALL BE CONTINGENT UPON THE CONTRACTOR PROVIDING THE CITY WITH A CERTIFICATION LETTER FROM THE TEXAS DEPARTMENT OF LICENSING AND REGULATION (TOLR), POLICY AND STANDARDS DIVISION, ARCHITECTURAL BARRIERS SECTION, THAT ALL ADA (AMERICANS WITH DISABILITIES ACT) HANDICAP IMPROVEMENTS, AS CONSTRUCTED, COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT ARTICLE 9102, TEXAS CIVIL STATUTES.
- 8. THE 2' CUTOUT DOES NOT APPLY TO NEW DRIVEWAYS CONSTRUCTED ON EXISTING CONCRETE ROADWAYS. CONTRACTOR SHALL DRILL AND EPOXY #4 x 12" DOWELS @ 12" O.C. TO CONNECT DRIVEWAY TO EXISTING CONCRETE ROADWAY.

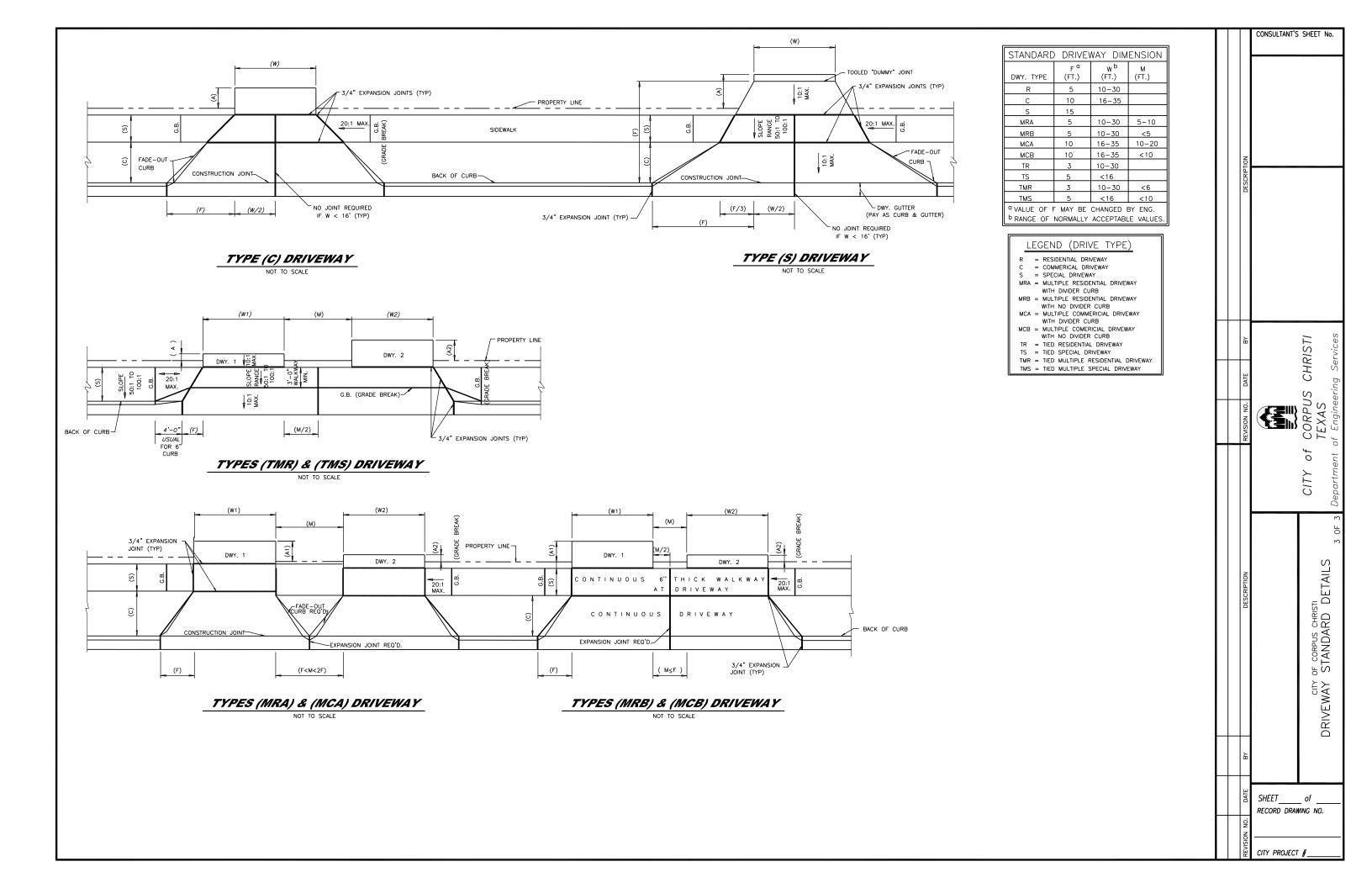
SPECIAL NOTE:

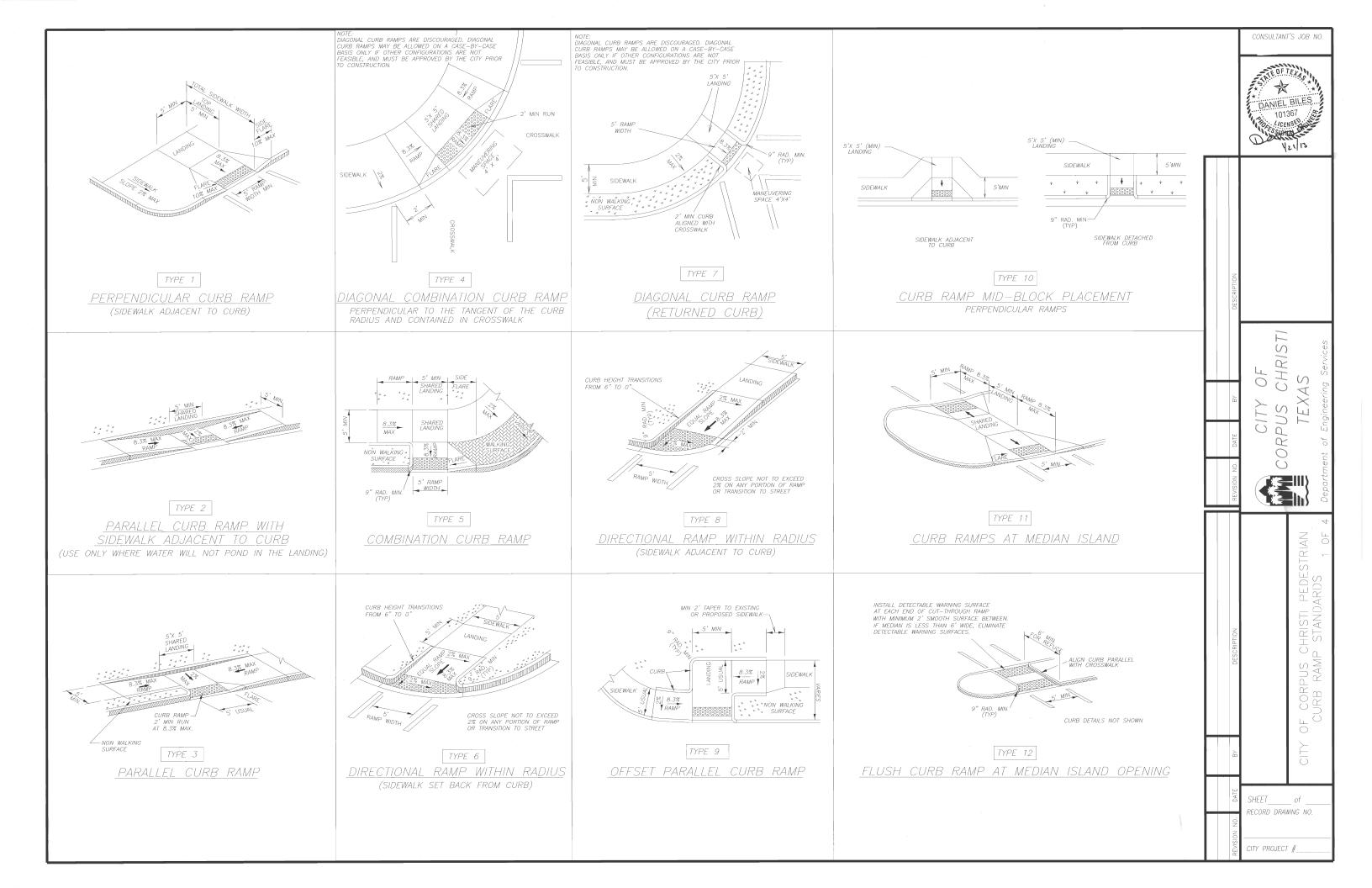
THE EXACT TYPE OF DRIVEWAY TO BE DETERMINED BY THE ENGINEER, BASED ON EXIST. CONDITIONS.

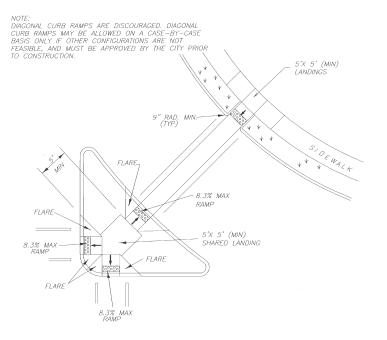
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	REVISION NO.	CORPUS TEXAS
		CITY of CORPUS CHRISTI TEXAS 1 or 3 Department of Engineering Services
	DESCRIPTION	CITY OF CORPUS CHRISTI DRIVEWAY STANDARD DETAILS 1 OF 3
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	. DATE	SHEET of RECORD DRAWING NO.
	REVISION NO.	CITY PROJECT #

CONSULTANT'S SHEET No.



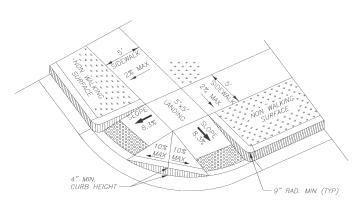






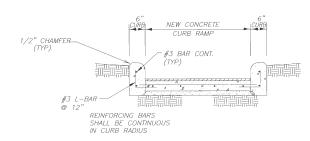
TYPE 13

AT INTERSECTION W/FREE RIGHT TURN & ISLAND COMBINATION ISLAND RAMPS



TYPE 14

PERPENDICULAR CURB RAMPS (BI-DIRECTIONAL) (SIDEWALK SET BACK FROM CURB)



HEADER CURBS AT CURB RAMP

URGRADE PREPARATION:

 SUBGRADE UNDER CONCRETE SIDEWALKS AND CURB RAMPS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.

SIDEWALK NOTES:

- 1. THE MINIMUM SIDEWALK WIDTH FOR ALL ARTERIAL AND COLLECTOR STREETS IS 5'. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 4' SIDEWALK MAY BE PROVIDED. 5'X5' PASSING AREAS SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200' FOR ALL SIDEWALKS LESS THAN 5' IN WIDTH.
- 2. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK
- 3. ALL EXPANSION JOINTS TO BE 3/4" THICK WOOD FIBER ASPHALT—IMPREGNATED EXPANSION BOARD, UNLESS OTHERWISE NOTED.
- 4. ALL CONCRETE TO BE CLASS 'A' f'c=3,000 PSI. ALL REINFORCING STEEL TO BE GRADE 60, fy=60,000 PSI.
- 5. SIDEWALKS SHALL BE AT LEAST 4" THICK CONCRETE.
- 6. CONCRETE SURFACE TO RECEIVE BROOM FINISH.
- 7. TRANSVERSE CONTRACTION JOINTS 1/8" WIDE BY 1/2" DEEP SHALL BE CUT IN ALL SIDEWALKS AT 5'-0" INTERVALS (MAXIMUM).
- 8. PROVIDE PEDESTRIAN ACCESSIBLE ROUTE WITH DETECTABLE WARNING SURFACE FOR SIDEWALKS THAT INTERSECT CONTROLLED DRIVEWAYS. DETECTABLE WARNING SURFACE SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE ACCESSIBLE ROUTE WHERE IT INTERSECTS THE CONTROLLED DRIVEWAY.

CURB RAMP NOTES:

- . PROVIDE CURB RAMPS WHEREVER AN ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
- 2. <u>SLOPE CRITERIA2</u>

RAMPS AND LANDING AREAS

| MAX SLOPE (V:H, %, IN PER FT)
RAMP IN DIRECTION OF TRAVEL	1:12 / 8.03% / 1" PER FT
SIDE SLOPE OF RAMP (FLARE)	1:10 / 10% / 1.2" PER FT
CROSS SLOPE OF RAMP	1:50 / 2% / 0.24" PER FT
LANDING AREA (ALL DIRECTIONS)	1:50 / 2% / 0.24" PER FT

ADJOINING AREAS

SIDEWALK IN DIRECTION OF TRAVEL

SIDEWALK CROSS SLOPE

GUTTER IN DIRECTION OF TRAVEL

1:20 / 5% / 0.60" PER FT

1:20 / 5% / 0.60" PER FT

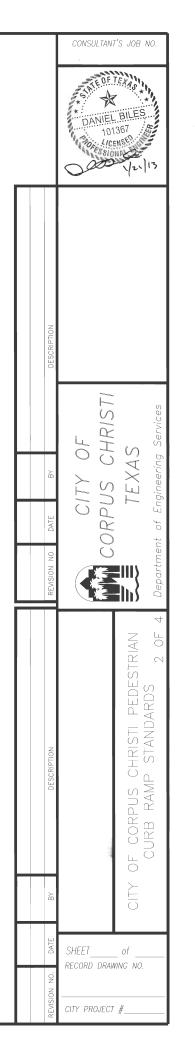
- A SMOOTH TRANSITION (S≤1:50) IN DIRECTION OF TRAVEL IS REQUIRED WHERE RAMPS TRANSITION TO THE STREET
- 3. PROVIDE FLARED SIDES WHERE THE PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES SHALL BE SLOPED AT 10% MAXIMUM, MEASURED PARALLEL TO THE CURB RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTED, SUBSTANTIALLY OBSTRUCTED, OR OTHERWISE PROTECTED.
- 4. LANDINGS SHALL BE 5'X5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
- 5. CURB RAMP MUST BE WHOLLY CONTAINED WITHIN CROSSWALK MARKINGS, EXCLUDING SIDE FLARES.

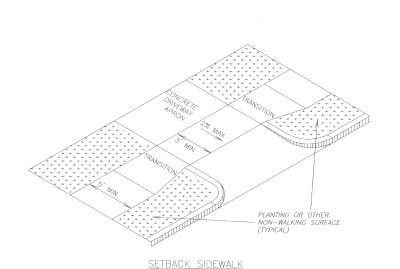
CURB RAMP NOTES (CONTINUED):

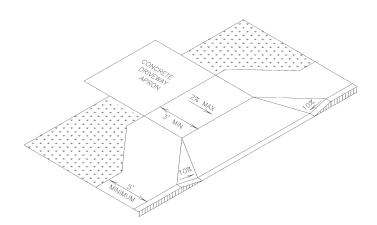
- 6. CURB RAMPS, FLARES AND LANDINGS SHALL BE AT LEAST 5" THICK CÖNCRETE AND EXPANSION JOINTS SHALL TYPICALLY BE USED AT MATCHLINE WITH ADJOINING AREAS.
- 7. MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4'X4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
- 8. LAYBACK CURB AND GUTTER MAY BE CONSTRUCTED MONOLITHICALLY WITH CURB RAMPS. PROVIDE NO. 4 X 12" LONG SMOOTH DOWELS @ 12" ON CENTERS IF NOT PLACED MONOLITHICALLY.
- 9. PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET. 5% MAXIMUM SLOPE IN GUTTER.
- 10. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC §68.102.
- 11. DIAGONAL CURB RAMPS ARE DISCOURAGED. DIAGONAL CURB RAMPS MAY BE ALLOWED ON A CASE—BY—CASE BASIS ONLY IF OTHER CONFIGURATIONS ARE NOT FEASIBLE, AND MUST BE APPROVED BY THE CITY PRIOR TO CONSTRUCTION.
- 12. FINAL ACCEPTANCE OF THE PROJECT SHALL BE CONTINGENT UPON THE CONTRACTOR PROVIDING THE CITY WITH A FINAL INSPECTION REPORT FROM A CERTIFIED REGISTERED ACCESSIBILITY SPECIALIST (RAS) PER 16 TAC §68.52 STATING THAT ALL ADA (AMERICANS WITH DISABILITIES ACT) HANDICAP IMPROVEMENTS, AS CONSTRUCTED, COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS) FOR ELIMINATION OF ARCHITECTURAL BARRIERS PER TEXAS GOVERNMENT CODE CHAPTER 469.

