

BENCHMARK NOTES
PROJECT BENCHMARK
 CITY OF BRYAN MONUMENT GPS-117
 N:10234456.69, E:3538482.63, ELEV:338.00'
 (ELEVATION DATUM NAVD 1988, GEOID128)

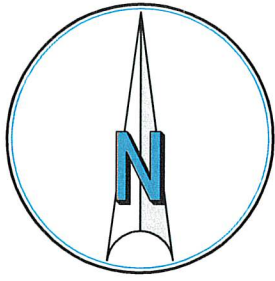
TBM #1
 5/8 INCH IRON ROD WITH RED PLASTIC CAP
 STAMPED 'KERR SURV. CONTROL POINT' SET
 126.43' FROM THE WEST CORNER HEREOF,
 303.70' FROM THE SOUTH CORNER HEREOF.
 N:10230489.72, E:3533889.13, ELEV: 325.17'

TBM #2
 5/8 INCH IRON ROD WITH A RED PLASTIC CAP
 STAMPED 'KERR SURV. CONTROL POINT' SET
 111.48' FROM THE WEST CORNER HEREOF, AND
 52.17' WEST OF A POWERPOLE
 N:10201784.76 E:3567806.31 ELEV: 327.46'

TBM #3
 5/8 INCH IRON ROD WITH RED PLASTIC CAP
 STAMPED 'KERR TRAV' SET 152.43' FROM THE
 WEST CORNER HEREOF ON THE NORTH SIDE OF
 HIGHWAY 21, 132.27' FROM THE NORTH CORNER
 HEREOF.
 N:10230739.84, E:3533982.27, ELEV: 325.11'

TBM #4
 5/8 INCH IRON ROD WITH RED PLASTIC CAP
 STAMPED 'KERR TRAV' SET 298.54' FROM THE
 WEST CORNER HEREOF, AND 203.90' WEST OF
 THE SOUTH CORNER HEREOF.
 N:10230291.19, E:3533937.14, ELEV: 328.47'

***COORDINATES SHOWN HEREON ARE TEXAS
 STATE PLANE CENTRAL ZONE GRID (NOT
 SURFACE) NAD 83 COORDINATES***



SCALE: 1" = 40'

1/2 INCH IRON ROD WITH A
 BLUE PLASTIC CAP STAMPED
 'KERR SURVEYING' SET

POINT OF BEGINNING
 5/8 INCH IRON ROD WITH A
 YELLOW PLASTIC CAP STAMPED
 'KERR 4502' FOUND (CM)

N. RIM SANITARY SEWER
 MANHOLE (CONCRETE): 325.90'
 FL 6" CLAY IN (SW): 322.13'
 FL 6" PVC IN (NE): 314.93'
 FL 6" PVC OUT (SW): 314.92'

GENERAL NOTES
 BEARING SYSTEM SHOWN HEREON IS BASED ON THE TEXAS COORDINATE SYSTEM
 OF 1983, CENTRAL ZONE (4203), GRID NORTH AS ESTABLISHED FROM GPS
 OBSERVATION USING THE LEICA SMARTNET NAD83 (NA2011) EPOCH 2010
 MULTI-YEAR CORS SOLUTION 2 (MYCS2).
 DISTANCES SHOWN HEREON ARE SURFACE DISTANCES UNLESS OTHERWISE NOTED.
 TO OBTAIN GRID DISTANCES (NOT AREAS) DIVIDE BY A COMBINED SCALE FACTOR
 OF 1.00011350800672 (CALCULATED USING GEOID128).
 (CM) INDICATES CONTROLLING MONUMENT FOUND AND USED TO ESTABLISH
 PROPERTY BOUNDARIES.
 NO BUILDINGS WERE LOCATED ON THE PROPERTY AT THE TIME OF SURVEY.
 ALL BEARINGS AND DISTANCES ARE CALLED AND MEASURED FROM THE DEED
 RECORDED IN VOLUME 12419, PAGE 184 (OPRBCT).
 THIS SURVEY PLAT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE
 COMMITMENT. EASEMENTS AND OTHER MATTERS MAY APPLY.
 THIS PLAT WAS PREPARED IN CONJUNCTION WITH A FIELD NOTES DESCRIPTION
 (METES AND BOUNDS). THE PLAT AND FIELD NOTES ARE INTENDED TO BE ONE
 INSTRUMENT TOGETHER.

LEGEND:
 DRBCT = DEED RECORDS OF
 BRAZOS COUNTY, TEXAS
 ORBCT = OFFICIAL RECORDS OF
 BRAZOS COUNTY, TEXAS
 OPRBCT = OFFICIAL PUBLIC
 RECORDS OF BRAZOS COUNTY,
 TEXAS
 123/456 = VOLUME AND PAGE
 FROM PUBLIC COUNTY RECORDS
 N/F = NOW OR FORMERLY
 () = RECORD INFORMATION
 ⊕ MONITORING WELL
 Ⓜ WATER METER
 Ⓢ SANITARY SEWER MANHOLE
 Ⓣ UTILITY POLE
 Ⓤ GUY WIRE
 Ⓤ GAS METER
 Ⓤ METRONET BOX
 AERIAL TELEPHONE LINES
 AERIAL ELECTRIC LINES
 WOOD FENCE
 CHAIN LINK FENCE
 WIRE MESH FENCE
 CONCRETE
 GRAVEL
 ASPHALT

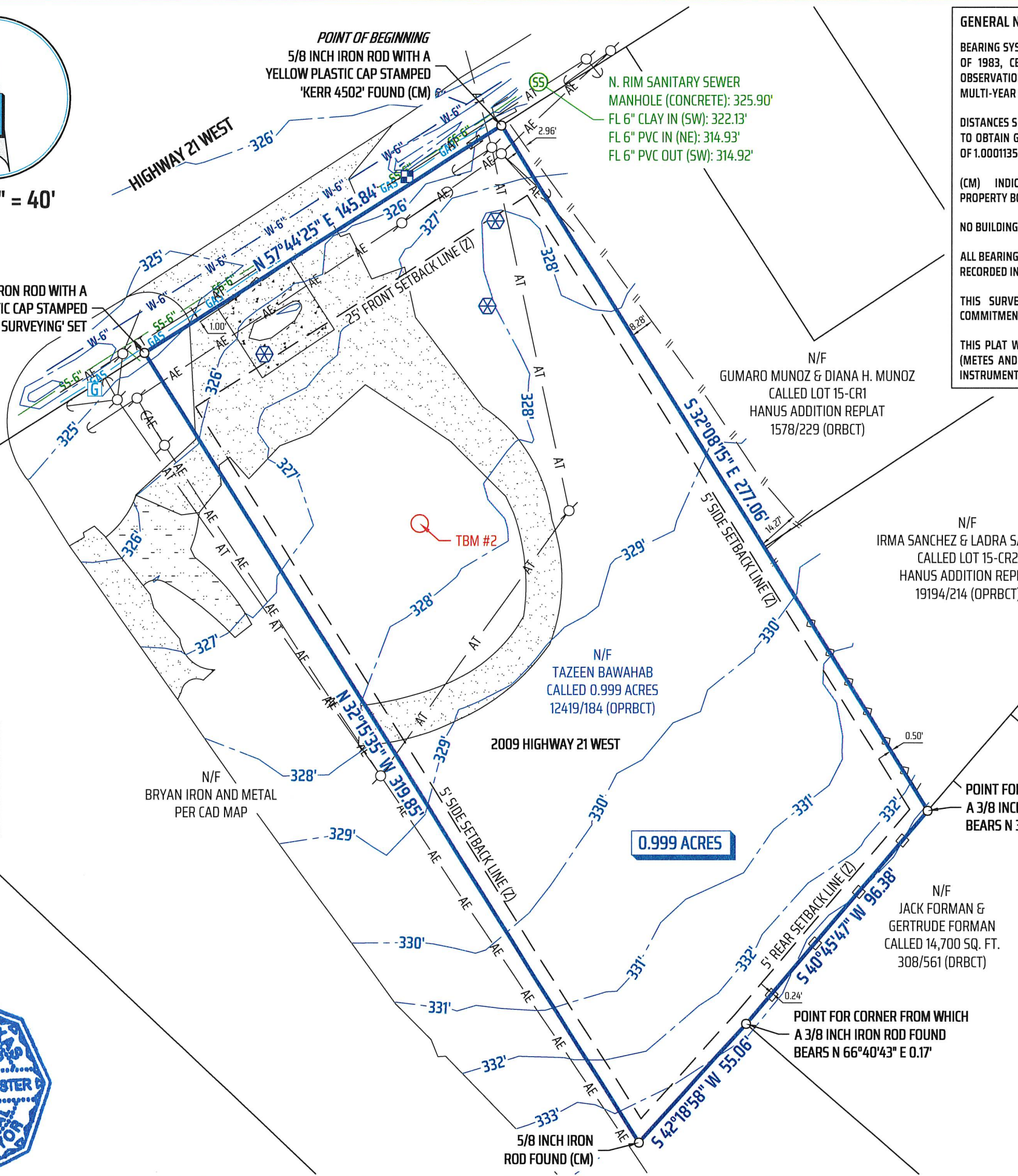
APPROXIMATE LOCATION OF
 6" SANITARY SEWER LINE
 SS-6"
 APPROXIMATE LOCATION OF
 6" WATER LINE
 W-6"
 APPROXIMATE LOCATION OF
 BURIED GAS LINE
 GAS

ZONING SETBACK NOTES
 ACCORDING TO THE CITY OF BRYAN ONLINE
 ZONING MAP REFERENCED ON 08-05-2024,
 THIS TRACT IS ZONED RETAIL DISTRICT [C-2]
 AND IS SUBJECT TO THE FOLLOWING BUILDING
 SETBACKS (Z) AS SHOWN HEREON:
 FRONT SETBACK - 25'
 SIDE SETBACK (INTERIOR) - 5'
 REAR SETBACK - 5'

FLOOD PLAIN NOTES:
 THIS TRACT LIES WITHIN FLOOD ZONE 'X' UNSHADED AND DOES NOT
 LIE WITHIN A SPECIAL FLOOD HAZARD AREA SUBJECT TO THE 1%
 ANNUAL CHANCE FLOOD (100 YEAR FLOOD PLAIN) ACCORDING TO THE
 BRAZOS COUNTY FLOOD INSURANCE RATE MAP (FIRM) PANEL NO.
 48041C0195E, REVISED DATE: 05-16-2012.

SURVEYOR'S CERTIFICATE:
 I, DAVID POWELL BRISTER, R.P.L.S. NO. 6537, DO HEREBY CERTIFY
 THAT THIS SURVEY SUBSTANTIALLY COMPLIES WITH THE CURRENT
 TEXAS SOCIETY OF PROFESSIONAL SURVEYORS MANUAL OF
 PRACTICE REQUIREMENTS FOR A CATEGORY 1B & 6, CONDITION 3,
 STANDARD LAND SURVEY & TOPOGRAPHIC SURVEY AS MADE ON THE
 GROUND UNDER MY SUPERVISION.