DETECTABLE WARNING SURFACE NOTES:

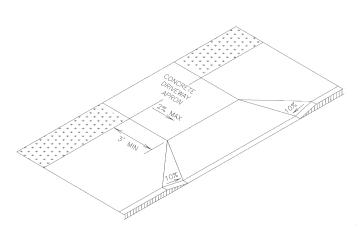
- 1. CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 705 OF THE TAS. THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES INCLUDING SIDE FLARES.
- 2. DETECTABLE WARNING SURFACE FOR RAMPS SHALL BE ADA SOLUTIONS, INC. PART NO. 2460REP CAST—IN—PLACE REPLACEABLE TACTILE WARNING SURFACE TILES TRUNCATED DOME, OR APPROVED EQUIVALENT, IN "BRICK RED" COLOR.
- 3. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
- 4. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
- 5. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 10" FROM THE EXTENSION OF THE FACE OF CURB. DETECTABLE WARNING SURFACES TO BE CURVED ALONG THE CORNER RADIUS.



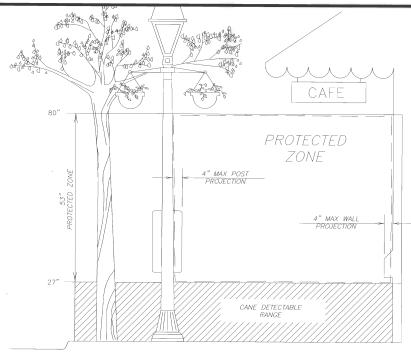




APRON OFFSET SIDEWALK

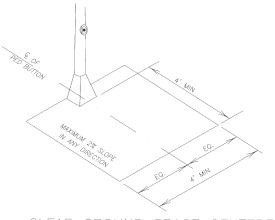


WIDE SIDEWALK SIDEWALK TREATMENT AT DRIVEWAYS

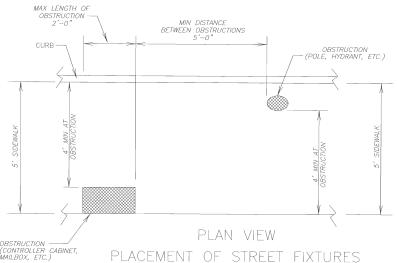


PROTECTED ZONE

IN PEDESTRIAN CIRCULATION AREA, MAXIMUM 4" PROJECTION FOR POST OR WALL MOUNTED OBJECTS BETWEEN 27"AND 80" ABOVE THE SURFACE.



CLEAR GROUND SPACE CENTERED AT PEDESTRIAN PUSH BUTTON

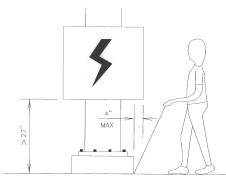


PLACEMENT OF STREET FIXTURES

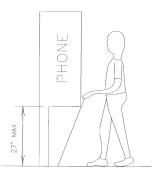
(ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' X 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.)

GENERAL NOTES

- 1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED.
- PLACE TRAFFIC SIGNAL OR ILLUMINATION POLES, GROUND BOXES, CONTROLLER BOXES, SIGNS, DRAINAGE FACILITIES AND OTHER ITEMS SO AS NOT TO OBSTRUCT THE ACCESSIBLE ROUTE OR CLEAR GROUND SPACE.
- 3. THE MAXIMUM ALLOWABLE SIDEWALK CROSS SLOPE EQUALS 2%.
- 4. STREET GRADES AND CROSS SLOPES SHALL BE AS SHOWN ELSEWHERE IN THE
- 5. EXISTING FEATURES THAT COMPLY WITH TAS MAY REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS.
- 6. CHANGES IN LEVEL GREATER THAN 4 INCH ARE NOT PERMITTED.
- THE LEAST POSSIBLE GRADE SHOULD BE USED TO MAXIMIZE ACCESSIBILITY. THE RUNNING SLOPE OF SIDEWALKS AND CROSSWALKS, WITHIN THE PUBLIC RIGHT—OF—WAY, MAY FOLLOW THE GRADE OF THE PARALLEL ROADWAY. WHERE A CONTINUOUS GRADE GREATER THAN 5% MUST BE PROVIDED, HANDRAILS MAY BE DESIRABLE ON ONE OR BOTH SIDES OF THE SIDEWALK TO IMPROVE ACCESSIBILITY. HANDRAILS MAY ALSO BE NEEDED TO PROTECT PEDESTRIANS FROM POTENTIALLY HAZARDOUS CONDITIONS. IF PROVIDED, HANDRAILS MUST COMPLY WITH TAS 4.8.5.
- 8. HANDRAIL EXTENSIONS SHALL NOT PROTRUDE INTO THE USABLE LANDING AREA OR INTO INTERSECTING PEDESTRIAN ROUTES.
- 9. SIDEWALK DETAILS ARE SHOWN ELSEWHERE IN THE PLANS.



WHEN AN OBSTRUCTION OF A HEIGHT GREATER THAN 27" FROM THE SURFACE WOULD CREATE A PROTRUSION OF MORE THAN 4" INTO THE PEDESTRIAN CIRCULATION AREA, CONSTRUCT ADDITIONAL CURB OR FOUNDATION AT THE BOTTOM TO PROVIDE A MAXIMUM 4" OVERHANG.



PROTRUDING OBJECTS OF A HEIGHT < 27" ARE DETECTABLE BY CANE AND DO NOT REQUIRE ADDITIONAL TREATMENT.

DETECTION BARRIER FOR VERTICAL CLEARANCE <80'

 \mathcal{O} CHRI $\overline{\bigcirc}$ PUS OR \bigcirc 9 SHEET RECORD DRAWING NO. CITY PROJECT #6485

CONSULTANT'S JOB NO.

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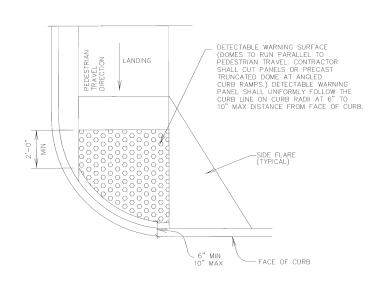
DANIEL BILES

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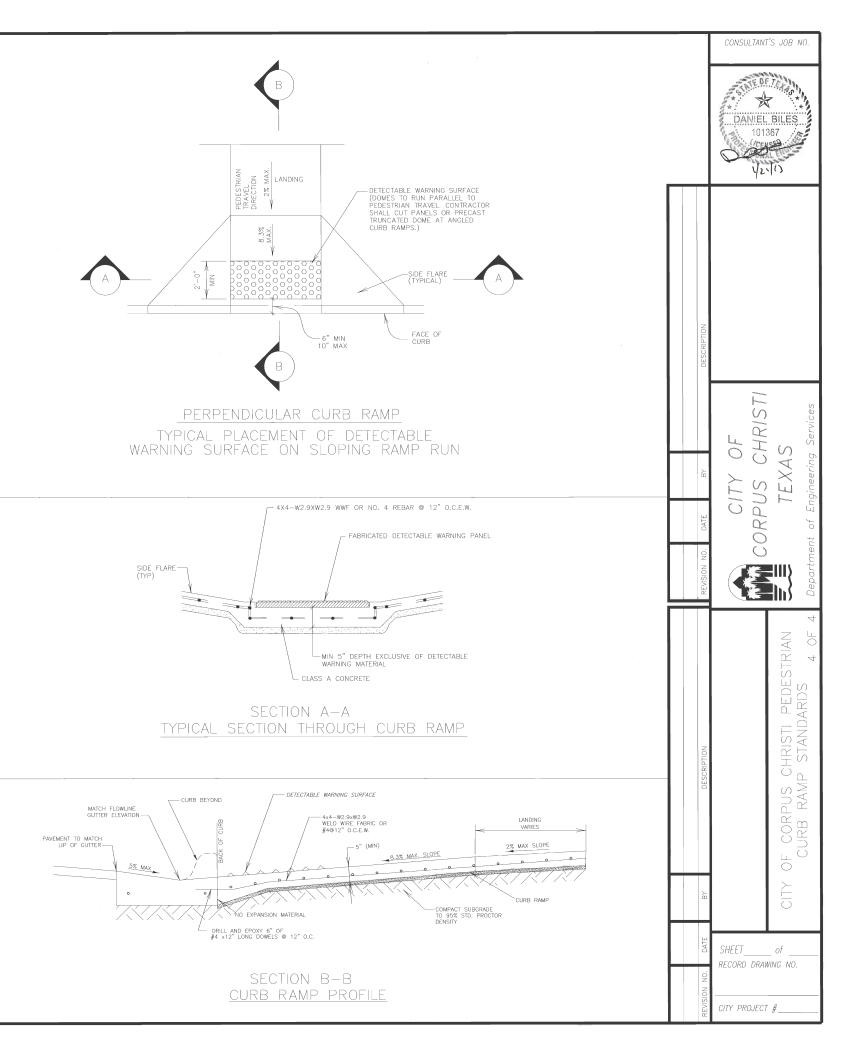
PARALLEL CURB RAMP

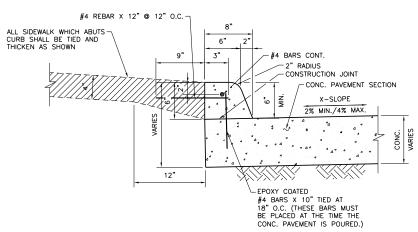
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE



DIRECTIONAL CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE
WARNING SURFACE ON SLOPING RAMP RUN
AT A RADIUS



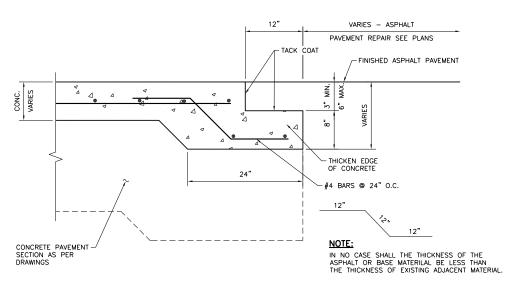


6" CURB NOTES:

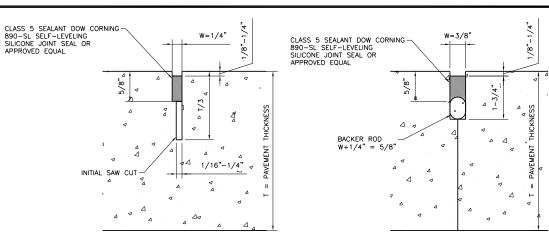
- EXPANSION AND CONSTRUCTION JOINTS OF THE 6"
 SEPARATE CURB SHALL MATCH THOSE OF THE TIED
 SIDEWALK AND/OR CONCRETE PAVEMENT, AND SHALL NOT EXCEED 39' O.C. (MAX) SPACING.
- TRANSVERSE GROOVES 1/8" WIDE BY 1/2" DEEP SHALL BE MADE AT 10' O.C. (MAXIMUM).
- WHERE NEW CURB JOINS EXISTING CURB AND GUTTER, TRANSITION THE LAST 10' OF THE NEW TO MATCH THE OLD IN SHAPE.
- 4. EXPANSION JOINTS ON ALL SIDEWALK AND CURB SHALL BE REDWOOD. ALL JOINTS IN 6" SEPARATE CURB SHALL BE SEALED WITH JOINT SEALANT.
- 5. TRANSVERSE CONTRACTION JOINTS 1/8": WIDE BY 1/2" DEEP SHALL BE CUT IN ALL SIDEWALKS AT 5'-0" INTERVALS (MAXIMUM).

TYPICAL 6" CURB DETAIL

NOT TO SCALE

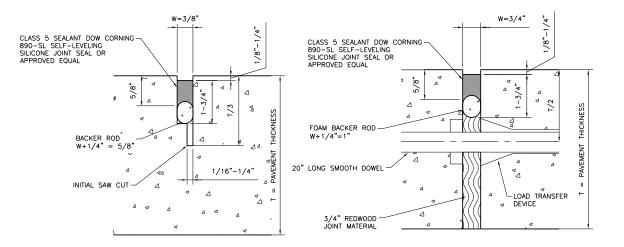


CONCRETE TO ASPHALT PAVEMENT SECTION TIE-IN DETAIL



SAWED LONGITUDINAL JOINT

LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT



TRANSVERSE SAWED CONTRACTION JOINT

EXPANSION JOINT

JOINT SEALANT COMPOUND

NOT TO SCALE

GENERAL NOTES:

- 1. THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE DRAWINGS.
- THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE DRAWINGS
 THE JOINT RESERVOIR FOR SEALANT SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION AND THE TWO SAWED JOINTS.

 THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE SEALANT MANUFACTURE'S RECOMMENDATION. PRIOR TO BEGINNING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A STATEMENT FROM THE SEALANT MANUFACTURER SHOWING THE RECOMMENDED EQUIPMENT AND INSTALLATION PROCEDURES TO BE USED.
- 4. THE SAW CUT FOR THE LONGITUDINAL JOINT SHALL BE ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.

CONCRETE PAVEMENT STANDARD DETAILS SHEET of RECORD DRAWING NO. CITY PROJECT

CONSULTANT'S SHEET No.

CHRISTI

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CITY

WATER DISTRIBUTION SYSTEM GENERAL NOTES

- PROPOSED WATER DISTRUBUTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CORPUS CHRISTI WATER DIVISION DISTRIBUTION SYSTEM STANDARDS.
- 2. THE CITY RESERVES THE RIGHT TO ACCEPT THE SYSTEM FOR OPERATION AT ANY TIME, BUT THE DATE OF OFFICIAL ACCEPTANCE OF THE SYSTEM WILL BE UPON COMPLETION OF THE PROJECT AND SATISFACTORY TEST RESULTS
- 3. THE EXISTING SYSTEM SHALL REMAIN IN SERVICE UNTIL THE PROPOSED SYSTEM IS PUT INTO SERVICE. THE CONTRACTOR SHALL PROTECT THE EXISTING SYSTEM UNTIL IT IS TAKEN OUT OF SERVICE.
- 4. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO INSTALL THE PROPOSED SYSTEM.
- 5. TESTING OF LINES (STERILIZATION AND PRESSURED) SHALL BE DONE BY THE CONTRACTOR UNDER THE SUPERVISION OF THE WATER DIVISION. WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF CORPUS CHRISTI THROUGH A STANDARD WATER CONSTRUCTION METER CONSTRUCTION METER CONSTRUCTION METER AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. ALL WATER DISCHARGE MUST BE DECHLORINATED IN ACCORDANCE WITH TNRCC & NPDES REGULATIONS.
- 6. THE CONTRACTOR SHALL RECOVER AND STOCK-PILE AT A LOCATION DESIGNATED BY THE WATER DIVISION INSPECTOR, ALL FIRE HYDRANTS, VALVES, AND FITTINGS THAT ARE TAKEN OUT OF SERVICE. THESE MATERIALS MAY BE SALVAGED BY THE CITY. HOWEVER, ALL ITEMS NOT CLAIMED BY THE CITY PRIOR TO THE FINAL INSPECTION SHALL BE DISPOSED OF BY THE CONTRACTOR.
- 7. THE CONTRACTOR SHALL BEAR ALL COST ASSOCIATED WITH WATERLINE REPAIRS (WHICH RESULT FROM DAMAGE CAUSED BY THE CONTRACTOR) UPON COMPLETION OF PROJECTS. ALL WATER LINES SHALL BE FREE OF ALL PATCHES AND SPLICES.
- 8. ALL PHYSICAL TIES OF THE PROPOSED SYSTEM INTO THE EXISTING WATERLINE SHALL BE RECONNECTED AND BE MADE UNDER SUPERVISION OF THE WATER DIVISION INSPECTOR. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND ALL EQUIPMENT THAT IS REQUIRED TO MAKE TIE—INS. CITY WATER DIVISION CREWS WILL MAKE TAPS ON CITY MAINS ARRANGED THROUGH WATER DIVISION INSPECTOR (72 HOUR NOTIFICATION).
- 9. ALL EXISTING SERVICE CONNECTIONS TIED ONTO THE EXISTING WATERLINE SHALL BE RECONNECTED BY THE CONTRACTOR, INCLUDING RELOCATING EXISTING WATER METERS. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY AND COORDINATE WITH THE WATER DIVISION INSPECTOR SAID RECONNECTIONS / RELOCATIONS IN ADVANCE OF CONSTRUCTION TO AVOID DELAYS. (NO SEPARATE COSTS)
- 10. MINOR LENGTH OF DUCTILE IRON PIPE ADJACENT TO FITTINGS MAY BE REQUIRED AS DIRECTED BY THE WATER DIVISION INSPECTOR BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL USE D.I.P. AS DIRECTED AND SHALL BE PAID AT THE UNIT PRICE BID FOR THE APPROPRIATE SIZE WATERLINE. A MINOR LENGTH IS DEFINED AS A SINGLE LOCATION REQUIRING THE USE OF TWO JOINTS OR LESS.
- 11. MINOR ADJUSTMENTS IN THE LOCATIONS OF FITTINGS, VALVES, FIRE HYDRANTS, ETC. CAN BE ANTICIPATED.
 THE CONTRACTOR SHALL MAKE SAID MINOR ADJUSTMENTS AS DIRECTED BY THE ENGINEER AND/OR WATER
 DIVISION INSPECTOR AT NO INCREASE OF CONTRACT PRICE. WATER DIVISION WILL BE NOTIFIED PRIOR TO
 ALL CHANGES
- 12. ALL NIPPLES BETWEEN FITTINGS AND VALVES ALONG MAINS SHALL BE DUCTILE IRON.
- 13. ALL DUCTILE IRON PIPES, VALVES, AND FITTINGS SHALL BE WRAPPED WITH (2) THICKNESSES OF 8 MIL. POLYETHYLENE AND SHALL BE RESTRAINED WITH "MEGALUG", MECHANICAL JOINT RESTRAINT OR ENGINEER APPROVED EQUAL AT ALL FITTINGS. CONCRETE THRUST BLOCKS SHALL BE PLACED BEHIND ALL FITTINGS EXCEPT WHERE LOCKING OR SWIVEL FITTINGS ARE UTILIZED, UNLESS OTHERWISE SPECIFIED BY THE WATER DIVISION ENGINEER.
- 14. ALL OFFSETS ARE TO BE DUCTILE IRON PIPE ASSEMBLIES LOCKED TOGETHER BY RETAINER GLANDS. DUCTILE IRON BENDS SHALL BE UTILIZED FOR ANY CHANGES IN ALIGNMENT OR GRADE.
- 15. IF A WATER LINE IS TO BE ABANDONED, THE CONTRACTOR WILL FILL WITH CONTROLLED LOW STRENGTH MATERIAL, "DARAFILL" BRAND OR ENGINEER APPROVED EQUAL, VALVES WILL BE REMOVED OR FILLED AS REQUIRED BY WATER DIVISION INSPECTOR
- 16. CONTRACTOR SHALL COORDINATE WITH WATER DIVISION INSPECTOR AND NOTIFY ALL AFFECTED CUSTOMERS 24 HOURS PRIOR TO KILLOUT OF EXISTING WATER SYSTEM.
- 17. WATER DISTRIBUTION SYSTEM STANDARDS CALL FOR MAXIMUM 48" COVER ON WATERLINES. WHEN DEPTHS EXCEED 48" COVER TO AVOID OBSTRUCTION, THE USES OF BENDS COULD BE REQUIRED.
- 18. CONTRACTOR SHALL KEEP ALL EXISTING VALVES ACCESSIBLE DURING ALL PHASES OF CONSTRUCTION.
- 19. ALL NEW WATER MAINS SHALL BE INSTALLED SO THAT PIPE IDENTIFICATION MARKINGS ARE LOCATED ON THE TOP OF THE PIPE.
- 20. ALL SERVICE LINES UNDER PAVEMENT SHALL BE ONE INCH, INSIDE DIAMETER, MINIMUM.

SPECIAL NOTE:

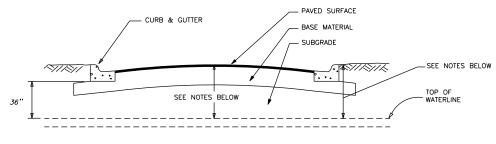
ENGINEER SHALL CONTACT THE UTILITY DEPARTMENT FOR WATER VAULT DESIGN COORDINATION.

SEPARATION OF WATER AND WASTEWATER LINES

- 1. THE SEPARATION OF WATER AND WASTEWATER LINES AND THE MATERIAL USED SHALL BE IN ACCORDANCE WITH THE "RULES & REGULATIONS FOR PUBLIC WATER SYSTEMS" OF TEXAS NATURAL RESOURCE CONSERVATION COMMISSION AND THE CITY WATER DETAILS .
- WHENEVER WATER & WASTEWATER LINES CROSS, ONE JOINT OF C900 PVC WATER LINE SHALL BE CENTERED OVER THE WASTEWATER LINE IN ADDITION TO ANY REQUIREMENTS AS DICTATED BY ITEM 1 ABOVE.

NOTES:

CONTRACTOR MAY BE REQUIRED BY THE WATER DIVISION INSPECTOR TO INSTALL CENTERED JOINTS OF DUCTILE IRON PIPE AT WATERLINE CROSSINGS OF EXISTING HAZARDOUS PRODUCT FLOWLINES.



WATERLINE MINIMUM COVER REQUIREMENTS

NOT TO SCALE

NOTES:

- ALL MAINS IN THE STREET SHALL HAVE A MINIMUM OF 36" OF COVER AND BE 12" MINIMUM BELOW SUBGRADE AT ALL POINTS AND HAVE VALVE CLEARANCES IN ACCORDANCE WITH THE VALVE DETAIL.
- 2. ALL TRANSMISSION MAINS (12" DIAMETER & ABOVE) IN THE STREET SHALL HAVE 48" OF COVER AT ALL POINTS.
- 3. ALL MAINS NOT UNDER THE STREET SHALL HAVE A MINIMUM OF 36" OF COVER AT ALL POINTS.

UNPAVED AREAS **PAVED AREAS** TOPSOIL TO BE PROVIDED SELECT BACKFILL MATERIAL FROM EXIST. (4" MIN. DEPTH) EXCAVATION COMPACTED TO 95% D698) SEE TABLE 2 - ITEM A - ASPHALT OR CONCRETE PAVEMENT SECTION - CEMENT-STABILIZED SAND (2 SACKS CEMENT/C Y OF SAND) COMPACTED TO 95% STD. PROCTOR 12" DENSITY (ASTM D698) SEE TABLE 2 - ITEM B PIPES 70R MIN. , ° MAGNETIC WARNING TAPE 12" ABOVE PIPE SAND ENCASE WATERLINE X=8" MIN. FOR PIPES <16" DIA. X=12" MIN. FOR PIPES ≥ 16" DIA.

TYP. PIPE TRENCHING, BEDDING AND BACKFILL FOR WATERLINE

NOT TO SCALE

NOTE: (CONCRETE PAVEMENT ONLY)

CONTRACTOR HAS OPTION TO USE CEMENT STABILIZED SAND OR BACKFILL WITH SELECT BACKFILL MATERIAL

GENERAL NOTES FOR BACKFILL

TABLE 1 BEDDING AND INITIAL BACKFILL (BELOW PIPE TO 12" ABOVE PIPE) ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR REFER TO DESIGN ENGINEER REQUIREMENTS: GRAVILAR BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL. WATER LINES: 1. EXCAVATIONS < 20FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL MEETING THE FOLLOWING CRITERIA. MEETING REQUIREMENTS OF ASTM D2487 FOR: SP SP SP SP SW GP SP-SM GP-CM SW-SM SP-SM GP-CM SW-SM AND IN ADDITION: PASSING 1/2" SIEVE — 100% PASSING 1/2" SIEVE — 30% MINIMUM PLASTICITY INDEX (PI) — NP TO 10 MAX. 2. IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED STONE OR CRUSHED GRAVEL MEETING GRADATION OF: A. CONCRETE COARSE AGGREGATE; TXDOT ITEM 421; GRADE 2, 3, OR 4.

TABLE 2 FINAL BACKFILL (GREATER THAN 12" ABOVE PIPE) UNPAVED AREAS PAVED AREAS

A. FOR 12" ABOVE PIPE TO BOTTOM OF TOPSOIL. BACKFILL SHALL BE APPROVED SELECT MATERIAL FROM THE EXCAVATION; OR IMPORTED MATERIAL: ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GREATER THAN 2" IN DIAMETER; LOOSE LIFTS TO BE PLACED

COMPACT MATERIAL TO 95%
STD. PROCTOR (D698).

MOISTURE TO BE ADJUSTED TO ± 3% OF OPTIMUM.

B. TOPSOIL TO BE PROVIDED EQUIAL OR BETTER THAN EXISTING, AND MATCH EXISTING TOPSOIL DEPTH. COMPACT TO FIX CONFLICT TO EXISTING ADJACENT TOPSOIL. (CONSTRUCTION TO BE PERFORMED BY "DOUBLE DITCH," METHOD TOP SOIL SALVAGED TO BE PLACED ON

A. FOR 12' ABOVE PIPE TO 3' BELOW
BOTTOM OF ROAD BASE: BACKFILL SHALL
BE SELECT MATERIAL FROM EXCAVATION OR
TO BE IMPORTED MATERIAL IN EITHER
CASE, ALL MATERIAL SHALL MEET THE

LL<35 PI 8-20 NO CLUMPS > 2" DIA. MOISTURE 0 TO +3% COMPACT 95% D698 SID PROCTOR

LOOSE LIFTS OF 10" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND SEE TABLE 2-ITEM B BELOW (OR PER DESIGN ENGINEER)

B. FOR 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:

BACKFILL SHALL BE CEMENT STABILIZED SAND (2 SK/C.Y.) AND SHALL MEET THE FOLLOWING REQUIREMENTS:

SAND GRADATION: % PASSING

#4 55-100 #10 40-100 #40 25-100 #200 10-20 PI NP-10

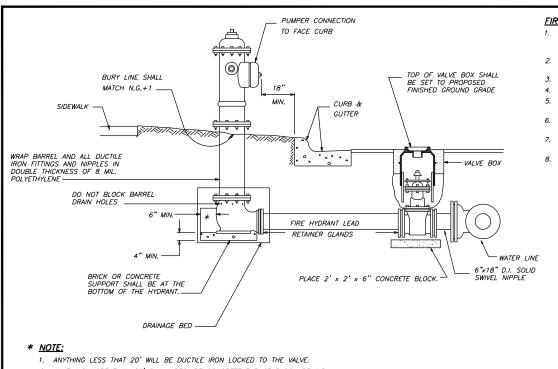
(OR AS PER DESIGN ENGINEER)

COMPACT TO 95% OF D698. MOISTURE TO BE ADJUSTED TO (+/-2%) OF OPTIMUM.

S HRI Ċ S \circ 0 \overline{C} TAILS Y OF CORPUS CHRIS
STANDARD

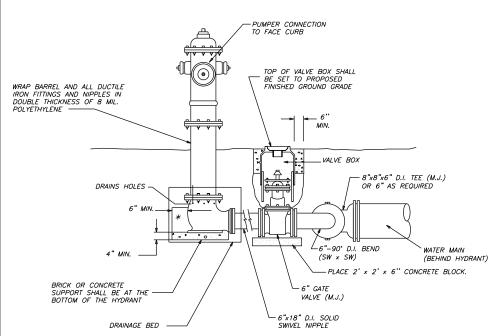
SYSTEM GENERAL WATER S SHEET of RECORD DRAWING NO. CITY PROJECT #

CONSULTANT'S SHEET No.



2. ANYTHING MORE THAN 20' SHALL REQUIRE CONCRETE THRUST BLOCK BEHIND HYDRANT AGAINST UNDISTURBED SOIL.

FIRE HYDRANT ASSEMBLY DETAIL (TYPE 1)



- 1. ANYTHING LESS THAT 20' WILL BE DUCTILE IRON LOCKED TO THE VALVE.
- 2. ANYTHING MORE THAN 20' SHALL REQUIRE CONCRETE THRUST BLOCK BEHIND HYDRANT AGAINST UNDISTURBED SOIL.

FIRE HYDRANT ASSEMBLY DETAIL (TYPE 2) WATER LINE BEHIND CURB

NOT TO SCALE

FIRE HYDRANTS:

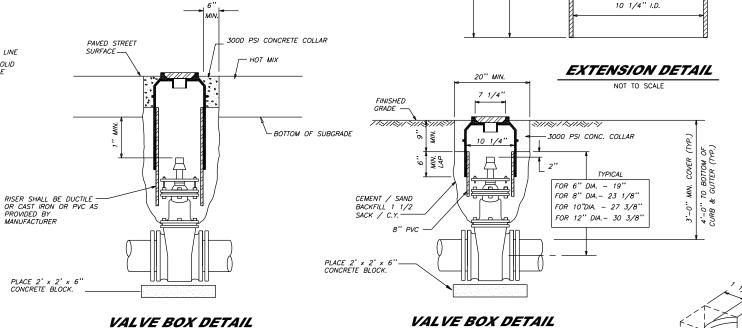
- DRAINAGE BED SHALL CONSIST OF CRUSHED STONE OR
 COARSE GRAVEL W/ COARSE SAND, MIN. VOLUME 7 CU. FT., DRAIN BED SHALL EXTEND A MIN. 6" ABOVE DRAIN OUTLET.
- 2. ALL FIRE HYDRANT FITTINGS SHALL BE LOCKED TOGETHER BY LOCKING RETAINER GLANDS.
- 3. FIRE HYDRANT TO BE BLOCKED AGAINST FIRM SOIL AS SHOWN.
- 4. ALL HYDRANTS SHALL BE INSTALLED PLUMB.
- 5. LARGE NOZZLE FACES ROAD, UNLESS OTHERWISE NOTED. ROTATE BARREL AS REQUIRED.
- 6. HYDRANT SHOULD NOT BE SET CLOSER THAN 4' TO OBSTRUCTIONS THAT ARE IN LINE WITH NOZZLE.
- 7. FIRE HYDRANT SHALL BE SET TO MANUFACTURER'S BURY LINE AT PROPOSED/EXISTING GRADE PLUS 1".