198524
 DAVID POWELL BRISTER
 REGISTERED PROFESSIONAL
 LAND SURVEYOR NO. 6537



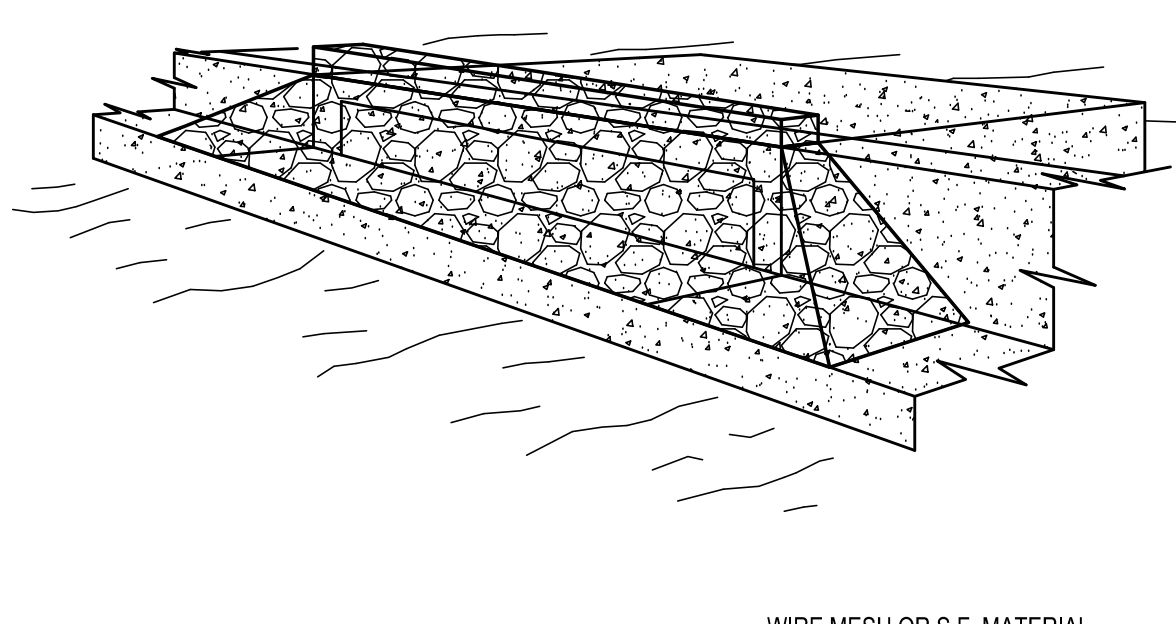
TSPS STANDARD LAND SURVEY PLAT & TOPOGRAPHIC SURVEY
 OF A
0.999 ACRE TRACT
 CALLED TO BE 0.999 ACRES IN
 VOLUME 12419, PAGE 184 OPRBCT
STEPHEN F. AUSTIN SURVEY SECTION 9, ABSTRACT 62
 BRYAN, BRAZOS COUNTY, TEXAS

SCALE: 1 INCH = 40 FEET
 SURVEY DATE: 07-31-2024 | PLAT DATE: 08-05-2024
 JOB NUMBER: 24-698 | CAD NAME: 24-698-TOPO
 POINT FILE: BOT-GTG (cont); 24-698 (job)
 DRAWN BY: WW CHECKED BY: DB
 PREPARED BY: KERR SURVEYING, LLC
 TBPELS FIRM#10018500
 1718 BRIARCREST DRIVE, BRYAN, TEXAS 77802
 PHONE: (979) 268-3195
 SURVEYS@KERRSURVEYING.NET | KERRLANDSURVEYING.COM

KERR SURVEYING

"When one person stands
 to gain over another, the
 facts must be uncovered"

THIS DRAWING AND RELATED SPECIFICATIONS, INCLUDING ALL DOCUMENTS ON ELECTRONIC MEDIA, WERE PREPARED BY BEAMON ENGINEERING AS INSTRUMENTS OF SERVICE AND SHALL BE USED ONLY FOR THE PROJECT AND SITE FOR WHICH THEY WERE PREPARED. ANY UNAUTHORIZED REUSE OR MODIFICATION OF THIS DRAWING OR ANY INFORMATION CONTAINED HEREIN IS STRICTLY PROHIBITED AND WILL BE CONSIDERED A VIOLATION OF APPLICABLE LAWS AND REGULATIONS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

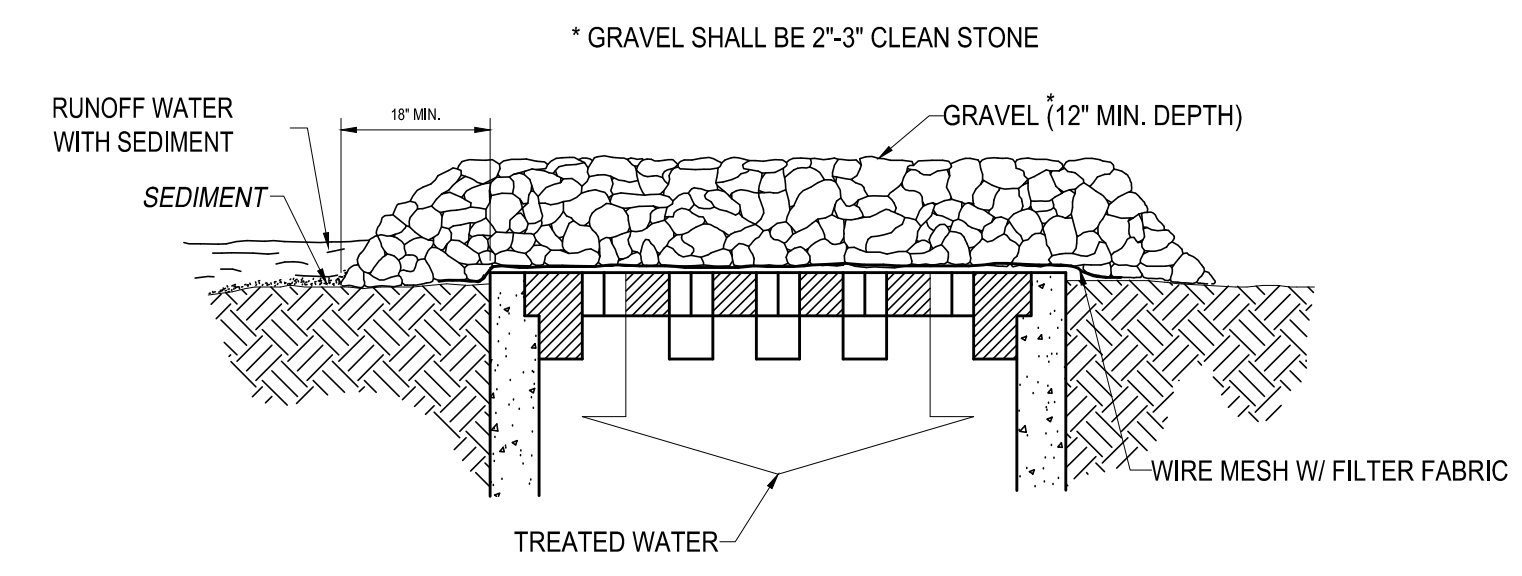


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE 2"-3" CLEAN STONE

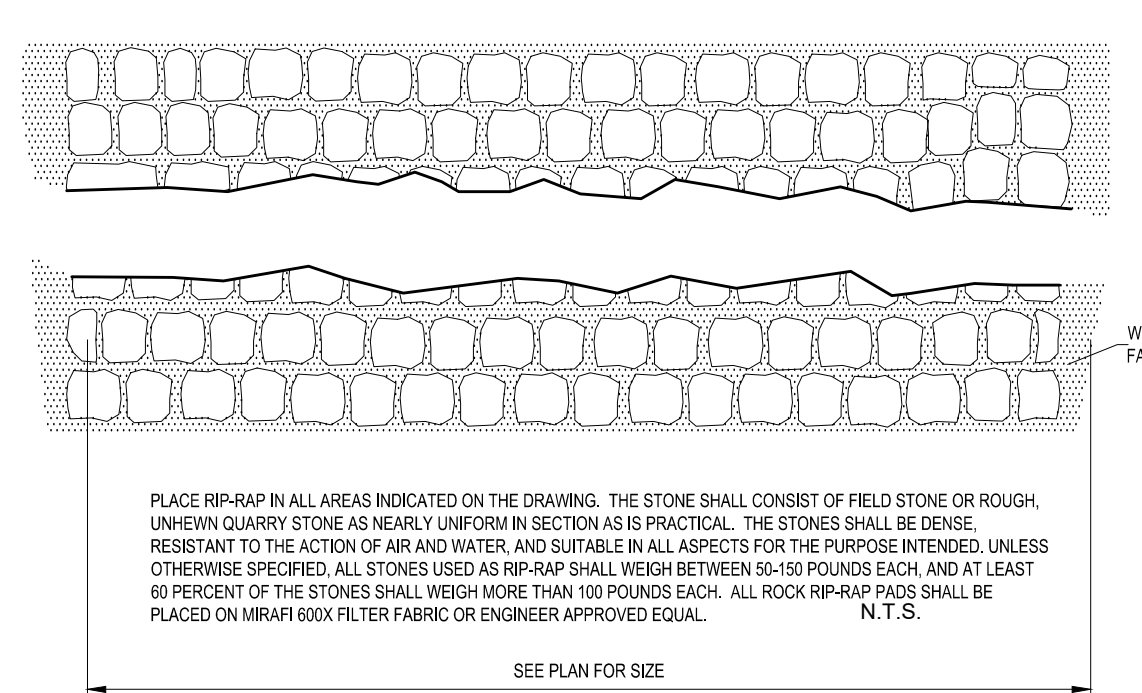
GRAVEL CURB INLET SEDIMENT FILTER (IP2)
N.T.S.



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL AND WIRE MESH INLET SEDIMENT FILTER (IP3)
N.T.S.



PLACE RIP-RAP IN ALL AREAS INDICATED ON THE DRAWING. THE STONE SHALL CONSIST OF FIELD STONE OR ROUGH, UNWEAR QUARRY STONE AS NEARLY UNIFORM IN SECTION AS IS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED, UNLESS OTHERWISE SPECIFIED. ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 50-150 POUNDS EACH, AND AT LEAST 80 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH. ALL ROCK RIP-RAP PADS SHALL BE PLACED ON WIRMAF 600X FILTER FABRIC OR ENGINEER APPROVED EQUAL.

ROCK RIP-RAP (RR)
N.T.S.

STORM WATER POLLUTION PREVENTION SYSTEM INSPECTIONS AND MAINTENANCE

BETWEEN THE TIME THIS SWPPP IS IMPLEMENTED AND FINAL SITE STABILIZATION IS ACHIEVED, ALL DISTURBED AREAS AND POLLUTANT CONTROLS MUST BE INSPECTED AT LEAST ONCE EVERY FOURTEEN CALENDAR DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. THE PURPOSE OF SITE INSPECTIONS IS TO ASSESS PERFORMANCE OF POLLUTANT CONTROLS. THE INSPECTIONS WILL BE CONDUCTED BY THE GENERAL CONTRACTOR'S DESIGNATED REPRESENTATIVE, BASED ON THESE INSPECTIONS, THE GENERAL CONTRACTOR WILL DECIDE WHETHER IT IS NECESSARY TO MODIFY THIS SWPPP, ADD OR RELOCATE SEDIMENT BARRIERS, OR OTHERWISE ELSE MAY BE NEEDED IN ORDER TO PREVENT POLLUTANTS FROM LEAVING THE SITE VIA STORM WATER RUNOFF. THE GENERAL CONTRACTOR HAS THE DUTY TO CAUSE POLLUTANT CONTROL MEASURES TO BE REPAIRED, MODIFIED, MAINTAINED, SUPPLEMENTED, OR WHATEVER ELSE IS NECESSARY IN ORDER TO ACHIEVE EFFECTIVE POLLUTANT CONTROL.