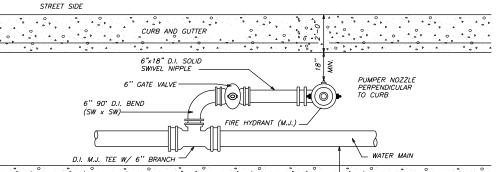
@ PAVEMENT

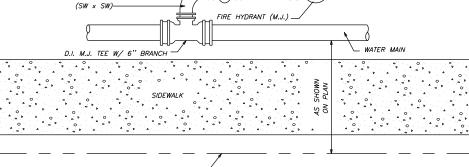
NOT TO SCALE

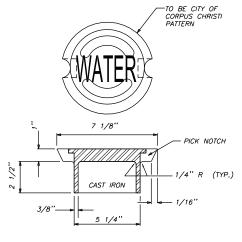
PROPERTY LINE -

8. NO TAPS ARE TO BE MADE ON FIRE HYDRANT LEAD.









LID DETAIL

NOT TO SCALE

NOT TO SCALE

8 1/2"

7 1/4"

6" DIA.

3/8"

1 1/2'

1/2"-

@ NATURAL GROUND

NOT TO SCALE

ALL VALVES SHALL BE HOUSED IN APPROVED VALVE BOXES

FIRE HYDRANT ASSEMBLY DETAIL (TYPE 2)

NOT TO SCALE

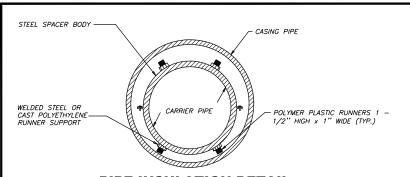
ORPUS of CPICK NOTCH CITY OF CORPUS CHRISTI
WATER STANDARD DETAIL
FIRE HYDRANT, VALVE BOX AND LID SHEET of RECORD DRAWING NO. CITY PROJECT #_

CONSULTANT'S SHEET No.

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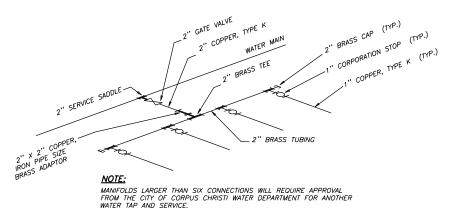
S



PIPE INSULATION DETAIL NOT TO SCALE OF ONE FOOT FROM EACH SIDE OF JOINT 3 INSULATORS PER JOINT RECOMMENDED CASING PIPE CASING PIPE CARRIER PIPE CASING SPACER SHOULD BE SPACED A MAXIMUM OF ONE FOOT FROM EACH SIDE OF JOINT

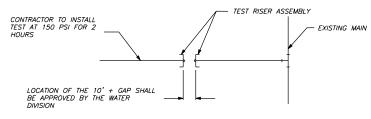
INSULATOR SPACING DETAIL

NOT TO SCALE



THREE TO SIX WATER CONNECTIONS

NOT TO SCALE



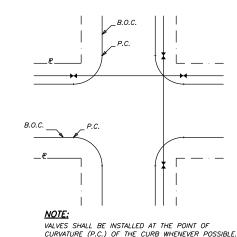
- 1. HYDROSTATIC TEST: WATER FOR FILLING THE NEW WATER LINE AND PERFORMING TESTS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY OF CORPUS CHRISTI THROUGH A STANDARD WATER CONSTRUCTION METER CONNECTION. STANDARD WATER CONSTRUCTION METER AND GAUGE WILL BE SUPPLIED BY THE CITY AFTER THE CONTRACTOR HAS PAID ALL APPLICABLE FEES FOR THE WATER CONSTRUCTION METER. THE TEST PUMP WITH APPROPRIATE CONNECTION POINTS AS APPROVED BY THE WATER SUPERINTENDENT FOR THE INSTALLATION OF METER AND GAUGE SHALL BE FURNISHED BY THE CONTRACTOR. THE METER SHALL BE DIRECTLY CONNECTED TO THE MAIN OR PIPE BEING TESTED BY THE USE OF COPPER TUBING OR AN APPROVED REINFORCED HOSE. THE METER SHALL BE PROTECTED AGAINST EXTEME PRESSURES BY THE USE OF A ONE (1") INCH SAFETY RELIEF VALVE SET AT THE TEST PRESSURE PLUS TEN POUNDS PER SQUARE INCH AND FURNISHED BY THE CITY (48 HOURS NOTIFICATION).
- 2. BACTERIOLOGICAL TEST: CONTRACTOR SHALL FURNISH AND INSTALL TEST RISER ASSEMBLY.
 AFTER BACTERIOLOGICAL SAMPLE PASSES TEST, CONTRACTOR SHALL REMOVE TEST RISER
 ASSEMBLIES AND TIE NEW SYSTEM TO EXISTING UNDER THE SUPERVISION OF THE WATER
 DIVISION INSPECTOR. CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT
 THAT IS REQUIRED TO MAKE TIE / CONNECTION. CONTRACTOR WILL SCHEDULE & COORDINATE
 WITH WATER DIVISION INSPECTOR ON DATE & TIME OF TIE—IN. (24 HOURS NOTIFICATION)
- 3. CONTRACTOR SHALL FURNISH AND INSTALL TAPPING SLEEVE OR SADDLE AND TAPPING GATE VALVE AND VALVE BOX COMPLETE. CITY TO MAKE TAP (72 HOURS NOTIFICATION)

DETAIL "A" TEST RISER ASSEMBLY CONNECTION

NOT TO SCALE

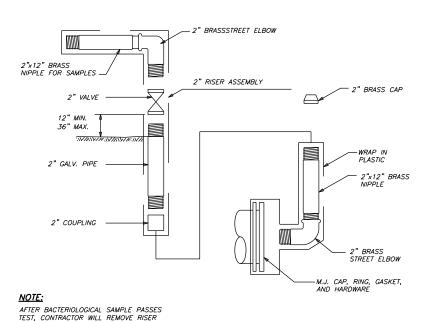
CASING SPACERS

- A. ALL CARRIER PIPE IN CASING INSTALLED BY JACKING OR BORING SHALL BE SUPPORTED BY BOLT-ON STYLE CASING SPACERS, AS MANUFACTURED BY ADVANCE PRODUCTS INC. OR ENGINEER APPROVED EQUAL.
- B. CASING SPACERS FOR PIPE INSTALLED IN CASING SHALL HAVE A FUSION BONDED EPOXY CARBON STEEL BODY, NEOPRENE OR PVC LINER. STEEL SUPPORTS AND U.H.M.W. POLYETHYLENE RUNNERS.
- C. CASING SPACERS SHALL BE SIZED TO SECURELY FASTEN ON TO THE CARRIER PIPE BARRIER O.D. AND SHALL BE FURNISHED WITH A MINIMUM RUNNER HEIGHT TO PREVENT THE PIPE FROM RESTING OR SLIDING ON ITS JOINTS DURING THE INSTALLATION.
- 1. POSITIONING OF SPACERS SHOULD ENSURE THAT THE CARRIER PIPE IS ADEQUATELY SUPPORTED THROUGHOUT ITS LENGTH.
- SPACERS AT EACH END SHALL NOT BE FURTHER THAN 6" FROM THE END OF CASING REGARDLESS OF SIZE OF CASING AND CARRIER PIPE OR TYPE OF SPACER USED.
- D. FOR PIPE WITH MECHANICAL JOINTS, FLANGES OR BELL AND SPIGOT JOINTS, CASING SPACERS SHALL BE INSTALLED WITHIN ONE FOOT ON EACH SIDE OF THE BELL OR FLANGE AND ONE IN THE CENTER OF THE JOINT WHEN 18 TO 20 FOOT LONG JOINTS ARE USED. MAXIMUM SPACING FOR SPACERS IS 12 FEET.



TYPICAL VALVE INSTALLATION AT INTERSECTIONS

NOT TO SCALE



ASSEMBLY AND INSTALL 2" BRASS CAP DETAIL "B"

TEST RISER ASSEMBLY

NOT TO SCALE

FURNISHED AND INSTALLED BY CONTRACTOR

EXISTING PIPE

REMOVE ONE JOINT OF EXISTING PIPE AND REPLACE WITH D.I. PIPE

45' BEND D.I.P. *
WITH LOCKING RING

* ALL BENDS TO BE MECH. JOINT FITTING

WITH LOCKING RING

WITH LOCKING RING

* ALL FITTINGS SHALL BE RESTRAINED BY MECHANICAL JOINT RESTRAINT DEVICE "MEGALUG" AS INDICATED BY PLANS AND SPECS., OR ENGINEER APPROVED EQUAL, AND CONCRETE THRUST BLOCK, AS DESIGNATED BY WATER DIVISION INSPECTOR

WATERLINE ADJUSTMENT DETAIL

CONSULTANT'S SHEET No.

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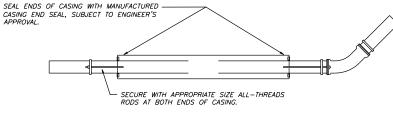
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NOT TO SCALE

NOTE:
SEE #18 UNDER GENERAL NOTES

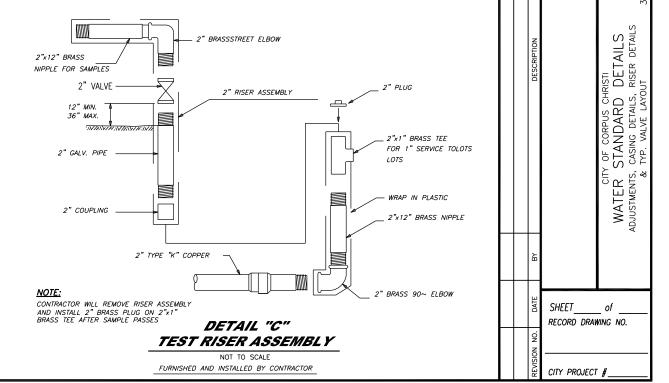


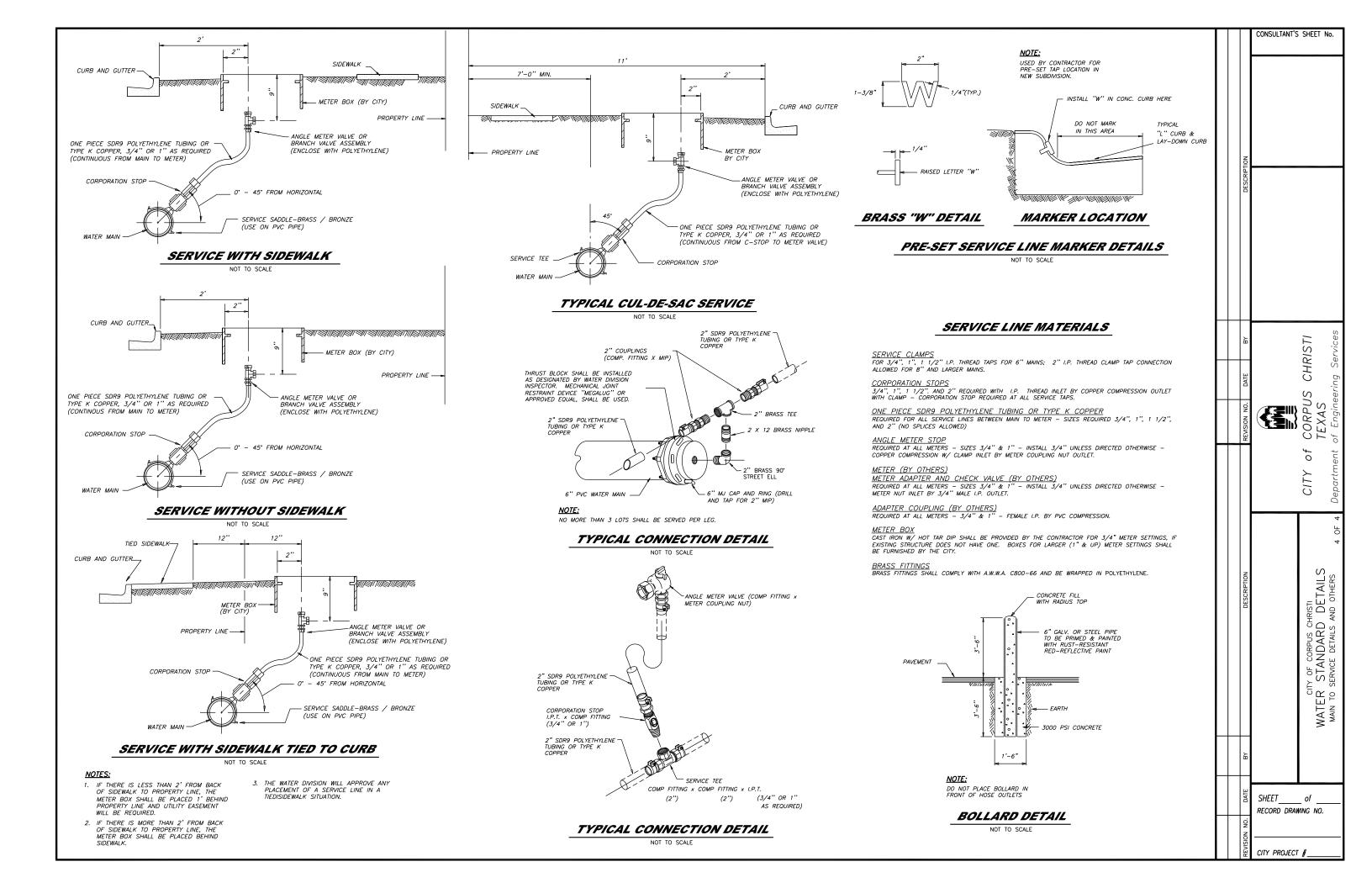
NOTE:

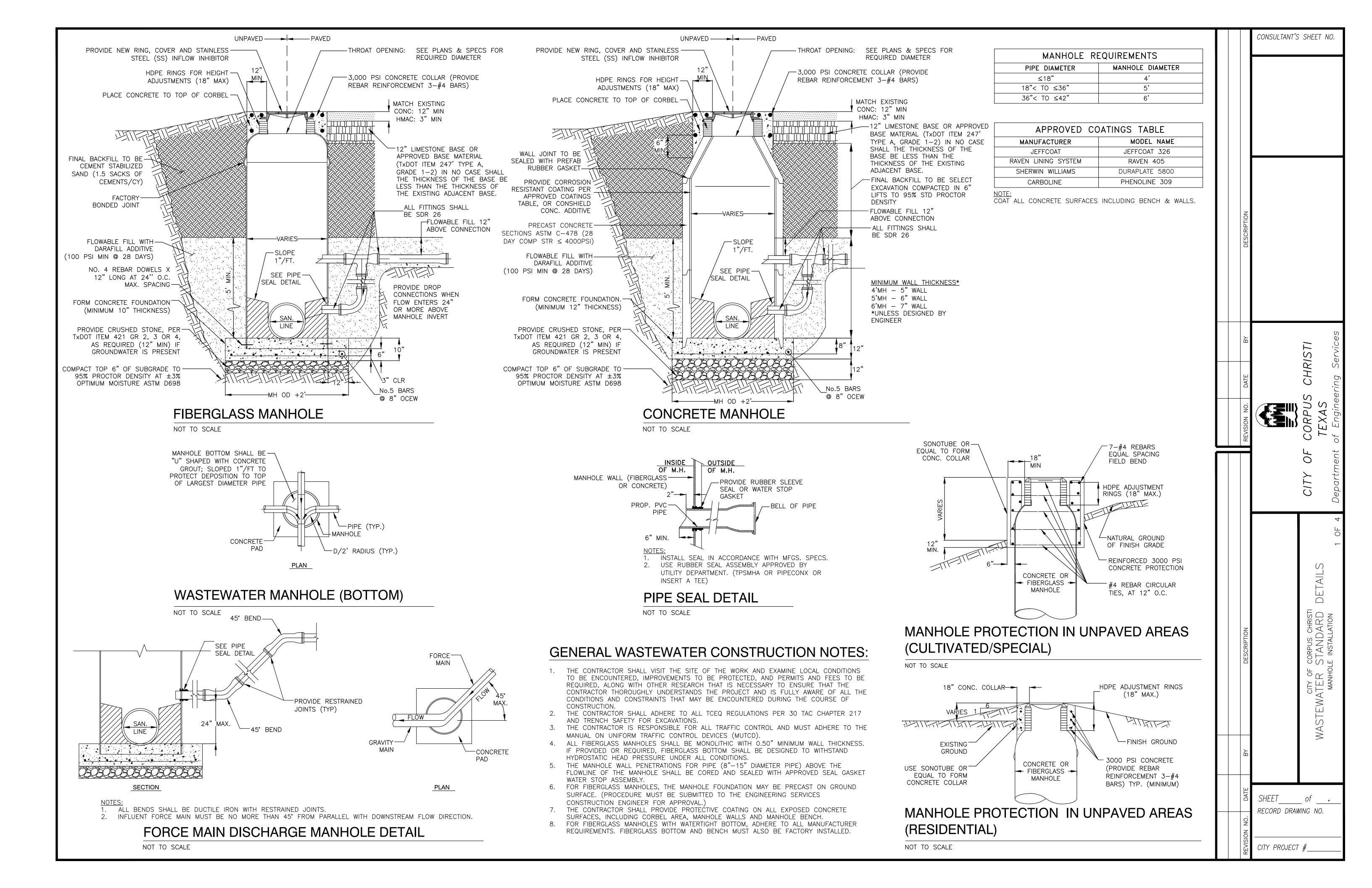
CASING SHALL BE STEEL.

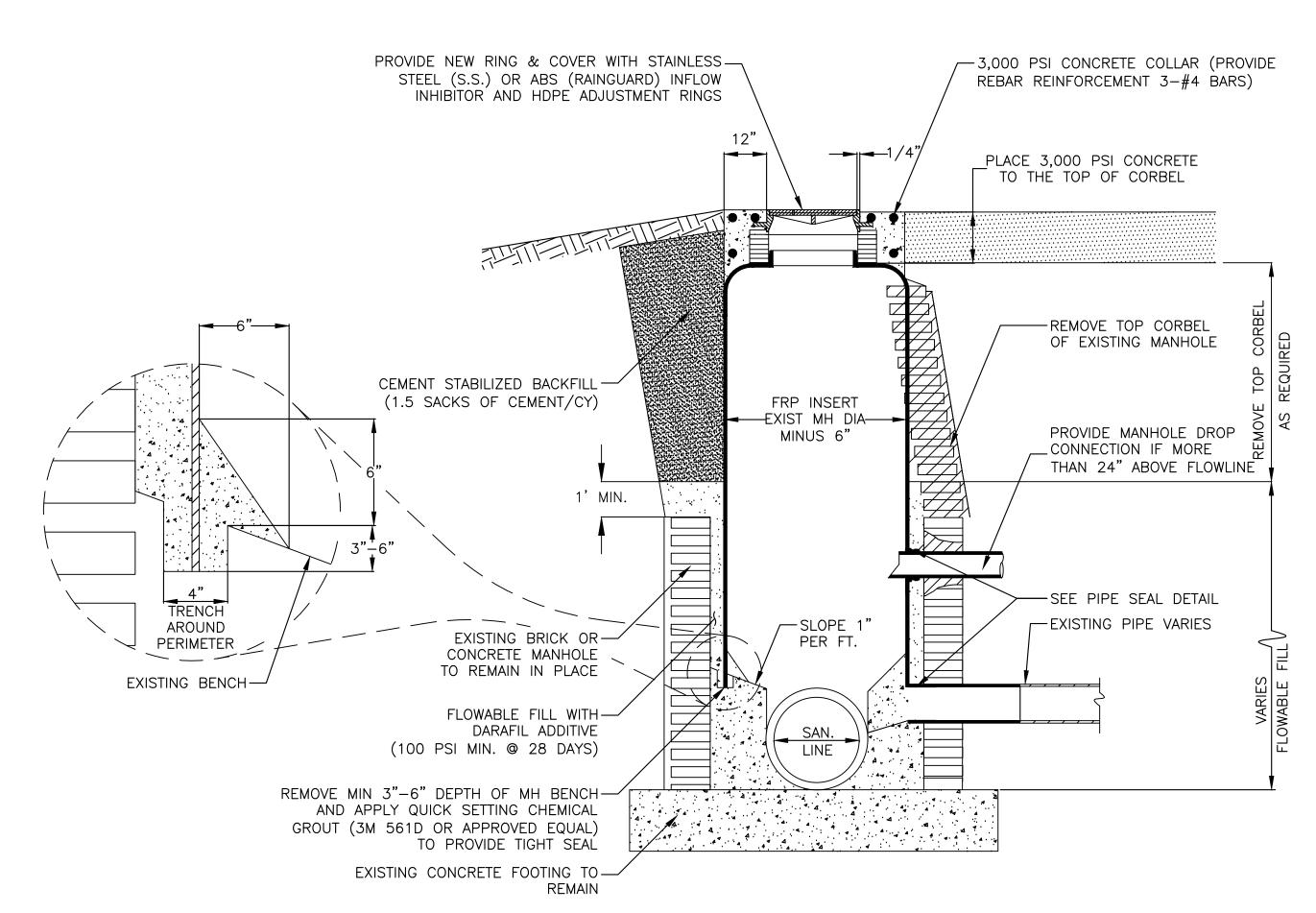
TYPICAL CASING DETAIL

NOT TO SCALE





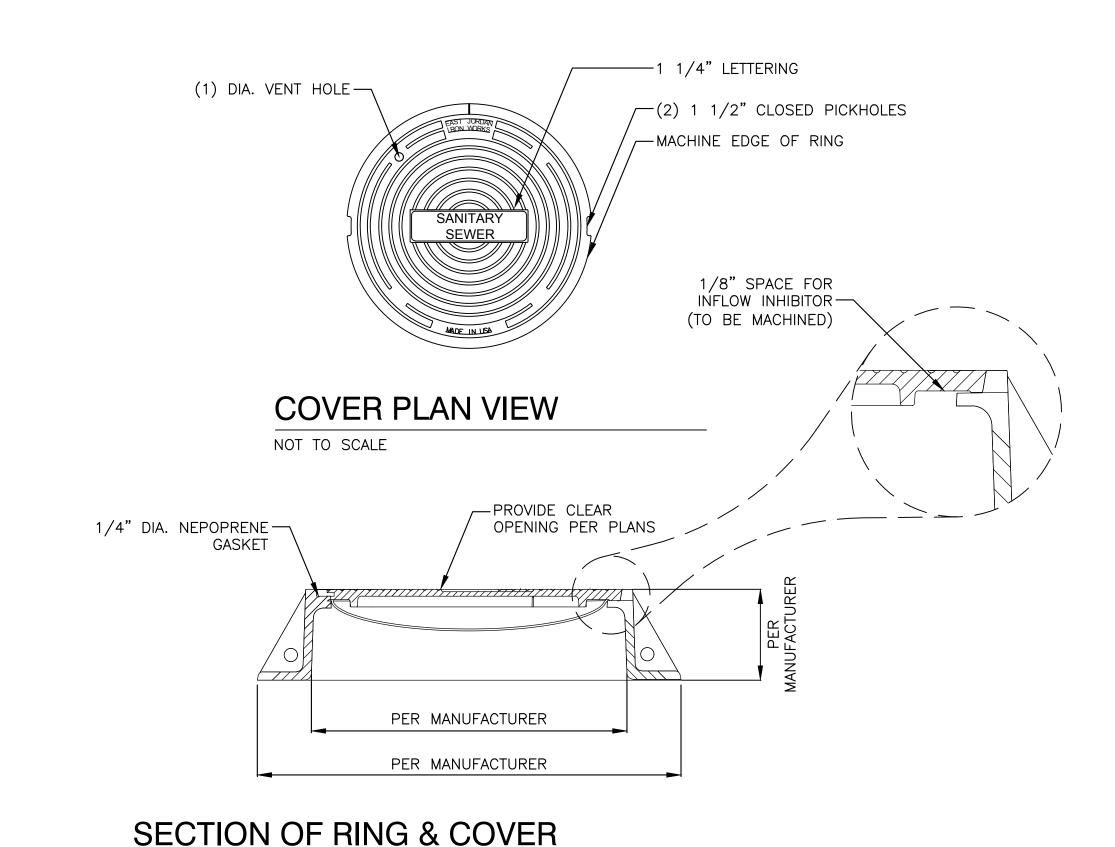




FRP INSERT REHABILITATION OF EXISTING MANHOLE

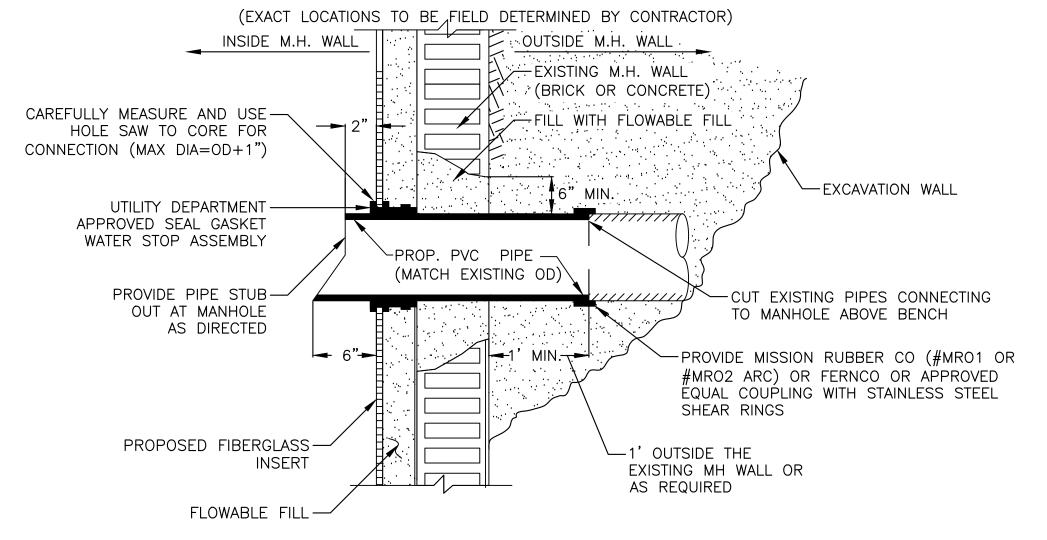
NOT TO SCALE

NOT TO SCALE



FRP INSERT REHABILITATION OF EXISTING MANHOLE NOTES:

- 1. THE CONTRACTOR SHALL FIELD-VERIFY THE EXISTING MANHOLE DIAMETER, FLOW LINE, RIM ELEVATION, NUMBER OF LATERALS, LOCATIONS, SIZES, AND OTHER INFORMATION NEEDED TO REHABILITATE EACH MANHOLE.
- 2. PRIOR TO INSTALLING CONTROL OF FLOW OR INITIATING MANHOLE REPAIRS, THE CONTRACTOR SHALL PLACE BARRICADES AND SIGNS TO DIVERT TRAFFIC AND PEDESTRIANS PER THE APPROVED TRAFFIC CONTROL PLAN, AS REQUIRED.
- 3. THE CONTRACTOR SHALL PREPARE THE INTERIOR OF THE EXISTING FOUNDATION STRUCTURE BY REMOVING ALL DEFECTIVE GROUT AND DEBRIS/BLOCKAGES, MECHANICALLY ROUGHEN THE ENTIRE INVERT, AND CLEAN THE INTERIOR WITH A HIGH-PRESSURE WATER JET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF THE RESULTING SLUDGE AND DEBRIS AT AN APPROVED SITE, ACCORDING TO ALL PERTINENT WASTE DISPOSAL REGULATIONS.
- THE CONTRACTOR SHALL USE QUICK-SETTING, NON-SHRINK CONCRETE GROUT TO SEAL AND RESHAPE THE BOTTOM. SUBMIT PROPOSED MATERIALS TO BE USED TO THE ENGINEER FOR APPROVAL
- PROVIDE COATING TO EXPOSED CONCRETE SURFACES WITH APPROVED SYSTEM TO PREVENT CORROSION. 7. FRP INSERT SHALL COMPLY WITH ASTM D3753 WITH SINGLE PIECE MONOLITHIC BARREL AND CORBEL CONSTRUCTION WITHOUT SEAMS, JOINTS OR SECTIONS. WALL THICKNESS SHALL PROVIDE AN AASHTO H-20 LOAD RATING AND WALL STIFFNESS OF 36 PSI MIN.
- 8. CUT BOTTOM OF FRP INSERT TO FIT EVENLY ON BENCHES OR CHIP BENCHES OUT TO EVENLY SUPPORT INSERT.
- 9. SEAL ANNULAR SPACE AROUND EXIST LINES WITH JUTE ROPE AND CHEMICAL GROUT.



FRP INSERT PIPE SEAL DETAIL

NOT TO SCALE

ROADWAY MANHOLE RING AND COVER:

- 1. THE CONTRACTOR SHALL PROVIDE STAINLESS STEEL (S.S.) INFLOW INHIBITOR WITH SS TETHER SECURED TO MANHOLE WALL, SUCH THAT THE INNER LID IS FLUSH WITH THE OUTER LID.
- 2. TRAFFIC SHALL BE RESTRICTED FROM MANHOLE FOR 48 HOURS AFTER THE PLACEMENT OF CONCRETE, AND COLLAR SHALL PROVIDE A SUFFICIENT, CLEAR OPENING TO ACCOMMODATE THE SPECIFIED MANHOLE COVER.
- 3. AASHTO-M-306 (LATEST REVISION) PROOF LOAD TESTING IS REQUIRED (40,000 LBS) AND MUST BE INSPECTED. PRIOR TO INSTALLATION, THE
- RESULTS OF THE TEST SHALL BE SUBMITTED TO THE CITY. 4. THE MANUFACTURING FACILITIES FOR ALL PROVIDED RING AND COVER
- ASSEMBLIES SHALL MEET OR EXCEED ALL EPA ENVIRONMENTAL STANDARDS AND OSHA SAFETY STANDARDS. THE CASTINGS SHALL BE MANUFACTURED FROM RECYCLED MATERIALS. THE CONTRACTOR SHALL PROVIDE CERTIFICATION.