EXAMPLES OF PARTICULAR ITEMS TO EVALUATE DURING SITE INSPECTIONS ARE LISTED BELOW. THIS LIST IS NOT INTENDED TO BE COMPREHENSIVE. DURING EACH INSPECTION THE INSPECTOR MUST EVALUATE OVERALL POLLUTANT CONTROL SYSTEM PERFORMANCE AS WELL AS PARTICULAR DETAILS OF INDIVIDUAL SYSTEM COMPONENTS. ADDITIONAL FACTORS SHOULD BE CONSIDERED AS APPROPRIATE TO THE CIRCUMSTANCES.

LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED WHERE VEHICLES ENTER AND EXIT. THIS ENTRANCE WILL BE MAINTAINED OR SUPPLEMENTED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE ON VEHICLES.

SEDIMENT BARRIERS MUST BE INSPECTED AND, IF NECESSARY, THEY MUST BE ENLARGED OR CLEANED IN ORDER TO PROVIDE ADDITIONAL CAPACITY. ALL MATERIAL EXCAVATED FROM BEHIND SEDIMENT BARRIERS WILL BE STOCKPILED ON THE UP-SLOPE SIDE. ADDITIONAL SEDIMENT BARRIERS MUST BE CONSTRUCTED AS NEEDED.

INSPECTIONS WILL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVER MUST BE REPAIRED OR SUPPLEMENTED. ALSO PROTECTIVE BARRIERS MUST BE CONSTRUCTED, IF NEEDED, IN ORDER TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS.

GRASSSED AREAS WILL BE INSPECTED TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED. THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT OR HAVE A STAND OF GRASS WITH AT LEAST 70 PERCENT DENSITY. THE DENSITY OF 70 PERCENT OR GREATER MUST BE MAINTAINED TO BE CONSIDERED AS STABILIZED. AREAS MUST BE WATERED, FERTILIZED, AND RESEDED AS NEEDED TO ACHIEVE THIS GOAL. ALL DISCHARGE POINTS MUST BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.

EXAMPLES FOR MAINTENANCE ITEMS ARE LISTED BELOW. THIS LIST IS NOT INTENDED TO BE COMPREHENSIVE. ADDITIONAL PROCEDURES SHOULD BE CONSIDERED AS APPROPRIATE TO EACH INDIVIDUAL CIRCUMSTANCE.

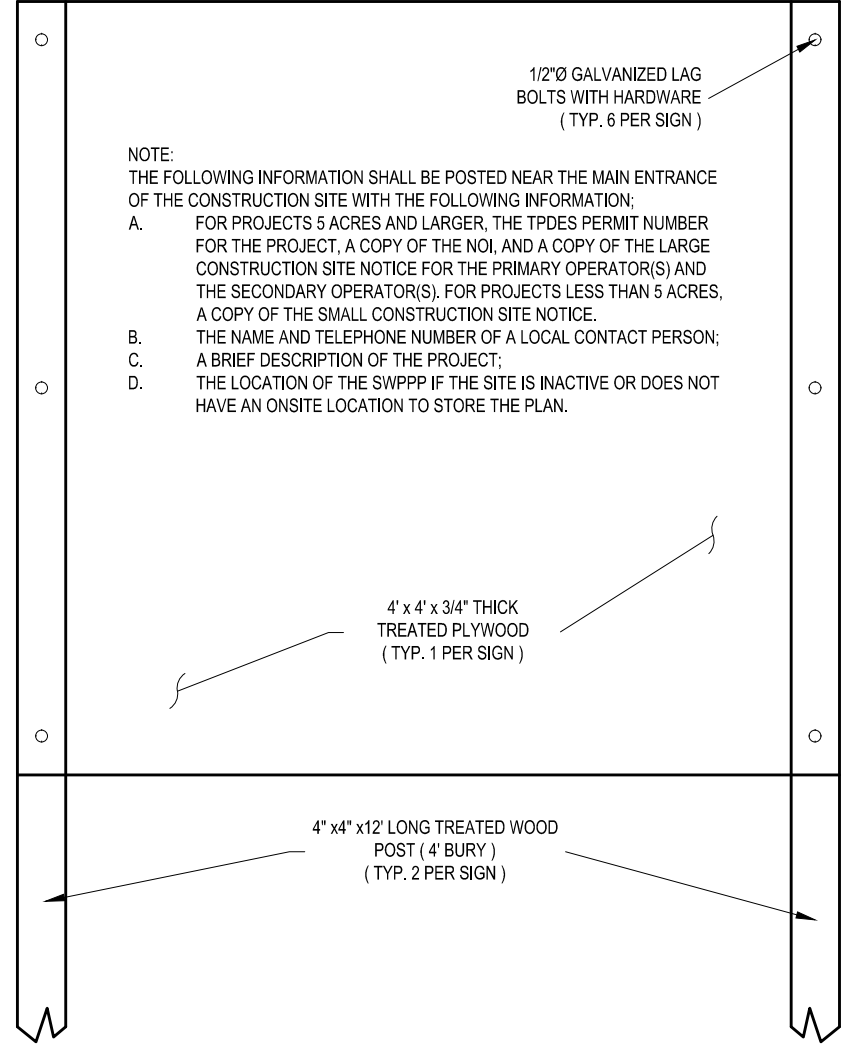
A. EROSION AND SEDIMENT CONTROL MEASURES THAT HAVE BEEN IMPROPERLY INSTALLED OR HAVE BEEN DISABLED, RUN-OVER, REMOVED OR OTHERWISE RENDERED INEFFECTIVE MUST BE REPAIRED OR CORRECTED IMMEDIATELY. MAINTENANCE AND REPAIRS WILL BE CONDUCTED WITHIN 24 HOURS OF INSPECTION REPORT.

B. SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC FENCE WHEN IT REACHES ABOUT 1/3 THE HEIGHT OF THE FENCE. SEDIMENT WILL BE REMOVED FROM AROUND THE INLET BARRIERS AND DIKES WHEN THE STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED.

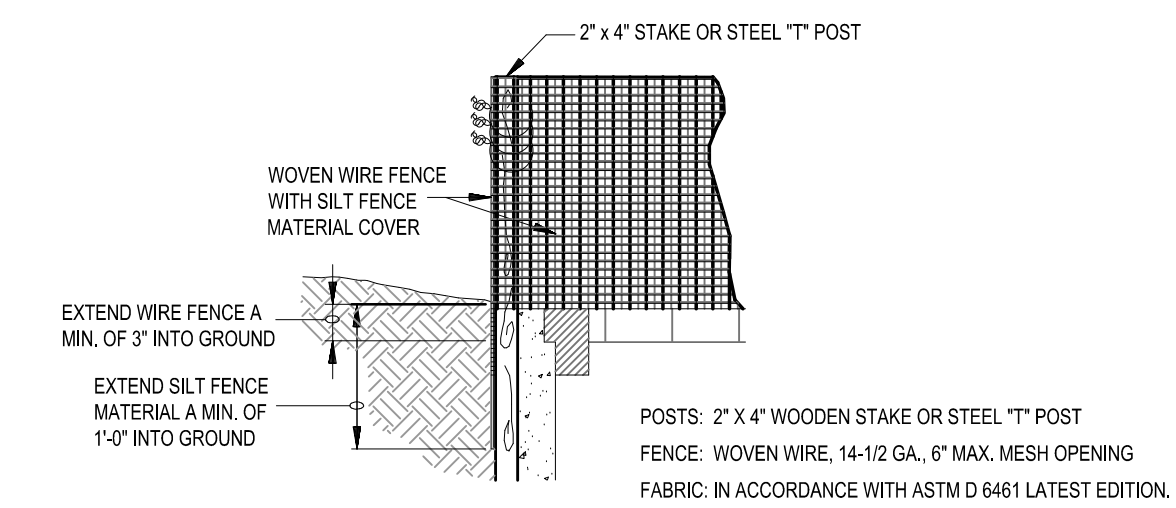
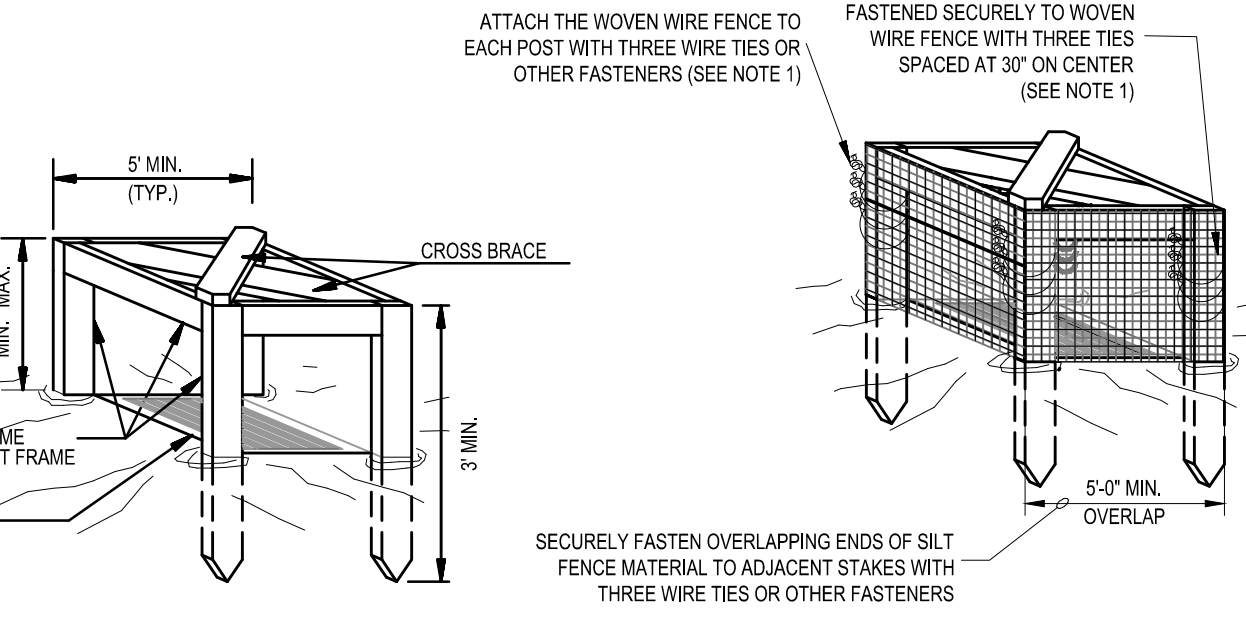
C. BASED ON INSPECTION RESULTS, ANY MODIFICATION NECESSARY TO INCREASE THE EFFECTIVENESS OF THIS SUPPLY TO AN ACCEPTABLE LEVEL MUST BE MADE WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE INSPECTION REPORTS MUST BE COMPLETED ENTIRELY AND ADDITIONAL REMARKS SHOULD BE INCLUDED IF NEEDED TO FULLY DESCRIBE A SITUATION. AN IMPORTANT ASPECT OF THE INSPECTION REPORT IS THE DESCRIPTION OF ADDITIONAL MEASURES THAT NEED TO BE TAKEN TO ENHANCE PLAN EFFECTIVENESS. THE INSPECTION REPORTS MUST IDENTIFY WHETHER THE SITE IS IN COMPLIANCE WITH THE SWPPP AT THE TIME OF INSPECTION AND SPECIFICALLY IDENTIFY ALL INCIDENTS OF NON-COMPLIANCE.