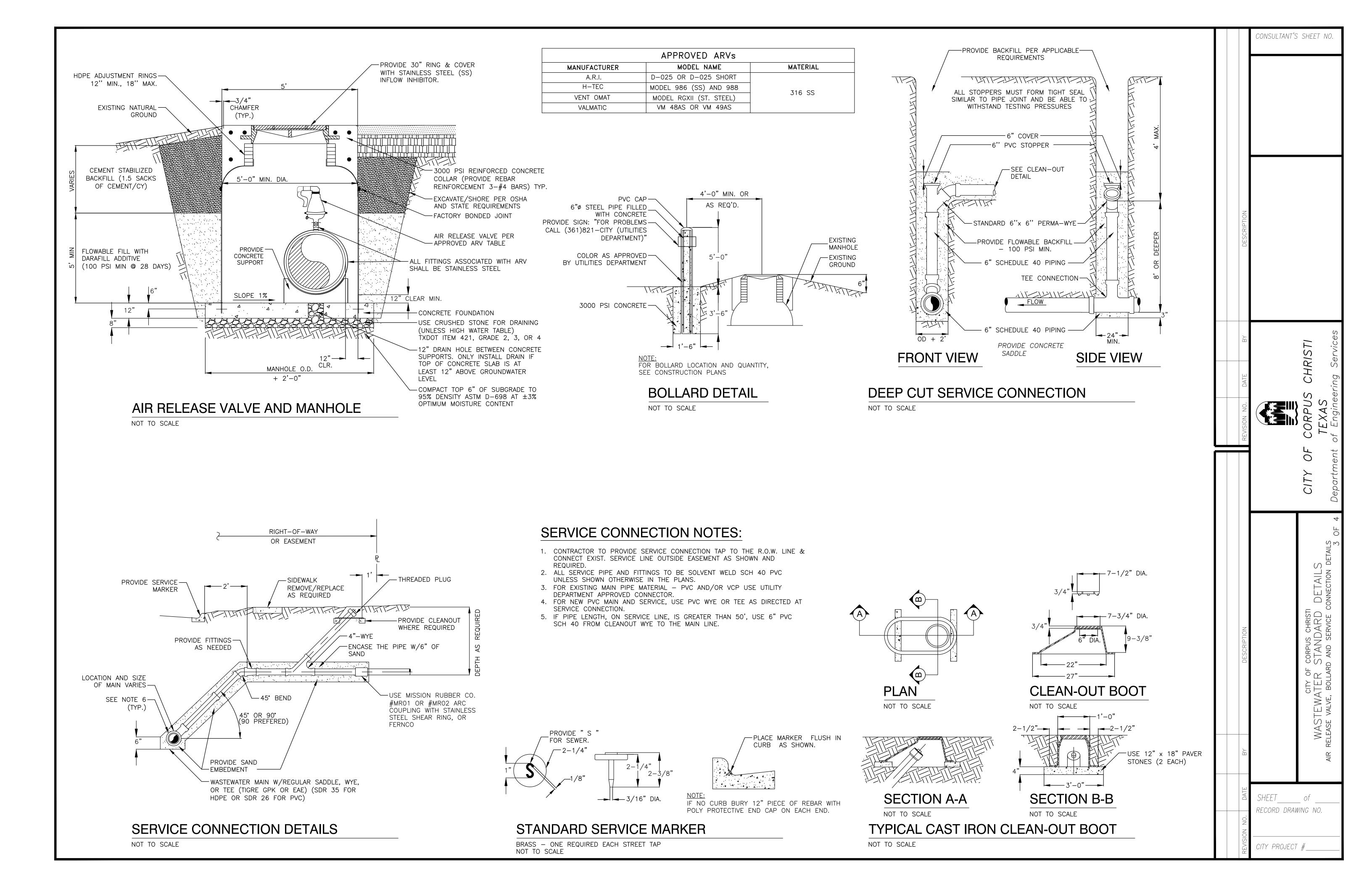
CLEAR OPENING	MANUFACTURER (1)	MODEL NUMBER*	INFLOW INHIBITOR
	EAST JORDAN IRON WORKS	V-1168	
24"	U.S. FOUNDRY	COVER- #8018538 FRAME- #8022247	
	NEENAH FOUNDRY	R-1930-24	REQUIRED ON ALL
	EAST JORDAN IRON WORKS	COVER- V1430 FRAME- V1420	INSTALLATIONS PER CITY SPECIFICATIONS
30" (2)	U.S. FOUNDRY	COVER- #9210048 FRAME- #8021361	
	NEENAH FOUNDRY	DF-1274	

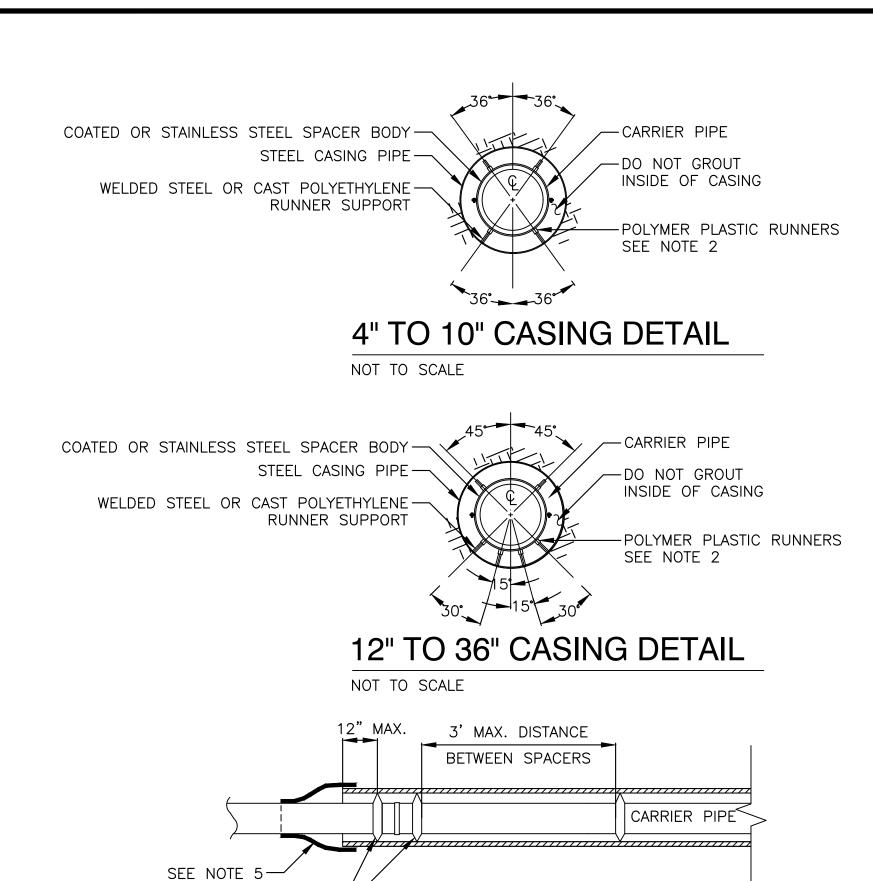
- (1) OR APPROVED EQUAL (MADE IN THE USA)
- (2) UNLESS NOTED IN THE PLANS, ALL COVERS SHALL BE 24" DIAMETER AND NOT INTENDED FOR MANNED ENTRY.

RING & COVER APPROVED LIST

	DESCRIPTION	
	ВУ	es
	REVISION NO. DATE	CITY OF CORPUS CHRISTI TEXAS
		CITY OF C T Department of
	BY DESCRIPTION	CITY OF CORPUS CHRISTI WASTEWATER STANDARD DETAILS REHABILITATION OF EXISTING MANHOLE & MANHOLE RING AND COVER DETAILS 2 OF 4
	. DATE	SHEET of RECORD DRAWING NO.
	REVISION NO.	

CONSULTANT'S SHEET NO.





CASING NOTES:

CASING SPACER SHOULD BE SPACED

MAXIMUM OF ONE FOOT FROM EACH

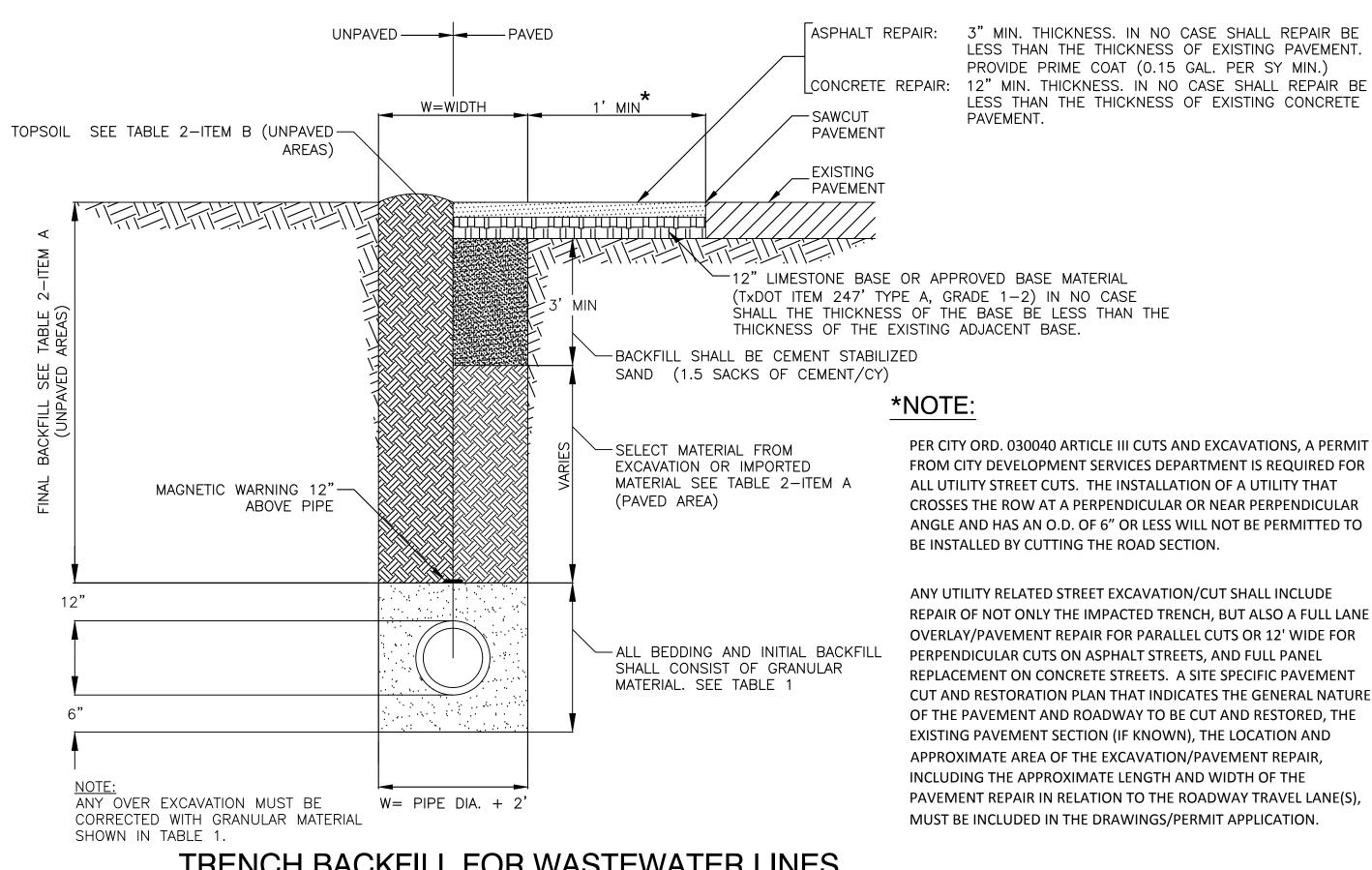
SIDE OF JOINT

1. CASING DIAMETER, LENGTH, LOCATION, AND WALL THICKNESS SHALL BE PER PROJECT

CASING DETAIL

NOT TO SCALE

- SPECIFIC REQUIREMENTS. (MINIMUM SCHEDULE 40)
- 2. ALL CARRIER PIPES IN INSTALLED CASINGS SHALL BE SUPPORTED BY BOLT-ON STYLE CASING SPACERS ("ADVANCED PRODUCTS" OR APPROVED EQUAL).
- 3. THE CONTRACTOR SHALL PROVIDE MECHANICALLY RESTRAINED JOINTS FOR FORCE MAINS ONLY ON CARRIER PIPES. "MEGALUG" TYPE JOINT RESTRAINTS OR APPROVED EQUAL
- 4. CASING SPACERS SHALL BE SIZED TO SECURELY FASTEN TO THE CARRIER PIPE O.D. AND SHALL BE FURNISHED WITH A MINIMUM RUNNER HEIGHT TO MAINTAIN SEPARATION BETWEEN THE MAXIMUM O.D. OF THE CARRIER PIPE AND THE CASING WALL.
 - A. POSITIONING OF THE SPACERS SHALL ENSURE THAT THE CARRIER PIPE IS ADEQUATELY SUPPORTED THROUGHOUT ITS LENGTH. B. SPACERS AT EACH END SHALL NOT BE FURTHER THAN 12" FROM THE END
 - OF THE CASING. C. CASING SPACERS SHALL BE INSTALLED IN THE CENTER OF THE PIPE SECTION. THE MAXIMUM SPACING OF THE CASING SPACERS SHALL BE 3 FEET.
- 5. THE TWO ENDS OF THE CASING PIPE SHALL BE SEALED WATERTIGHT WITH AN ADVANCED PRODUCTS SYSTEM, INC. MODEL AZ - ZIPPER, PSI MODEL C END SEAL, OR AN APPROVED EQUAL.



TRENCH BACKFILL FOR WASTEWATER LINES AND PAVEMENT REPAIR FOR UTILITIES

NOT TO SCALE

TABLE 1

B. CRUSHED LIMESTONE PER TXDOT ITEM 421' GRADE 2, 3, OR 4

GENERAL NOTES FOR BACKFILL

BEDDING AND INITIAL BACKFILL (GREATER THAN 12" ABOVE PIPE) (BELOW PIPE TO 12" ABOVE PIPE) **UNPAVED AREAS** ALL BEDDING AND INITIAL BACKFILL SHALL CONSIST OF THE FOLLOWING OR A. FROM 12" ABOVE PIPE TO REFER TO DESIGN ENGINEER REQUIREMENTS: GRANULAR BACKFILL BOTTOM OF TOPSOIL BACKFILL CONSISTING OF EITHER NATURAL SAND OR SANDY GRAVEL, OR MATERIAL SHALL BE APPROVED SELECT PRODUCED BY CRUSHING OF NATURAL STONE OR GRAVEL: MATERIAL FROM THE EXCAVAT-ION; OR IMPORTED MATERIAL; ALL TO BE FREE OF ROCKS, DEBRIS, OR ANY CLUMPS GR-EATER THAN 2" IN DIAMETER; (1.) EXCAVATIONS <20 FT. DEEP AND ABOVE WATER TABLE, USE MATERIAL LOOSE LIFTS TO BE PLACED MEETING THE FOLLOWING CRITERIA. 10" MAX. MEETING REQUIREMENTS OF ASTM D2487 FOR: SP COMPACT MATERIAL TO 95% GP SW GW STD. PROCTOR (D698). SP-SM GP-GM SW-SM GW-GM MOISTURE TO BE ADJUSTED TO \pm 3% OF OPTIMUM. AND IN ADDITION: PASSING 1/2" SIEVE - 100% B. TOPSOIL TO BE PROVIDED EQUAL OR BETTER THAN PASSING #4 SIEVE - 30% MINIMUM EXISTING: AND MATCH PLASTICITY INDEX (PI) - NP TO 10 MAX. EXISTING TOPSOIL DEPTH. COMPACT TO EXISTING (2.) IN DEEP EXCAVATIONS (>20') OR BELOW WATER TABLE, USE CRUSHED ADJACENT TOP-SOIL STONE OR CRUSHED GRAVEL MEETING GRADATION OF: THICKNESS. (CONSTRUCTION TO BE PERFORMED BY "DOUBLE A. CONCRETE COARSE AGGREGATE; TxDOT ITEM 421; GRADE 2, 3, DITCH" METHOD-TOP SOIL OR 4. SALVAGED TO BE PLACED ON TOP)

PAVED AREAS A. FROM 12" ABOVE PIPE TO 3' BELOW BOTTOM OF ROAD BASE: BACKFILL SHALL BE SELECT MATERIAL FROM EXCAVATION OR IMPORTED MATERIAL. IN EITHER CASE, ALL MATERIAL SHALL MEET THE FOLLOWING:

3" MIN. THICKNESS. IN NO CASE SHALL REPAIR BE

LESS THAN THE THICKNESS OF EXISTING PAVEMENT. PROVIDE PRIME COAT (0.15 GAL. PER SY MIN.)

LESS THAN THE THICKNESS OF EXISTING CONCRETE

PAVEMENT.

LL<35 PI 8-20 NO CLUMPS > 2" DIA.

TABLE 2

FINAL BACKFILL

MOISTURE -1 TO +3%COMPACT 95% D698 STD PROCTOR

LOOSE LIFTS OF 12" MAX OR IF SELECT MATERIAL FROM EXCAVATION DOES NOT MEET REQUIREMENTS, THEN USE CEMENT STABILIZED SAND.

B. FROM 3' BELOW BOTTOM OF ROAD BASE TO BOTTOM OF ROAD BASE:

SEE TABLE 2-ITEM B BELOW.

BACKFILL SHALL BE CEMENT STABILIZED SAND (1.5 SK/C.Y.) AND SHALL MEET THE FOLLOWING

SAND GRADATION: % PASSING #4 55-100 #10 40-100 #40 25-100

#200

REQUIREMENTS:

COMPACT TO 95% OF D588. MOISTURE TO BE ADJUSTED TO TO (+/-2%) OF OPTIMUM.

10-20 NP-10

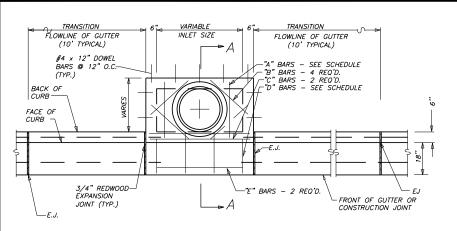
CONSULTANT'S SHEET NO.

AILS NG DETA DET, CORPUS CHRISTI STANDARD [LL/GENERAL NOTES/

CITY OF WASTEWATER EMENT REPAIR/BACKFILL

SHEET of RECORD DRAWING NO.

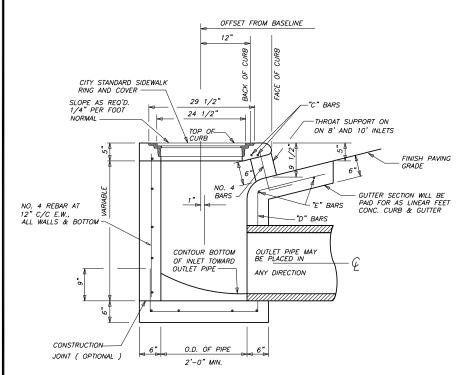
CITY PROJECT #



PLAN OF 5' STANDARD INLET NOT TO SCALE

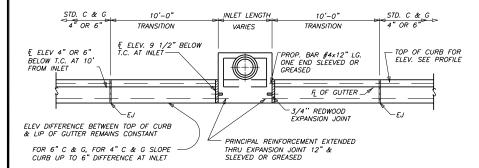
SPECIAL NOTE:

- 1. CONTRACTOR TO PROVIDE #4 x 12" DOWELS @ 12" O.C. WHERE PROP. SIDEWALK ABUTS INLET. (NO SEPARATE PAYMENT)
- 2. FOR CURB INLET THROAT EXTENSION DETAILS REFER TO STORM WATER STANDARD DETAIL SHEET 3 OF 3.



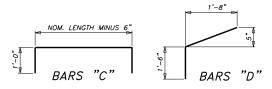
SECTION A-A

NOT TO SCALE



FLOWLINE TRANSITION AT INLET FOR 4" OR 6" STD. CURB AND GUTTER

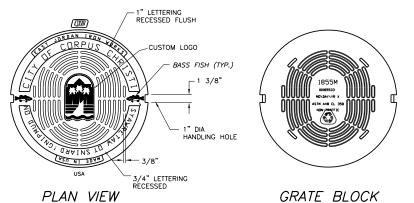
NOT TO SCAL

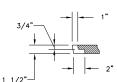


- ** THROAT OPENINGS SHALL HAVE A 6" X 6" CONCRETE SUPPORT PLACED AT MID-THROAT
- $\mbox{*}$ NOMINAL LENGTH OF INLET SHALL BE DESIGNATED AS THE CLEAR WIDTH OPENING.

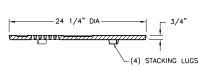
STANDARD CURB INLET STEEL SCHEDULE										
	ALL BARS No. 4 PREFORMED									
INLET SIZE	INLET SIZE NO. REQ'D./LENGTH									
(Nom. Length)	"A" BARS	"B" BARS	"C" BARS	"D" BARS	"E" BARS					
4'	2/0	4/1'-10"	2/5'-6"	4/3'-2"	2/4'-6"					
5'	2/0	4/3'-2"	2/6'-6"	4/3'-2"	2/5'-6"					
6'	4/0	4/4'-0"	2/7'-6"	6/3'-2"	2/6'-6"					
* * 8'	4/0	4/4'-0"	2/9'-6"	6/3'-2"	2/8'-6"					
10'	6/a	4/4'-0"	2/11'-6"	7/3'-2"	2/10'-6"					
BENDING	STRAIGHT	STRAIGHT	SEE DET.	SEE DET.	STRAIGHT					



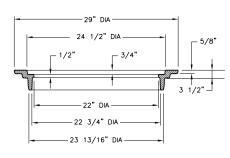








GRATE SECTION



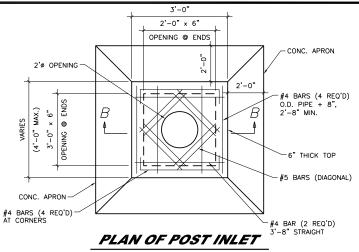
RING SECTION

CITY STANDARD INLET AND SIDWALK MANHOLE RING & COVER CASTING DETAILS

NOT TO SCALE

INLET AND SIDEWALK MANHOLE RING & COVER NOTES

- 1. MANHOLE RING & COVER SHALL BE EAST JORDAN MANHOLE ASSEMBLY FOR LOAD RATING NON-TRAFFIC.
- 2. THESE DETAILS SHOW GREY-IRON CASTINGS, FILLETED AT ANGLES WITH SHARP AND PERFECT ARISES.
- CASTING SHALL BE TRUE TO PATTERN, FORM, AND DIMENSIONS, FREE FROM CRACKS, SPONGINESS AND BLOWHOLES.
- 4. MACHINE SURFACES TO YIELD FIT WHICH WILL NOT RATTLE WITH PASSING TRAFFIC LOAD.
- 5. TRAFFIC SHALL BE RESTRICTED FROM M.H. FOR 36 HOURS AFTER PLACEMENT OF RING.
- 6. RING AND COVER SHALL BE DIPPED IN COAL TAR OR ASPHALT.
- 7. OTHER CASTING PATTERNS FOR RING & COVERS MAY BE SUBMITTED FOR APPROVAL PROVIDED THE PLAN PATTERN OF COVER IS THE SAME AS SHOWN ON THIS SHEET AND PROVIDED OTHER CASTINGS SHALL BE COMPLETELY INTERCHANGEABLE, I.E., THE COVERS OF THIS SHEET SHALL FIT PROPERLY, THE RINGS OF OTHER CASTING DETAILS AND THE COVERS OF OTHER CASTINGS SHALL FIT THE RINGS OF THIS SHEET.
- 8. MINIMUM WEIGHTS OF FINISHED CASTINGS: THE COVER = 60 POUNDS, THE RING = 135 POUNDS.



CONSULTANT'S SHEET No.

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DETAIL§

CORPUS CHRISTI
STANDARD

CITY OF WATER

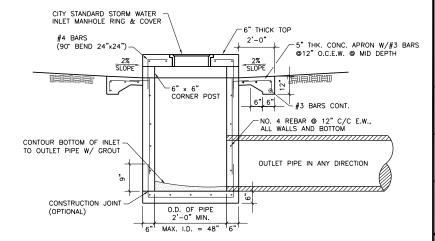
STORM

SHEET

RECORD DRAWING NO.