D. INSPECTION REPORTS MUST BE KEPT ON FILE BY THE GENERAL CONTRACTOR AS AN INTEGRAL PART OF THIS SWPPP FOR AT LEAST THREE YEARS FROM THE DATE OF COMPLETION OF THE PROJECT.

ULTIMATELY, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ASSURE THE ADEQUACY OF SITE POLLUTANT DISCHARGE CONTROLS. ACTUAL PHYSICAL SITE CONDITIONS OR CONTRACTOR PRACTICES COULD MAKE IT NECESSARY TO INSTALL MORE STRUCTURAL CONTROLS THAN ARE SHOWN ON THE PLANS. (FOR EXAMPLE, LOCALIZED CONCENTRATIONS OF RUNOFF COULD MAKE IT NECESSARY TO INSTALL ADDITIONAL SEDIMENT BARRIERS), ASSESSING THE NEED FOR ADDITIONAL CONTROLS AND IMPLEMENTING THEM OR ADJUSTING EXISTING CONTROLS WILL BE A CONTINUING ASPECT OF THIS SWPPP UNTIL THE SITE ACHIEVES FINAL STABILIZATION.



PROJECT SIGN DETAIL
N.T.S.



1. ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE (SPACED EVERY 30\"/>
- 2. WHEN TWO SECTIONS OF SILT FENCE MATERIAL ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
- 3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-HALF THE HEIGHT OF THE FABRIC. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ONE-HALF THE HEIGHT OF THE SILT FENCE MATERIAL ABOVE GRADE.
- 4. ALL SILT FENCE INLETS SHALL INCLUDE WIRE SUPPORT.

SILT FENCE INLET PROTECTION (IP1)
N.T.S.

EROSION CONTROL MAINTENANCE

1. ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY FOURTEEN CALENDAR DAYS AND WITHIN 24 HOURS OF A 0.5\"/>
- 2. ALL SEEDING AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEDED AS NEEDED.
- 3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- 4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- 5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- 6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS REQUIRED BY THE CITY ENGINEER.

NOTE:

POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT ALL CONCRETE INTO THE PIT AND WHERE ELSE.

NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.

EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.

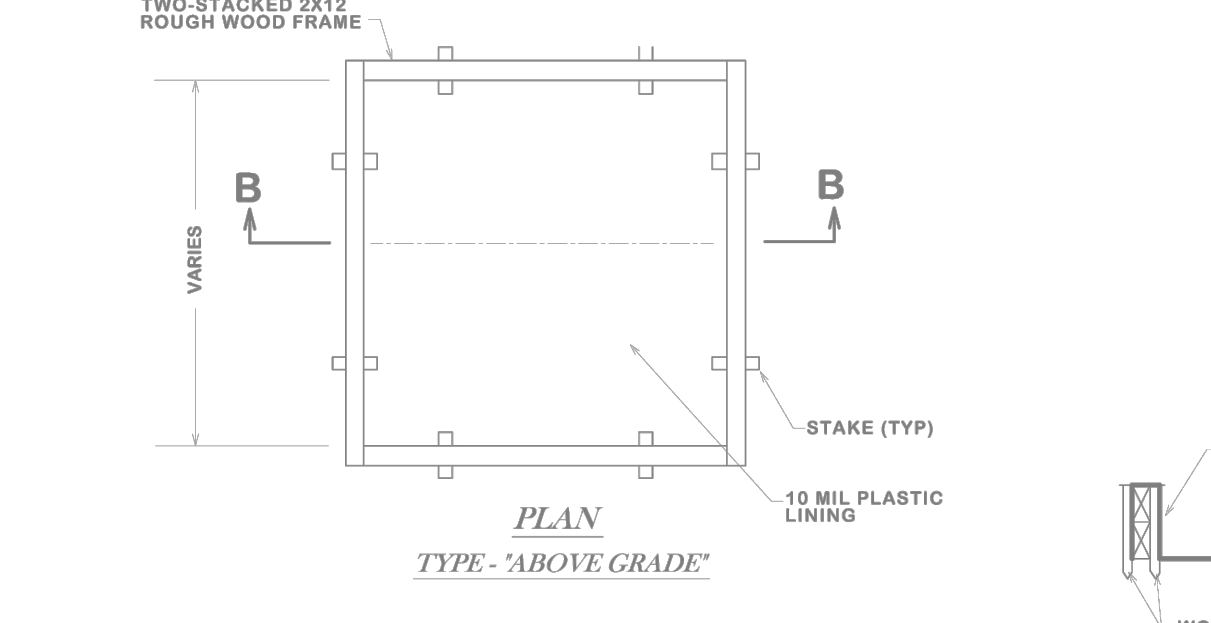
ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.

TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL. PLASTIC LINING MATERIAL WILL BE MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.

WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OFF-SITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES DISPOSED OF, BELOW GRADE PITS SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.

CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCK EQUIPMENT.



STABILIZED CONSTRUCTION EXIT
N.T.S.

CONSTRUCTION NOTES:

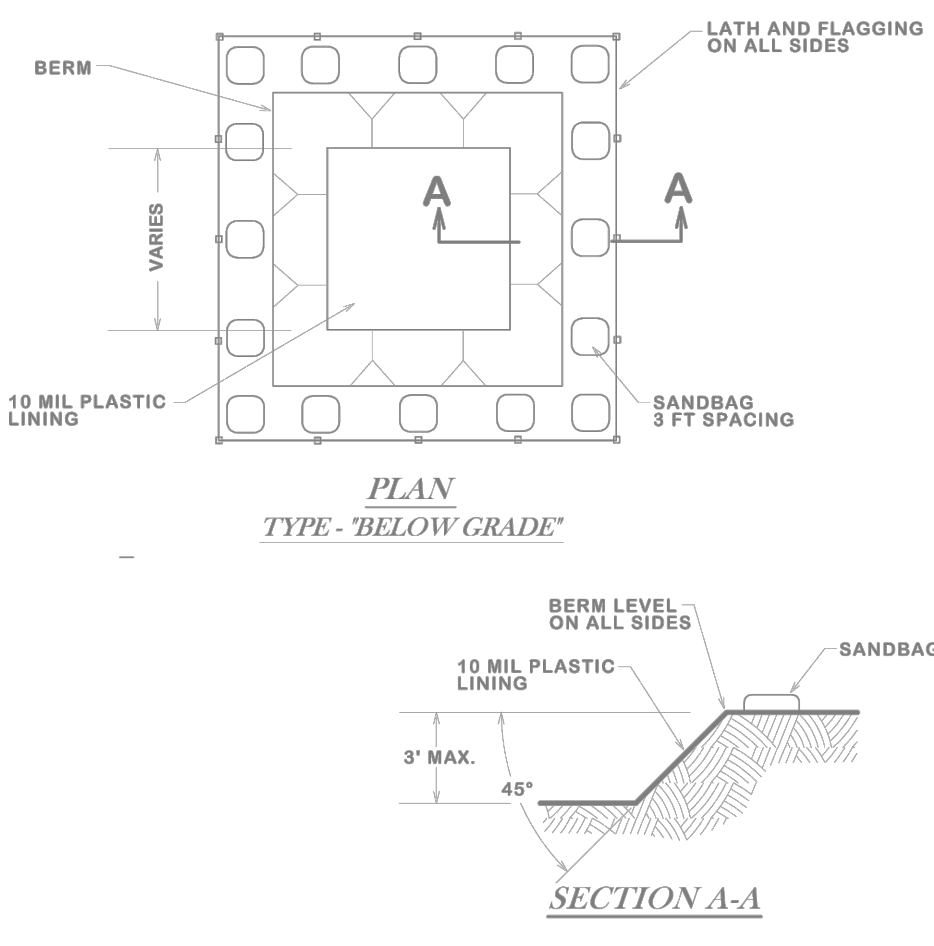
1. GRADATION OF ROCK.
2. THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE DRESSING WITH ADDITIONAL STONE AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
3. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WASHING SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT CONTROLLING STRUCTURE. USE SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS TO PREVENT SEDIMENT FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

SIZE OF ROCK LBS.	% SMALLER BY WEIGHT
200	100
50	35 - 65
3	0

TEMPORARY SEEDING NOTES

NOTES:

1. THE GC IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT LIKELY RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
2. THE GC HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
3. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE FORM OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER.
4. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS).
5. IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS.
6. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS.
7. ALL ROLLED EROSION CONTROL PRODUCTS SHALL HAVE CURRENT QDO(MT) STATUS ISSUED BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC) PLUS ANY STATE OR AGENCY-SPECIFIC REQUIREMENTS. EVIDENCE OF QDO(MT) APPROVAL SHALL ACCOMPANY THE PRODUCT SHIPPED TO THE JOBSITE FOR READY IDENTIFICATION BY THE CONTRACTOR OR AGENCY INSPECTOR.
8. ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATES) AND VEGETATED AREAS NOT MEETING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE REPLACED DAILY. RULING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.



PLAN TYPE - "BELOW GRADE"

SECTION A-A

SECTION B-B

GENERAL EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING (SITE MAP), THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (TPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE REQUIRED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
5. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS, AND MUST BE MAINTAINED ON-SITE AT ALL TIMES.
6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE PERMIT.
7. GENERAL CONTRACTOR SHALL DEVELOP THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA AND AS A STAGING AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON-SITE OR READILY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR CHEMICAL SPILLS OR LEAKS.
10. DUST ON THE SITE SHALL BE CONTROLLED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 21 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDING NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDING NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
17. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
18. ON-SITE & OFF-SITE SOIL STOCKPILE & BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
20. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) TO PREVENT EROSION.
21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

BEAMON ENGINEERING
TYPE: FIRM NO. FZ-2508 1812
BENJAMINE BRYAN, TEXAS 75707
FAX: (936) 271-2407

Daniel P. Beamon
NOVEMBER 15, 2024

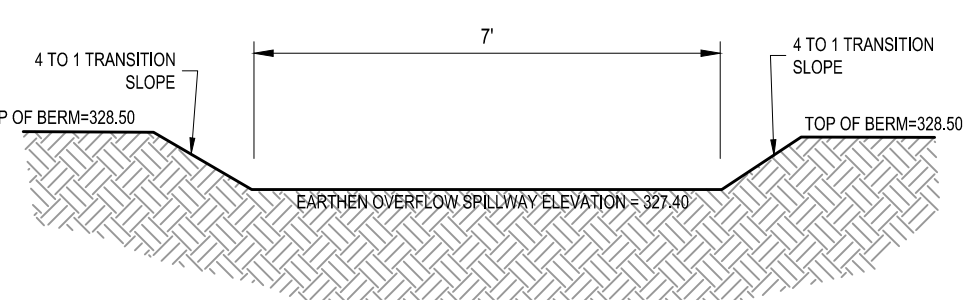
BRYAN FOOD EXCHANGE
LOTS 16, BLOCK 5
HANUS ADDITION
2009 SH-21 BRYAN, TEXAS

NO.	DATE	DESCRIPTION	BY

EROSION CONTROL PLAN DETAILS

SILT FENCE ASSEMBLY

SWPP1-03



DETENTION POND SPILLWAY, T.S.

N. RIM SANITARY SEWER
 MANHOLE (CONCRETE): 325.90'
 FL 6" CLAY IN (SW): 322.13'
 FL 6" PVC IN (NE): 314.93'
 FL 6" PVC OUT (SW): 314.92'

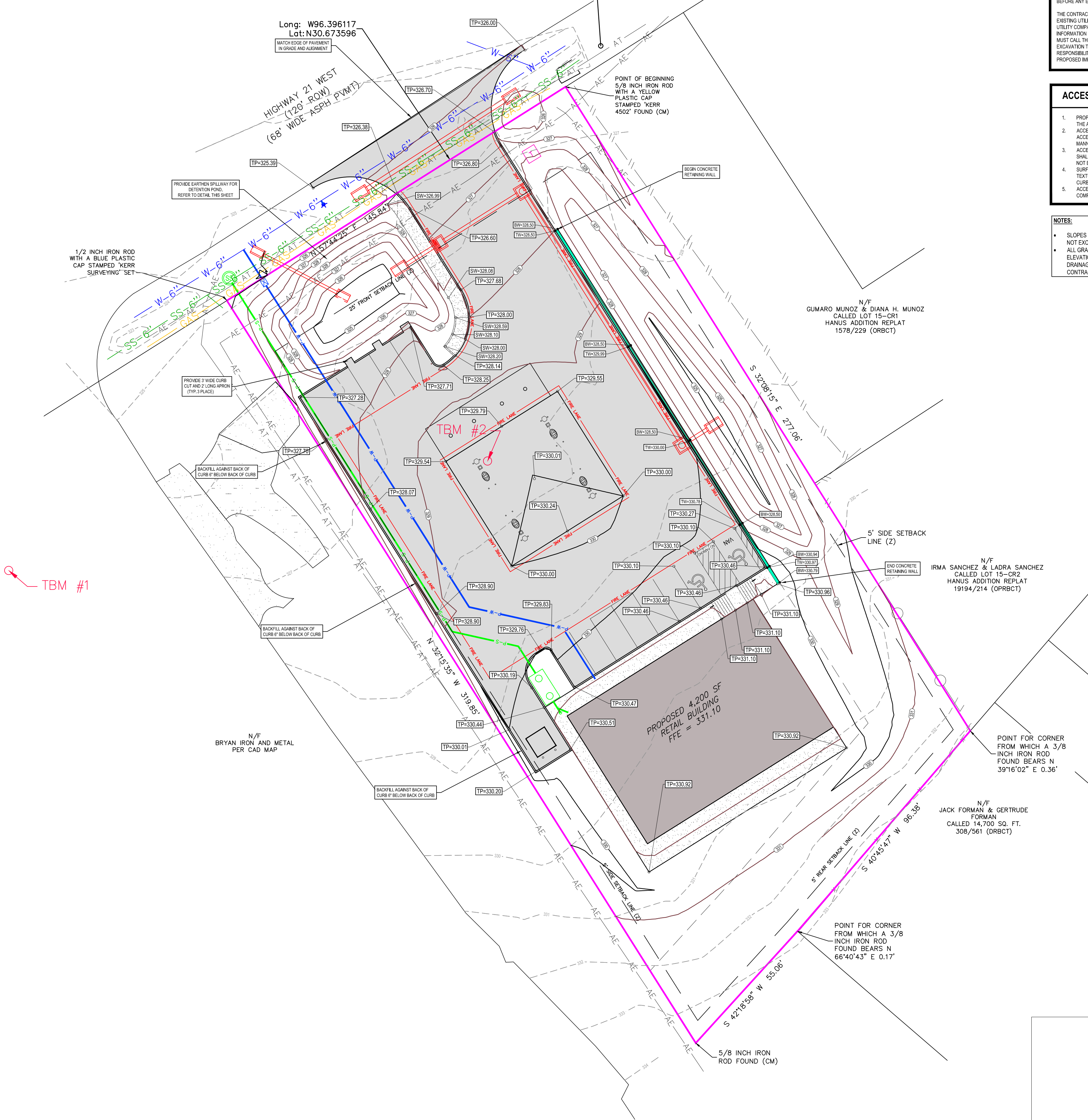
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

GENERAL GRADING NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- ALL CUT OR HILL SLOPES SHALL BE 4:1 MAXIMUM UNLESS OTHERWISE NOTED.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 4 INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREAS SHALL THEN BE SOODED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3:1 OR STEEPER. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT.
- PROPOSED GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT.
- CONTRACTOR SHALL ADJUST GRADES ADJACENT TO EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS AND SUBGRADE PREPARATION.

SEEDING AND MULCHING NOTE

CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS WITHIN THE SUBJECT BOUNDARY NOT PAVED OR OTHERWISE COVERED. PER THE SPECIFICATIONS, ALL AREAS DISTURBED OUTSIDE THE PROPERTY BOUNDARY SHALL ALSO BE SEEDING AND MULCHING AND COVER SHALL BE ESTABLISHED TO PREVENT EROSION. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATERINGS UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.



****CAUTION** - NOTICE TO CONTRACTOR**

THE CONTRACTOR IS PUT ON NOTICE THAT THERE MAY BE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, SUCH AS WATER, SEWER, GAS, PIPELINE, TELEPHONE AND ELECTRIC. SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN ON THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES.

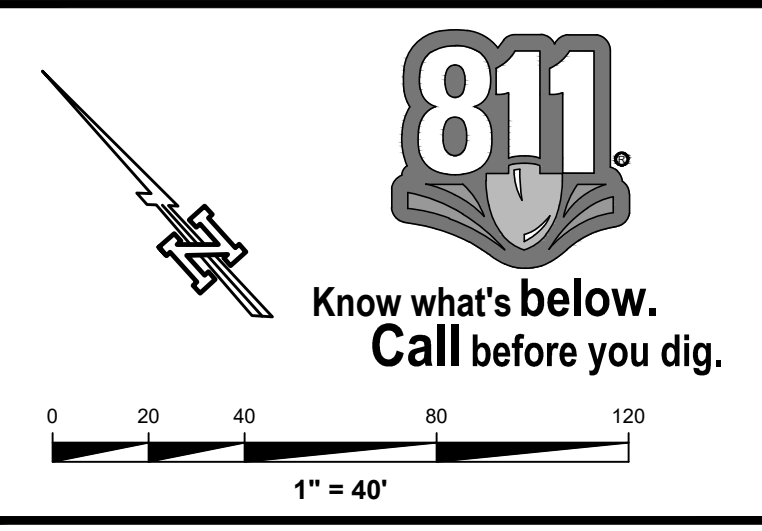
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENT SHOWN ON THE PLANS.

ACCESSIBILITY NOTES

- PROPOSED CONSTRUCTION ON THIS SITE SHALL COMPLY WITH THE LATEST REVISION OF THE ADA REGULATIONS AND THE TEXAS ACCESSIBILITY STANDARDS (TAS).
- ACCESSIBLE ROUTES SHALL NOT HAVE A CROSS SLOPE GREATER THAN 2.0% (1:48).
- ACCESSIBLE ROUTE SURFACE SHALL BE SLIP RESISTANT AND CONSTRUCTED IN A MANNER THAT WILL NOT RETAIN WATER AND BE A MINIMUM OF 3 FEET WIDE.
- ACCESSIBLE ROUTES WITH A RUNNING SLOPE GREATER THAN 5.0% (1:20) IS A RAMP AND SHALL BE CONSTRUCTED WITH HANDRAILS AND 5' X 5' LANDINGS. RAMP SLOPE SHALL NOT EXCEED 8.33% (1:12).
- SURFACE OF CURB RAMPS SHALL BE CONSTRUCTED WITH ADA COMPLIANT SURFACE TEXTURE AND CONTRASTING COLOR. RAMP SLOPE SHALL NOT EXCEED 8.33% (1:12). CURB RAMPS SHALL NOT EXCEED 6" IN LENGTH.
- ACCESSIBLE PARKING SPACE SLOPES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS. ADA COMPLIANT SIGNAGE SHALL BE PROVIDED FOR EACH ACCESSIBLE SPACE.

NOTES:

- SLOPES OF SIDEWALKS WITHIN 5' FROM THE ENTRANCE OF BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:48 (2.08%).
- ALL GRASS AND LANDSCAPING SHALL BE INSTALLED BELOW THE FINISHED FLOOR ELEVATION OF BUILDING IN ACCORDANCE WITH BUILDING CODE. IF POSITIVE DRAINAGE CANNOT BE ATTAINED WITH THE INSTALLATION OF LANDSCAPING, THE CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY.



LEGEND

TP	TOP OF PAVEMENT
TG	TOP OF GRADE
FG	FINISHED GRADE
FL	FLOW LINE
TW	TOP OF WALL
BW	BOTTOM OF WALL
SW	TOP OF SIDEWALK
FF	FINISHED FLOOR ELEVATION INSIDE GARAGE
TP=325.25	PROPOSED SPOT ELEVATION
---	PROPERTY LINE
---	FLOW LINE
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	EXISTING CONTOUR
□	PROPOSED STORM STRUCTURE
■	PROPOSED BUILDING
■	PROPOSED PAVEMENT

TOPOGRAPHIC SURVEY NOTE

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS PREPARED BY KERR SURVEYING OF BRYAN, TEXAS. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW. THE ENGINEER'S SEAL ON THESE PLANS DOES NOT APPLY TO THE PROPERTY BOUNDARY INFORMATION SHOWN HEREON.

INSPECTIONS/CERTIFICATIONS NOTE

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY LOCAL CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO SUBSTANTIAL PROJECT COMPLETION.

PERMITS NOTE

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY FEDERAL, STATE, OR LOCAL CODES AND/OR UTILITY SERVICE COMPANIES PRIOR TO START OF CONSTRUCTION.

TRAFFIC CONTROL NOTE

GUIDELINES SET FORTH IN PART "I" STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

****TEXAS ONE CALL SYSTEM****

AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT," TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM. THE CONTRACTOR MUST ALSO CONTACT THE CITY OF BRYAN PUBLIC WORKS DEPARTMENT (979-258-8600) TO LOCATE LINES OWNED BY THE CITY OF BRYAN.

BEAMON ENGINEERING
 1788 FERNWOOD 2-2198/18172
 BEECHER BLVD., BRYAN, TEXAS 77807
 PH: (979) 571-3407

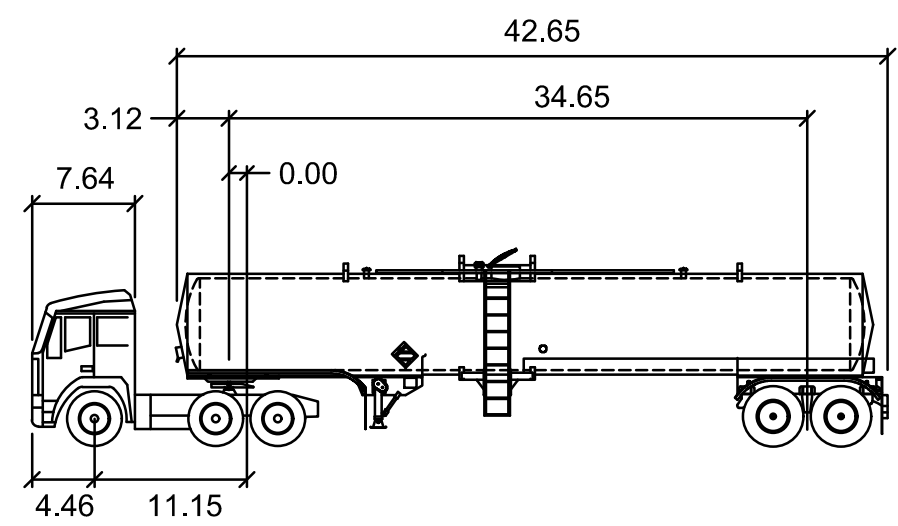


BRYAN FOOD EXCHANGE
 LOTS 16, BLOCK 5
 HANUS ADDITION
 2009 SH-21 BRYAN, TEXAS

NO.	DATE	BY	DESCRIPTION

GRADING PLAN

DATE: DEC. 16, 2024
 SCALE: 1"=20'
 SHEET NO.: C-4.0



FH 16 6x2 Tag WB 3400 - Polar Tank

Feet		
Tractor Width	: 8.01	Lock to Lock Time : 6.0 s
Tractor Track	: 8.01	Steering Angle : 14.1 deg
Tractor Track	: 8.20	Articulating Angle : 70.0 deg
Tractor Track	: 8.01	

INSPECTIONS/CERTIFICATIONS NOTE

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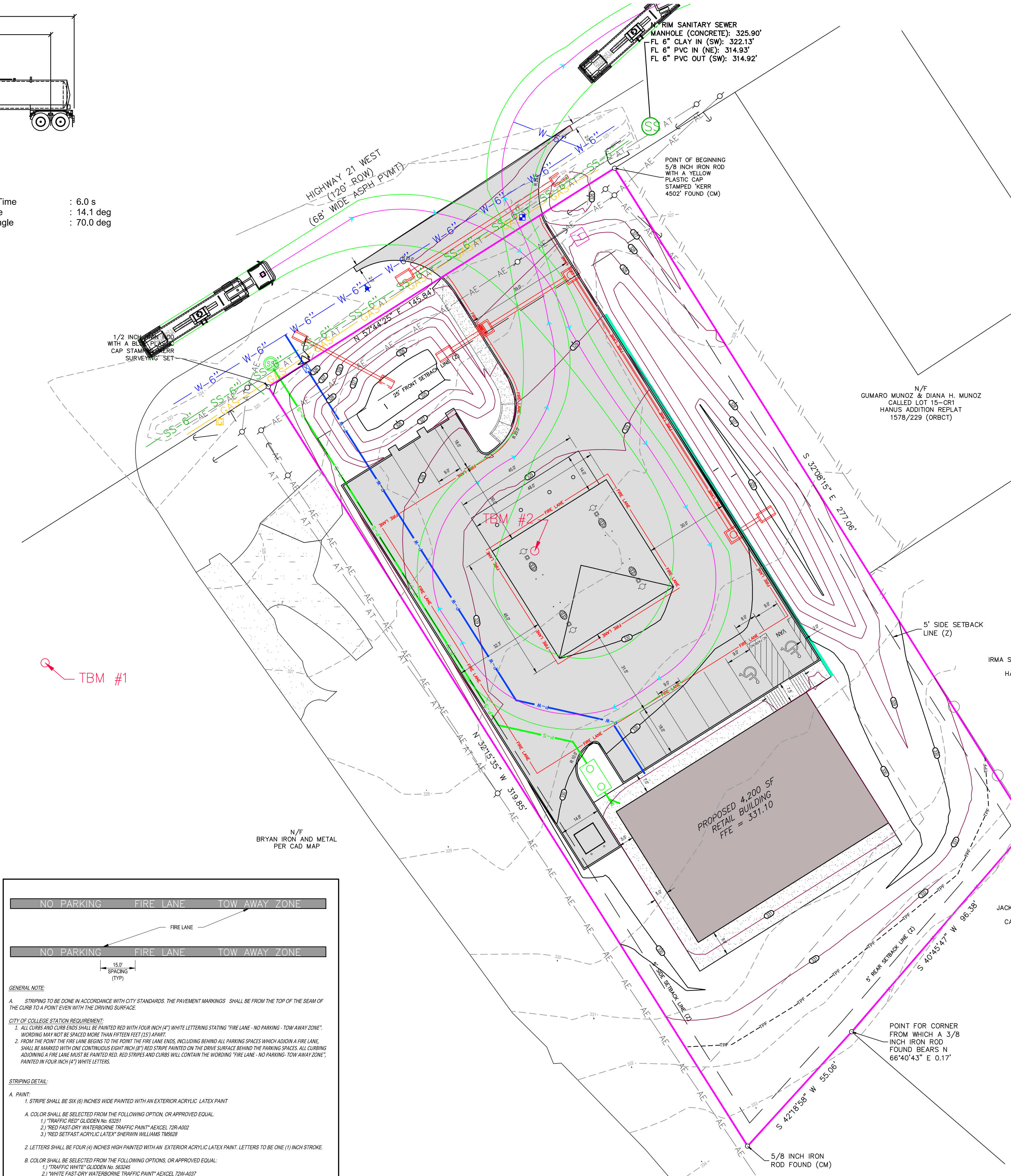
TRAFFIC CONTROL NOTE

GUIDELINES SET FORTH IN PART VI "STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS" OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

FIRE LANE STRIPING NOTE

LOCATION OF FIRE LANE STRIPING SHALL BE APPROVED BY THE LOCAL FIRE MARSHAL PRIOR TO APPLICATION. UNLESS OTHERWISE DIRECTED BY THE FIRE MARSHAL, FIRE LANE STRIPING SHALL BE 8" RED PAINTED STRIPES ALONG TOP AND FACE OF CURB, FACE OF SIDEWALK OR DIRECTLY ADJACENT TO PROPOSED PARKING LOT STRIPING, WITH 4" WHITE STENOILED LETTERS "FIRE LANE - NO PARKING" PAINTED ON RED STRIPE AT 25' CENTER TO CENTER.

ALL SIDEWALKS SHOWN ON THIS PLAN SHALL BE ADA COMPLIANT



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811

Know what's below.
Call before you dig.

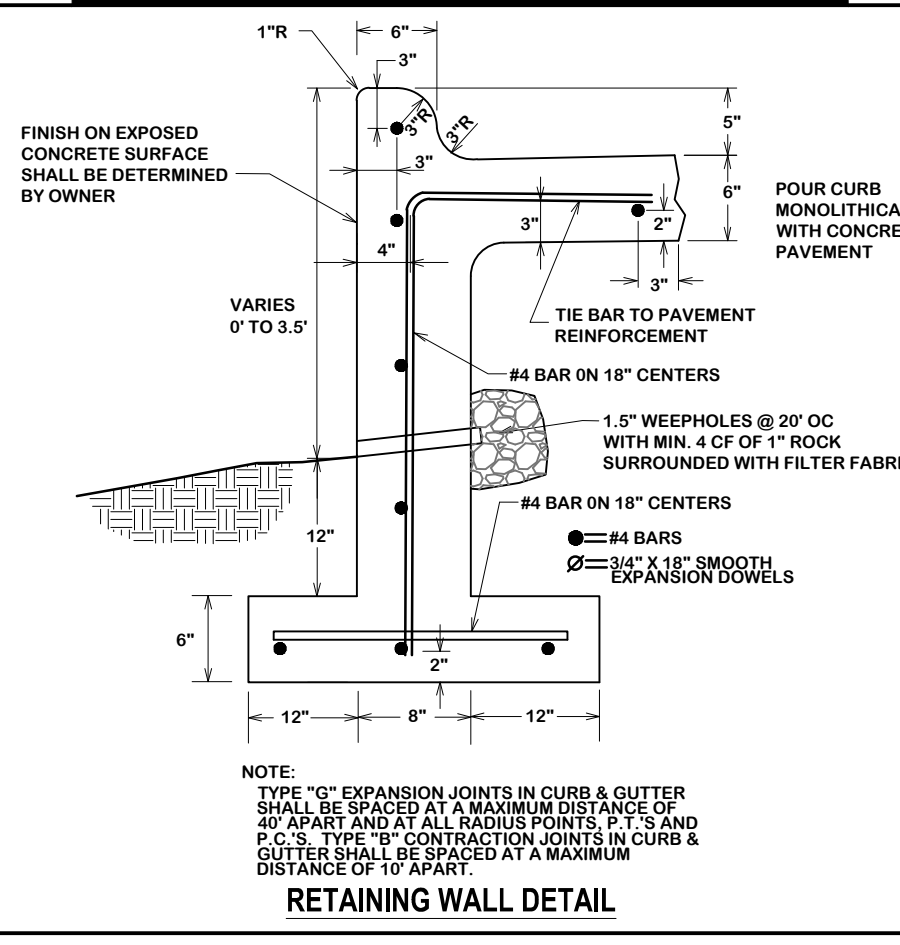
0 10 20 40 60
1" = 20'

TOPOGRAPHIC SURVEY NOTE

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****TEXAS ONE CALL SYSTEM****

AS REQUIRED BY THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-844-4445) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM. THE CONTRACTOR MUST ALSO CONTACT THE CITY OF BRYAN PUBLIC WORKS DEPARTMENT (979-209-5900) TO LOCATE LINES OWNED BY THE CITY OF BRYAN.



SITE INFORMATION

DEVELOPER: MOHAMMED YOUSIF
KURO CONSTRUCTION LLC
P.O. BOX 19807
SPRING, TX 77385
CELL: (832) 708-7676

APPLICANT: DANIEL BEAMON
BEAMON ENGINEERING LLC
16172 BENCH LANE
BRYAN, TEXAS 77807
PH: 979-571-2407

LEGAL DESCRIPTION: LOT 16, BLOCK 5, HANUS ADDITION
BRAZOS COUNTY, TEXAS

ZONED: C-2

ADDRESS: 2008 W SH-21
BRYAN, TEXAS

LAND USE: RETAIL

SETBACKS: FRONT - 25'
REAR - 5'

LAND AREA: 0.999 ACRES
HEATED SQUARE FOOTAGE: 4,200 SF

MAX. BUILDING HEIGHT: 35'-0"

END ISLAND AREA REQUIRED: 4 ISLANDS @ 180 SF = 720 SF

END ISLAND AREA PROVIDED: = 915 SF

PARKING INFORMATION

USAGE	BLDG AREA	REQUIRED PARKING RATIO	PARKING REQUIRED
RETAIL	4,200	1.0 per 200 SF	21
TOTAL PARKING REQUIRED			21

REQUIRED ACCESSIBLE PARKING:
MIN. 2% OF THE TOTAL SPACES MUST BE ACCESSIBLE = 2 REQUIRED ACCESSIBLE SPACES

1 OF EVERY 6 ACCESSIBLE SPACES, BUT NOT LESS THAN 1, SHOULD BE VAN ACCESSIBLE = 1 REQUIRED VAN ACCESSIBLE SPACES

PARKING PROVIDED

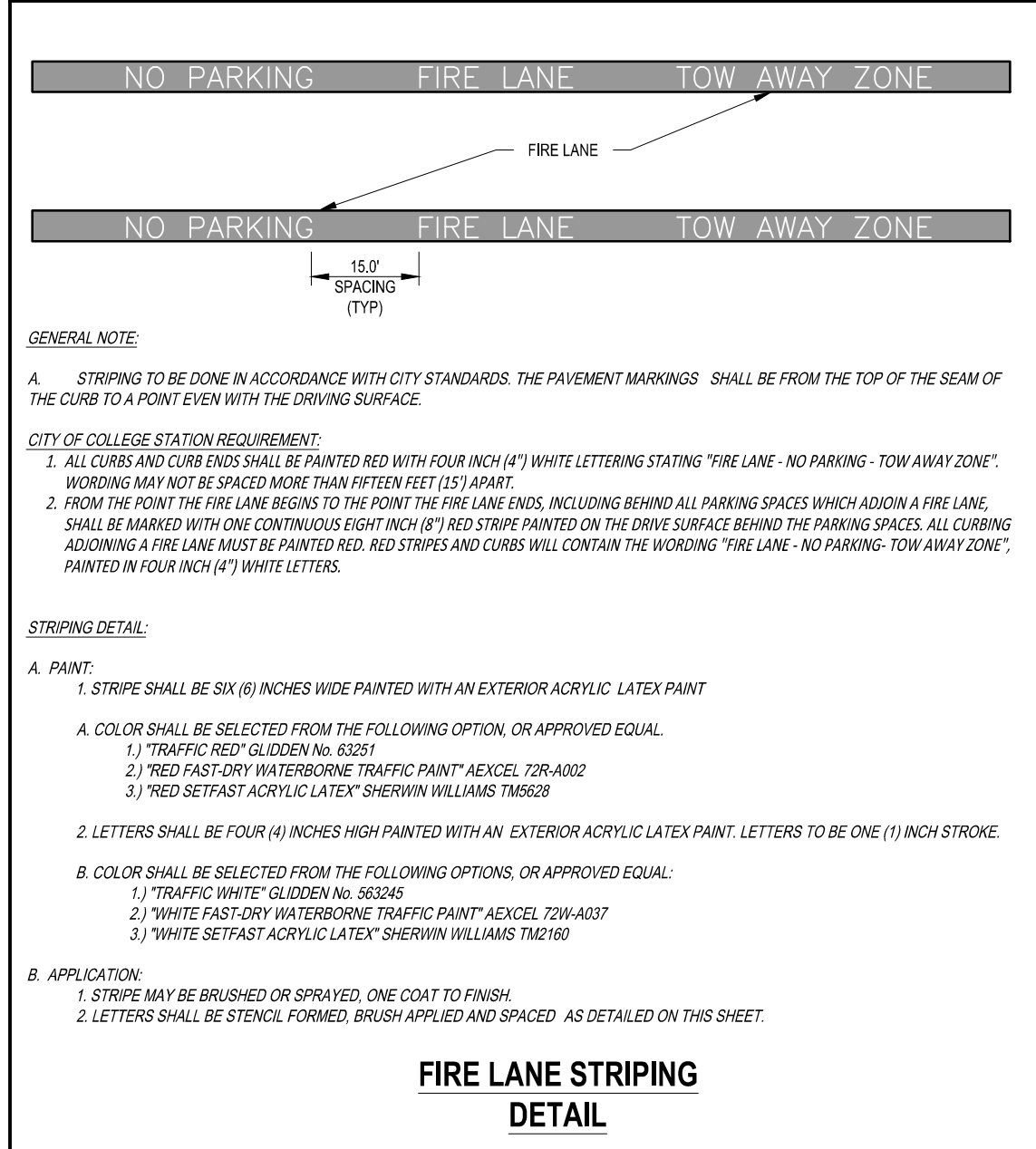
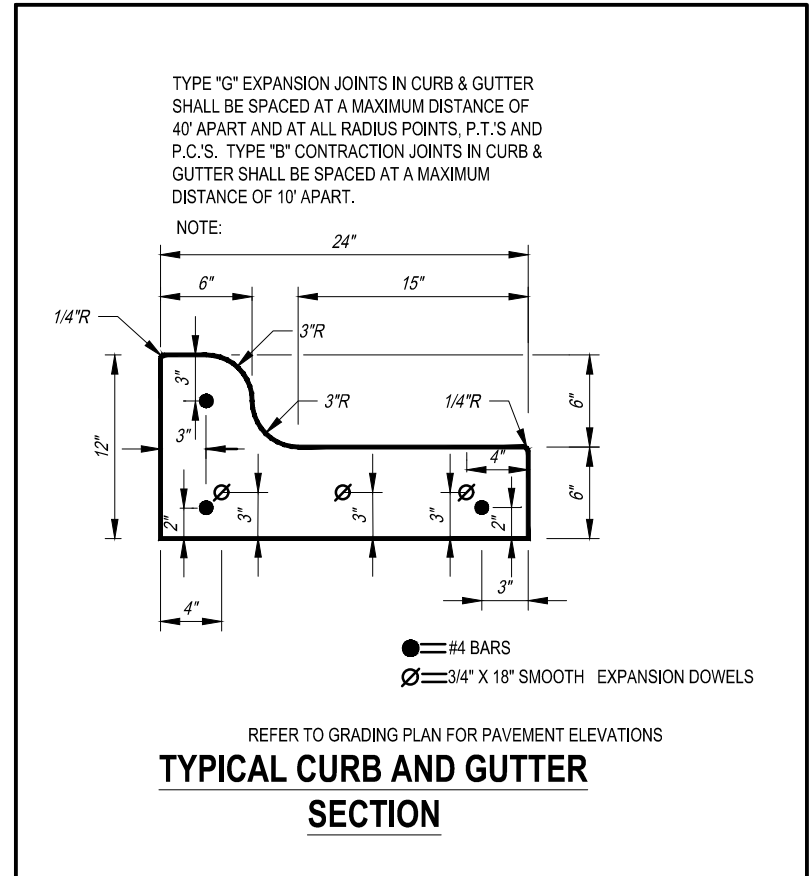
STANDARD SPACES	11
ADA ACCESSIBLE SPACES	1
ADA VAN ACCESSIBLE SPACES	1
CANOPY SPACES	8
TOTAL PARKING PROVIDED	21

SITE LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- CONC. PAVEMENT 6" THICK, 3,500 PSI WITH #4 BARS 18" OC ON 8" STABILIZED SUBGRADE
- CONCRETE SIDEWALK 4" THICK, 3,500 PSI WITH #4 BARS 18" OC ON 8" STABILIZED SUBGRADE
- CONCRETE SIDEWALK 6" THICK, 3,000 PSI WITH #4 BARS 18" OC ON 8" STABILIZED SUBGRADE
- MULTI-USE PATH PLANS
- PROPOSED MONOLITHIC CONCRETE CURB
- BUILDING SETBACK LINE
- BUILDING SPACES PER ROW
- FIRE LANE (PER COB SPECIFICATIONS) SHOWN OFFSET FROM CURB FOR CLARITY
- PROPOSED 12' WIDE PUBLIC UTILITY EASEMENT
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED STORM SEWER STRUCTURE
- PROPOSED TRANSFORMER LOCATION
- PROPOSED FIRE HYDRANT

EXISTING LEGEND

- AE - AERIAL ELECTRIC LINES
- AT - AERIAL TELECOMMUNICATION LINES
- GAS - GAS LINES
- AE - AERIAL ELECTRIC LINES
- W-6" - WATER LINE
- SS-6" - SEWER LINE
- X - BARBED WIRE FENCE
- W - WIRE MESH FENCE
- W - WOOD FENCE
- - - EXISTING EASEMENT LINE
- - - BUILDING SETBACK LINE
- WATER METER
- CLEAN OUT
- UTILITY POLE
- OUTY WIRE
- A/C UNIT
- ELECTRIC SERVICE
- WATER VALVE
- SANITARY SEWER
- GRAVEL
- CONCRETE
- ASPHALT



BEAMON ENGINEERING
TYPE FIRM NO. FZ-2086 18172
BENCH LANE, BRYAN, TEXAS 77807
PH: (979) 571-2407

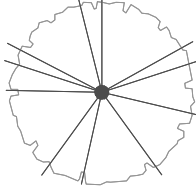
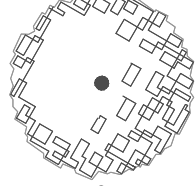
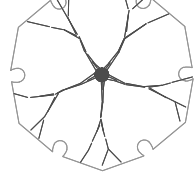



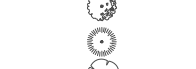

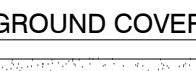

Daniel Beamon
REGISTERED PROFESSIONAL ENGINEER
NOVEMBER 15, 2024

BRYAN FOOD EXCHANGE
LOTS 16, BLOCK 5
HANUS ADDITION
2008 SH-21 BRYAN, TEXAS

TRUCK TURNING EXHIBIT

DATE: NOV. 15, 2024
SCALE: 1"=20'
SHEET NO.: C-3.1

PLANT SCHEDULE MINUS BUFFER PLANT MATERIAL

SYMBOL	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	SF VALUE	TOTAL VALUE	REMARKS
CANOPY							
	Piatanus mexicana / Mexican Sycamore	2" Cal.	Pot	2	200	400	2" caliper, Singular main leader, 7HT., 3SPR.
	Quercus virginiana / Southern Live Oak	2" Cal.	Pot	3	200	600	2" caliper, Singular main leader, 7HT., 3SPR.
	Ulmus crassifolia / Cedar Elm	2" Cal.	Pot	5	200	1,000	2" caliper, Singular main leader, 7HT., 3SPR.
NONCANOPY							
	Ilex vomitoria / Yaupon Holly	2" Cal.	Pot	5	150	750	2" caliper, Multi-truck, 5HT., 2SPR.
	Lagerstroemia indica x fauriei 'Natchez' / Natchez Crape Myrtle Multi-Trunk	2" Cal.	Pot	8	150	1,200	2" caliper, Multi-truck, 5HT., 2SPR.
SHRUBS							
	Leucophyllum frutescens 'Green Cloud' / Green Cloud Texas Sage	3 gal. Pot		27	10	270	
	Miscanthus sinensis 'Adagio' / Adagio Eulalia Grass	3 gal. Pot		22	10	220	
	Muhlenbergia capillaris 'Gulf Coast' / Gulf Coast Pink Muhly Grass	3 gal. Pot		16	10	160	
	Morella cerifera 'Nana' / Dwarf Southern Wax Myrtle	3 gal. Pot		20	10	200	
GROUND COVERS							
	Cynodon dactylon '419 Hybrid' / 419 Hybrid Bermudagrass	sod	solid sod	15,936 sf			

- SITE AREA = 0.99 ACRES
- 20% OF THE DEVELOPED AREA (23,422SF) = 4,685SF - (PER WESTERN CORRIDOR - W. STATE HIGHWAY 21 OVERLAY DISTRICT)
 - NOT LESS THAN 50% OF REQUIRED AREA SHALL BE TREES - 2,343 SF REQUIRED - 3,950 SF PROVIDED
 - NOT LESS THAN 50% OF THE TREES PLANTED SHALL BE CANOPY - 1,950 SF REQUIRED - 2,000 SF PROVIDED
 - ALL PARKING ISLANDS MUST HAVE A CANOPY TREE.

TOTAL AREA REQUIRED: 4,685SF
 LANDSCAPE AREA PROVIDED: 4,800SF
 AUTOMATIC IRRIGATION IS REQUIRED FOR THIS PROJECT

BUFFERING NOTES:

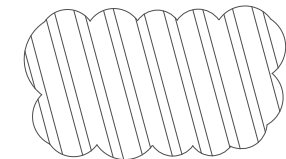
- TREES DENOTED WITH A "B" ADJACENT TO THEM DO NOT COUNT TOWARDS THE OVERALL LANDSCAPE AREA REQUIRED SINCE THEY ARE REQUIRED TO REDUCE THE WIDTH OF THE BUFFER AREA ADJACENT TO RESIDENTIAL LOTS.
- EXISTING TREES TO REMAIN INCLUDE A TOTAL OF 253.75" WITH SEVEN DIFFERENT TYPES OF SPECIES. ALL OF THESE EXISTING TREES WILL COUNT TOWARDS THE REDUCTION OF THE WIDTH OF THE BUFFER AREA ADJACENT TO RESIDENTIAL LOTS. SEE EXISTING TREE LIST ON THIS SHEET FOR DETAILS.

GENERAL LANDSCAPE NOTES

- Contractor shall be familiar with all existing conditions and underground utilities, pipes, and structures. Contractor shall take sole responsibility of any cost incurred due to bodily injury and/or damage of Owner's property or said utilities. Contractor is responsible for contacting utility companies before excavation. Contractor shall hand dig planting pits and beds and hand rake seeded areas as required. Locate and verify condition of utilities prior to any excavation. Extreme care shall be exercised in excavating and working near existing utilities.
- Any conflicting information shall be brought to the attention of the Landscape Architect and/or Owner.
- Contractor shall not proceed with construction as designed when unknown obstructions and/or grade differences exist that may have not been known during design. Such conditions shall be immediately brought to the attention of the Landscape Architect. The contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
- Contractor shall exercise caution when working around existing structures and pavements. Repair of damage to existing structures and pavements incurred as a result of the Contractor's work shall be the financial responsibility of the Contractor.
- Contractor shall be responsible for all coordination with their subcontractors to accomplish their scope of work. Contractor shall coordinate construction with other trades working on the site simultaneously.
- Contractor is responsible for locating and protecting existing irrigation and landscape on site from any damage. Contractor shall notify the Landscape Architect of any conflicts immediately.
- Contractor shall notify Owner and Landscape Architect 48 hours prior to commencement of work to coordinate project inspection schedules.
- The Contractor shall be responsible for field verification of existing conditions, and shall perform field measurements prior to fabrication and/or purchase of any materials and shall contract the Landscape Architect to shield existing conditions be different from the design drawings for this project. Conflicts arising due to lack of coordination shall be the responsibility and the expense of the Contractor.
- Any required changes to the drawing resulting from the acceptance of the Contractor's alternates and/or substitutions are the responsibility of the Contractor and shall be submitted to the Landscape Architect and the Owner for approval.
- The Contractor shall comply with all applicable ordinances and local codes. Required permits shall be obtained by the Contractor.
- Contractor shall comply with all applicable ordinances and local codes. Required permits shall be obtained by the Contractor.
- Contractor shall provide unit prices based on quantities on documents. Field conditions may revise actual location, increasing or decreasing the extent of work bid. Changes to the extent of work resulting in an increase will be based on unit prices and performed subject to the approval of the Landscape Architect and the Owner in the form of a change order. Unit prices shall not include the cost of the item but also the labor, equipment, and other materials (i.e. backfill mix, mulch, steel edging, etc.) to install them completely per the drawings.
- All construction covered by these contract documents shall be in conformance with the latest edition of all applicable city and OSHA codes and standards including, but not limited to the Uniform Building Code, enacted by the International Conference of Building Officials, most recent edition, and amendments as adopted by the local government.
- The Contractor shall provide all labor, materials, and supervision necessary to accomplish the work as shown and noted on the drawings unless otherwise specified.
- Contractors and subcontractors are responsible for removal of trash and repair of hazardous conditions (tools, open holes, etc.) on a daily basis by end of the work day. Upon completion of construction and prior to final approval, Contractor shall thoroughly clean up the project site of all trash, scrap, brick pieces, mortar, litter, etc. Repair all damage to finish grade including tailing from excavations, wheel ruts, etc., caused by construction.

EXISTING TREES TO REMAIN

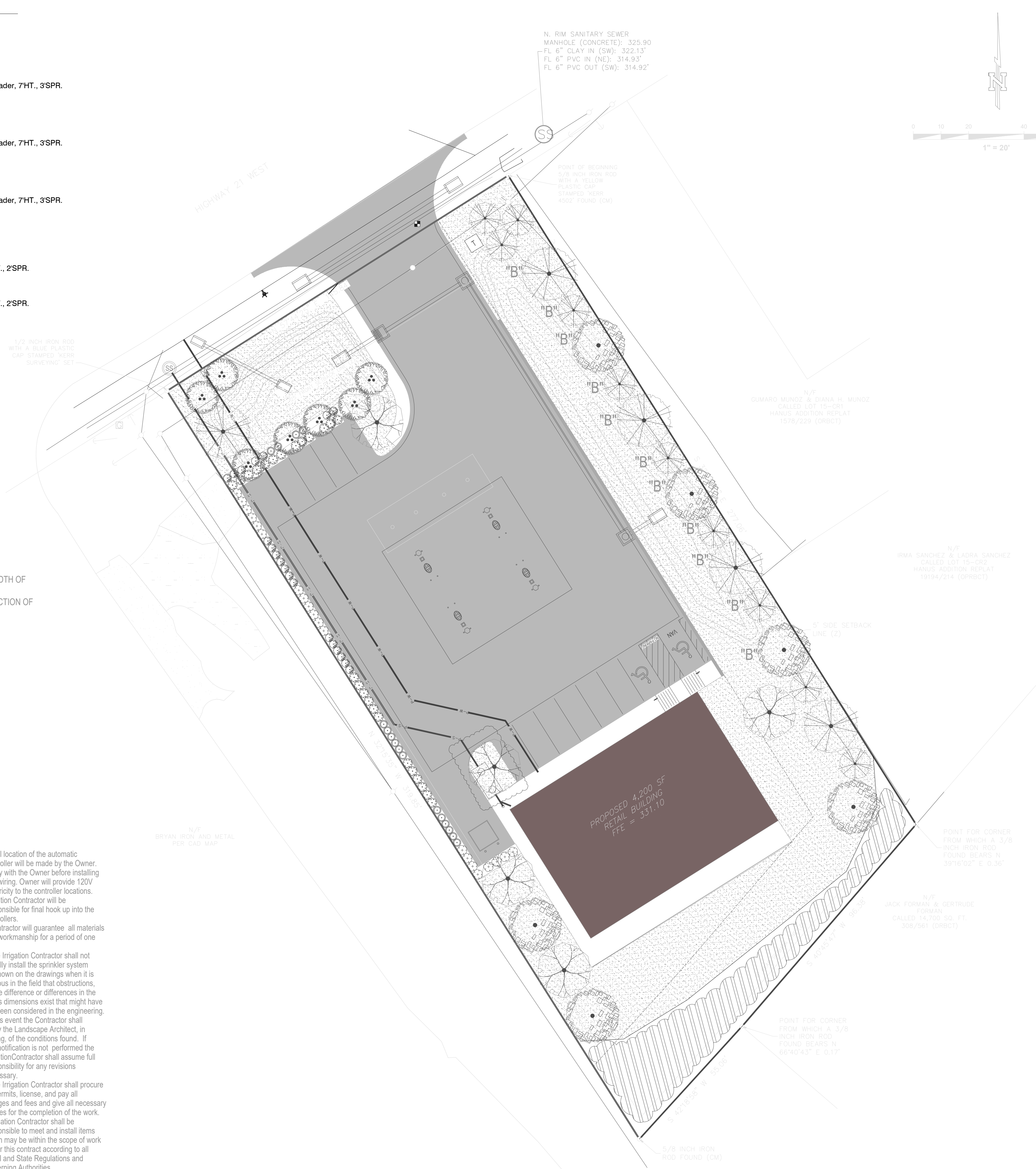
- MULTI-TRUNK CEDAR ELM - 6", 5", AND 4.5"
- MULTI-TRUNK MESQUITE TREE - 8", 8", AND 8"
- POST OAK - 7"
- DOIS D'ARC - 12"
- GUM TREE - 24"
- MULTI-TRUNK GUM TREE - 6", 6", AND 6"
- HACKBERRY TREE - 10" X 16 TREES
- SHINING SUMAC - 6" X 2 TREES



EXISTING TREES TO REMAIN AREA

IRRIGATION NOTES

- Contractor shall be a Registered Licensed Irrigator in the State of Texas.
- Contractor shall provide a complete, functioning automatic irrigation system to include all material, labor, fees, permits, equipment and other cost incidental to provide this system.
- All substitutions shall be approved in writing by the Landscape Architect prior to installation.
- It is the Contractors responsibility to locate existing underground utilities or obstacles. Contractor shall be responsible for all damages resulting from Contractor operations, at no cost to the Owner.
- Contractor is responsible for verifying site conditions and familiarizing himself with conditions which might affect the work which is being bid.
- All piping on the plan is schematic. It is the Contractors responsibility to make field adjustments at no additional cost to the Owner. All trenching will be done in a manner which protects existing root zones. Some manual digging may be necessary. The Landscape Architect will be the authority concerning trenching.
- All Main lines shall have 24" of cover and all laterals to have 12" of cover. Where rock is encountered, all piping and wiring is to be enveloped in 3" of bedding sand.
- All control wires to be 14 gauge A.W.G. direct burial 600V, single conductor solid copper, plastic insulated cable rated for direct burial installation. UF UL listed. Lead wires to be a different color for each controller as well as the common wires. No same colors will be used for either common or lead wires.
- Final location of the automatic controller will be made by the Owner. Verify with the Owner before installing any wiring. Owner will provide 120V electricity to the controller locations. Irrigation Contractor will be responsible for final hook up into the controllers.
- Contractor will guarantee all materials and workmanship for a period of one year.
- The Irrigation Contractor shall not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that obstructions, grade difference or differences in the areas dimensions exist that might have not been considered in the engineering. In this event the Contractor shall notify the Landscape Architect, in writing, of the conditions found. If this notification is not performed the Irrigation Contractor shall assume full responsibility for any revisions necessary.
- The Irrigation Contractor shall procure all permits, license, and pay all charges and fees and give all necessary notices for the completion of the work.
- Irrigation Contractor shall be responsible to meet and install items which may be within the scope of work under this contract according to all Local and State Regulations and Governing Authorities.



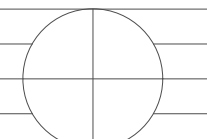
BRYAN FOOD EXCHANGE
 LOT 16, BLOCK 5
 HANUS ADDITION
 2009 SH-21BRYAN, TEXAS

LANDSCAPE PLAN

am ANDREW MORRIS
 LANDSCAPE ARCHITECTURE
 OFFICE IN: AUSTIN, TX
 TEL 512.769.0524

Professional Seal of Jacob Young, Landscape Architect, State of Texas, License No. 3107.
 Signature: Jacob Young
 Date: 12.16.24

Consultants:

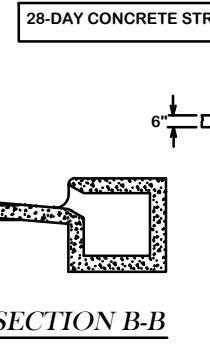