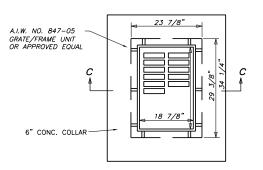
CITY PROJECT #

NOT TO SCALE



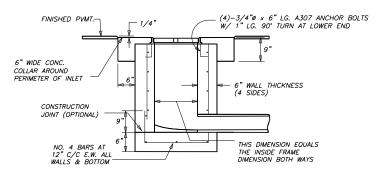
SECTION B-B

NOT TO SCALE



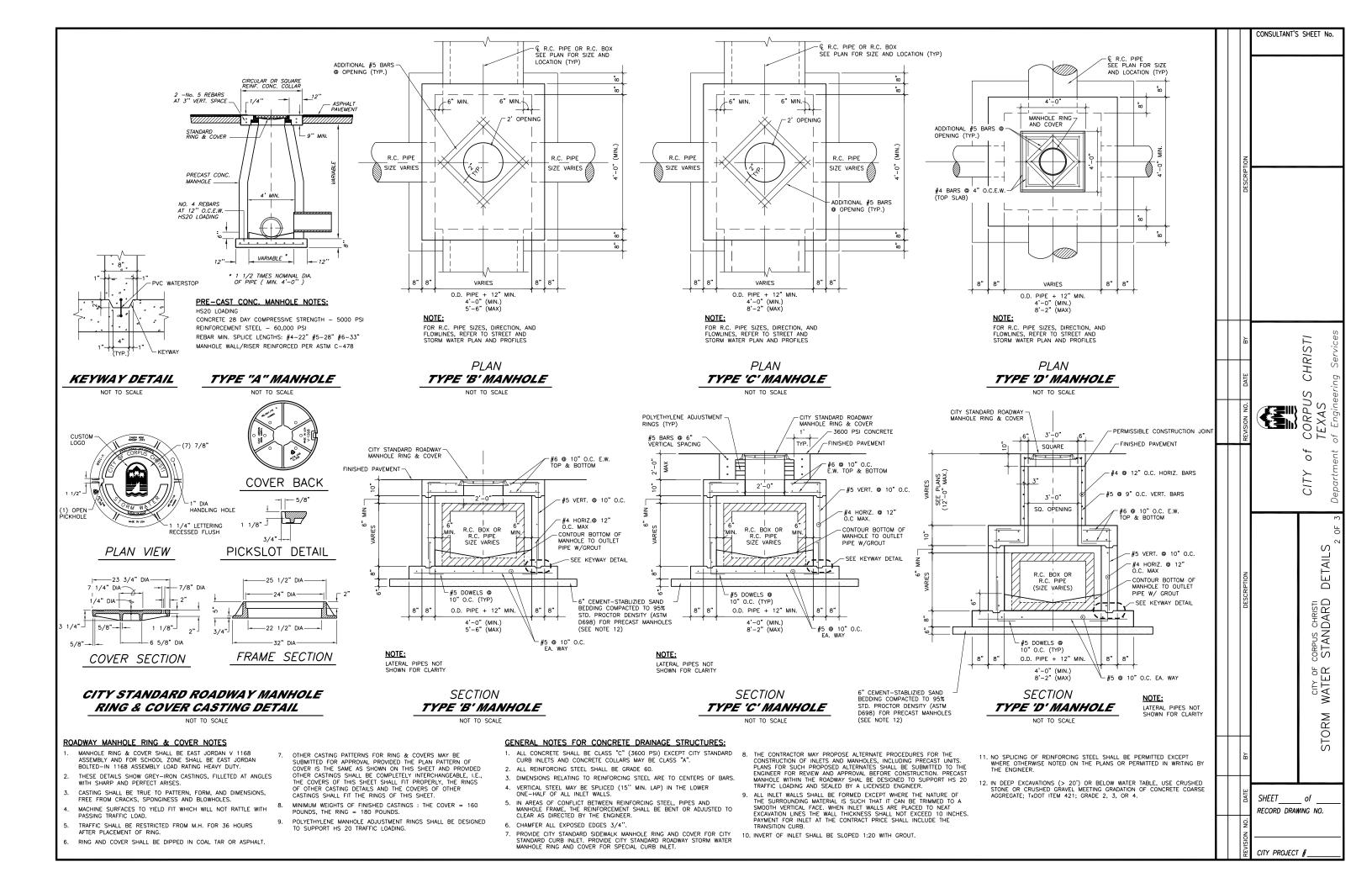
PLAN OF STANDARD GRATE INLET

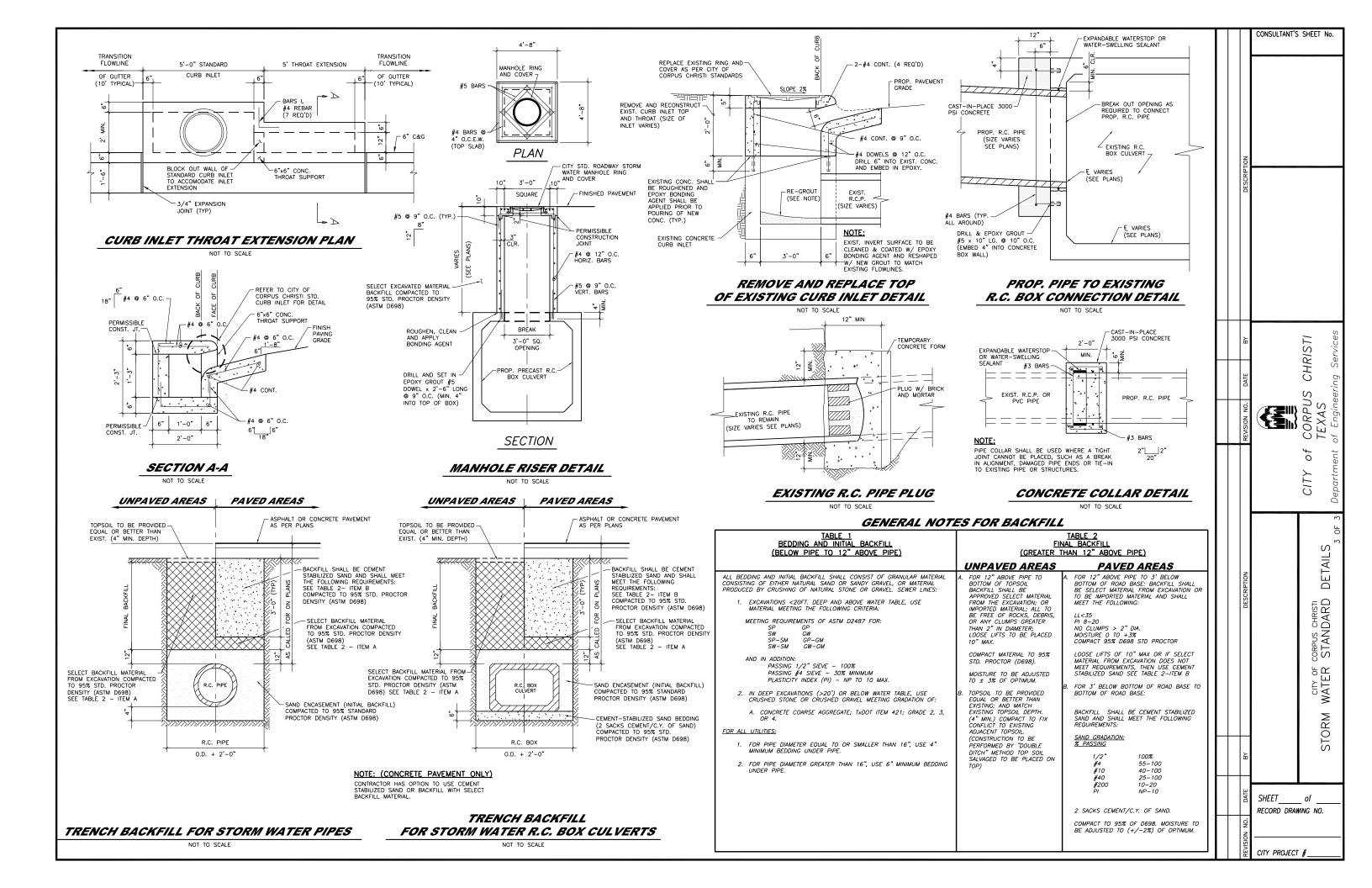
NOT TO SC



SECTION C-C

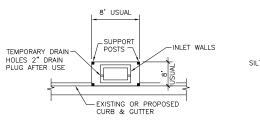
NOT TO SCALE





SITE DESCRIPTION	FRASIA	N AND SEDIMENT CONTROLS			CONSULTANT'S SHEET No.
PROJECT LIMITS:	SOIL STABILIZATION PRACTICES:	OTHER EROSION AND SEDIMENT CONTROLS:			
	TEMPORARY SEEDING	MAINTENANCE:			
PROJECT DESCRIPTION:	SOIL RETENTION BLANKET				
	PRESERVATION OF NATURAL RESOURCES				
	OTHER:			z	
		INSPECTION:		RIPTIO	
				DESC	
	STRUCTURAL PRACTICES.		_		
MAJOR SOIL DISTURBING ACTIVITIES:					
	DIVERSION, INTERCEPTOR, OR PERIMETER DIKES	WASTE MATERIALS:			
	DIVERSION DIKE AND SWALE COMBINATIONS	WASIE WATERIALS.			
	PAVED FLUMES ROCK BEDDING AT CONSTRUCTION EXIT				
	TIMBER MATTING AT CONSTRUCTION EXIT				
	STORM INLET SEDIMENT TRAP STONE OUTLET STRUCTURES	HAZARDOUS WASTE (INCLUDING SPILL REPORTING):		_	
	CURBS AND GUTTERS STORM SEWERS			œ l	ISTI vices
	VELOCITY CONTROL DEVICES				HRI.
	OTHER:		_	DATE	c C
	OTHER:			9	S S neer
		SANITARY WASTE:		NOIS (CORPUS TEXAS
	NARRATIVE - SEQUENCE OF CONSTRUCTION (STORM WATER MANAGEMENT) ACTIVITIES:		$= \sqcup$	REV	C C
					of ent
					7Y
TOTAL PROJECT AREA:					Cl
TOTAL AREA TO BE DISTURBED:		LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN EXCESS DIRT ON ROAD REMOVED DAILY		∃ŀ	3
WEIGHTED RUNOFF COEFFICIENT: (AFTER CONSTRUCTION):		STABILIZED CONSTRUCTION ENTRANCE			Z 6
EXISTING CONDITION OF SOIL & VEGETATIVE		OTHER:			H N 1 0 0
COVER AND % OF EXISTING VEGETATIVE COVER:				7	L /E /
			_	SIPTION	RE <
		REMARKS:	_	DESC	ES _
			_		CHRIS TES
					of corpus che POLLUTION LAN NOTES
NAME OF RECEIVING WATERS:					NO O N
					4 H
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					WAT
		AND SHALL OBTAIN ALL PERMITS AND FULFILL ALL PERMIT REQUIREMENTS, INCLUDING FEES, FOR T.C.E.Q. GENERAL PERMIT NO. TXR 150000 RELATING TO DISCHARGES			≥
		FROM CONSTRUCTION ACTIVITIES. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO NOTICE OF INTENT (NOI, REQUIRED SITE POSTINGS AND NOTICE OF TERMINATION			0. R
		(NOT). ALL ACTIVITIES WILL BE PERFORMED AT THE MILESTONES REQUIRED BY THE		m	ST
					SHEET of
			\vdash	→ J	RECORD DRAWING NO.
				Sion -	
				- KE	CITY PROJECT #

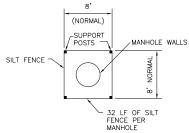
							CONSULT	ANT'S SHEET No.
Stormwater Pollution Prevention	- Clean Water Act Section 402		III. Cultural Resources		VI. Hazardous Materials or Contaminat	ion Issues		
	harge Permit or Construction General Pe	ermit required for		or archeological artifacts (bones, burnt rock, flint, pottery, etc.)	General (applies to all projects):			
	ped soil. Projects with any disturbed so			cease work in the immediate area and contact the Engineer	Comply with the Hazard Communic materials by conducting safety me	cation Act (the Act) for personnel who will be working with hazardous setings prior to beginning construction and making workers aware of a construction. Ensure that all workers are provided with personal protective ardous materials used.		
No Action Required	Required Action		No Action Required	Required Action		Safety Data Sheets, (MSDS) for all hazardous products used on the		
Action No.			Action No.		asphalt products, chemical additive protected storage, off bare ground	re not limited to the following categories: Paints, acids, solvents, es, fuels and concrete curing compounds or additives. Provide d and covered, for products which may be hazardous. Maintain	7	
Prevent stormwater pollution by a with TPDES Permit TXR 150000	ontrolling erosion and sedimentation in a	accordance	1.		product labelling as required by the	ne Act.	RIPTION	
Comply with the SW3P and revise the Engineer.	when necessary to control pollution or	required by	2. 3.		of a spill, take actions to mitigate	e the spill as indicated in the MSDS, in accordance with safe work t Spill Coordinator immediately. The Contractor shall be responsible	DESC	
Post Construction Site Notice, (CS accessible to the public and TCEC	SN) with SW3P information on or near th D, EPA or other inspectors.	he site,			Contact the Engineer if any of the	e follwing are detected:		
When Contractor project specific l acres or more, submit NOI to TCI	ocations (PSL's) increase disturbed soil CQ and the Engineer.	area to 5	4. 5.		* Dead or distressed vegeta' * Trash piles, drums, caniste * Undesirable smells or odor * Evidence of leaching or se	er, barrels, etc. s		
	rbodies and Wetlands Clean Water	Act Sections	IV. Vegetation Resources		Any other evidence indicating poss	sible hazardous materials or contamination discoverd on site.		
401 & 404 No Permit Required			Preserve native vegetation to	the extent practical.	Hazardous Materials or Cont	amination Issues Specific to this Project:		
USACE Permit required for fillir creeks, streams, wetlands or w	ng, dredging, excavating or other vet areas.	work in any water bodies, rivers,	☐ No Action Required	Required Action				
The Contractor must adhere to	all of the terms and conditions as	sociated with the following permit(s):	Action No.		No Action Required	Required Action	Ā	CHRISTI 9 Services
			1.		Action No.			HRI Ser
	t Required (less than 1/10th acre waters quired (1/10 to <1/2 acre, 1/3 in tidal α	· ·	2.		1.		DATE	S C
Individual 404 Permit Required			3.		2.		og (J.F.	PU PU AS
Other Nationwide Permit Required	d: NWP#		J.		3.		Nision	COR TEX.
	the US permit applies to, location in the ded to control erosion, sedimentation	· · ·	4.		4.		₩.	of (7 ent of
1.				Threatened and Endangered Species, Critical Habitat,	VII. Other Environmental Issues			7Y rtme
2.			State Listed Species, Candidat	e Species and Migratory Biras.	(Include applicable regional or site	specific enviromental issues.)		CI Sepa
3.			No Action Required	Required Action	No Action Required	Required Action		S 3
4.			Action No.		Action No.			
			1.		1.			PERMIT PIC) 2 0
Best Management Practices	3:		2.		2.		Notation	AL F
Erosion	Sedimentation	Post-Construction TSS	3.		3.		DESCI	
☐ Temporary Vegetation ☐ Blankets/Matting	Silt Fence	Vegetative Filter Strips						OF CORPUS CHRISTI ENVIRONMENTS ND COMMENTS
Mulch	Triangular Filter Dike	Extended Detention Basin	4.		4.			PUS RON NMN
Sodding	Sand Bag Berm	Constructed Wetlands						
☐ Interceptor Swale ☐ Diversion Dike	Straw Bale Dike Brush Berms	Wet Basin☐ Erosion Control Compost						\ P \ P \ P \
Erosion Control Compost	Erosion Control Compost	Mulch Filter Berm and Socks		oserved, cease work in the immediate area, do not disturb species or immediately. The work may not remove active nests from bridges and				CITY OF
Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks	other structures during nesting se	ason of the birds associated with the nests. If caves or sinkholes are nediated area, and contact the Engineer immediately.				AT ED
Compost Filter Berm and Socks	Compost Filter Berm and Socks	Vegetation Lined Ditches	discovered, educe work in the initial	location and contact the Engineer immediatory.				1 WATE
	Stone Outlet Sediment Traps Sediment Basins	Sand Filter Systems						STORM
							涵	STC
							 	
							SHEET_	of
							RECORD ♀	DRAWING NO.
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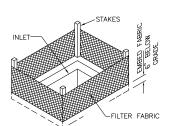


TYPICAL SILT FENCE INSTALLATION AT

CURB INLET - PLAN

NOT TO SCALE

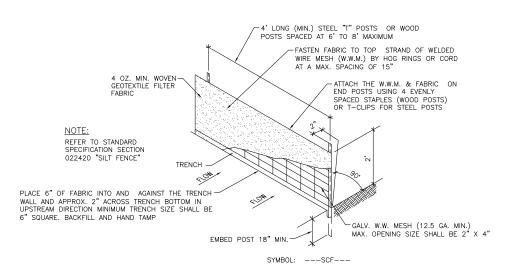




NOTES:

- FILTER FABRIC INLET PROTECTION SHALL BE USED DURING CONSTRUCTION TO CONTROL SEDIMENTATION
- PERIMETER SILT FENCING AROUND INLET LOCATIONS SHALL BE INSTALLED AFTER PIPE IS PLACED.
- FABRIC MATERIAL SHALL BE A NET-REINFORCED FENCE, USING WOVEN GEOTEXTILE FABRIC.
- 4. FENCE SHOULD BE REMOVED UPON COMPLETION OF

TEMPORARY FILTER FABRIC INLET PROTECTION DETAIL



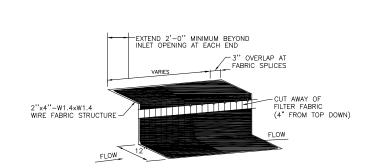
TEMPORARY SEDIMENT CONTROL FENCE DETAIL

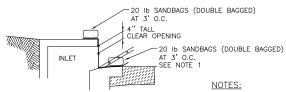
SEDIMENT CONTROL FENCE USAGE GUIDELINES:

SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE LARGER THEN 2 ACRES.

st The guidelines shown here are suggestions only and may be modified



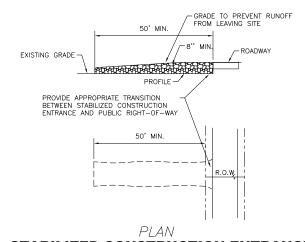


TYPICAL EROSION CONTROL INSTALLATION AT CURB INLET AFTER PLACEMENT OF CURB AND INLET TOP.

NOT TO SCALE

ROCK FILTER DAM NOTES:

- THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND/OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
- 3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE PLANS.
- 4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER.
- 5. ROCK FILTER DAM SHALL BE A MINIMUM OF TWO FEET IN THICKNESS AT TOP OF DAM.
- 6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO EXISTING GROUND.
- SHOWN ON THE PLANS.
- 8. ROCK FILTER DAM SHALL BE SECURED WITH 20 GUAGE GALVANIZED WOVEN WIRE MESH WITH 1"
 DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT
 & SLOPE SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE
 AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN
 STREAM USE THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT



STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION ENTRANCE NOTES: STONE SIZE: 3-5" OPEN GRADED ROCK.

- 2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
- THICKNESS: NOT LESS THAN 8".
- 4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
- WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
- DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

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CONSULTANT'S SHEET No

CURB INLET PRIOR TO PLACEMENT OF CURB AND INLET TOP.

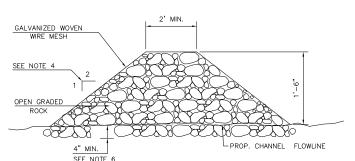
MANHOLE - PLAN

NOT TO SCALE

VARIES - REFER TO CHANNEL PLAN & PROFILES -GALVANIZED WOVEN WIRE MESH MIN. SEE NOTE

ROCK FILTER DAM AT EARTHEN BOTTOM CHANNEL

NOT TO SCALE



SECTION A-A

- 1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR
- 2. MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATIONS FOR "ROCK FILTER DAMS FOR EROSION AND SEDIMENT CONTROL."

- 7. THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNGER. SHALL BE OF THE DIMENSIONS.
- 9. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.)
- 10. THE GUIDLELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CURB INLET PROTECTION DETAIL

CURB INLET PROTECTION NOTES:

- 1. TO HOLD THE FILTER DIKE IN PLACE, 20 LB SANDBAGS SHALL BE USED AT 3' O.C. WHERE MINIMUM TO HOLD THE FILTER DIKE IN PLACE, 20 LB SANDBAGS SHALL BE USED AT 3' O.C. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1"X4" BOARD, SECURED WITH 1/4" OR 3/8" CONCRETE SCREWS. THE 1/4" OR 3/8" CONCRETE SCREWS SHALL BE ATTACHED TO THE GUTTER BY DRILLING AN APPROPRIATE PILOT HOLE WITH A CONCRETE BIT AND INSERT PLASTIC FASTENERS. THE TOP OF THE SCREW SHALL BE RECESSED BELOW THE TOP OF THE BOARD. THE SCREWS SHALL BE PLACED ON 3' O.C. THIS METHOD IS USED IN LIEU OF SANDBAGS, IN THE GUTTER ONLY, TO HOLD THE FILETE DIKE IN PLACE. UPON REMOVAL, EITHER LEAVE THE PLASTIC FASTENERS IN PLACE, OR REMOVE THE PLASTIC FASTENERS, CLEAN ANY DIRT/DEBRIS FROM THE SCREW LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH THE SURFACE OF THE GUTTER. THIS METHOD SHALL NOT BE USED ON THE INITET IN LIEU OF SANDBAGS.
- ON THE INLET IN LIEU OF SANDBAGS. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION. 3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2". INLET PROTECTION SHALL BE REPLACED AS NECESSARY DURING
- CONSTRUCTION DUE TO DAMAGE OR DETERIORATION (SUBSIDIARY TO INLET PROTECTION). 4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND ONLY REMOVE INLET PROTECTION IF DIRECTED BY THE CITY OF CORPUS CHRISTI, OR IF CONTRACTOR OBSERVES AN IMMINENT THREAT OF FLOODING OF SURROUNDING PROPERTY.
- 5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED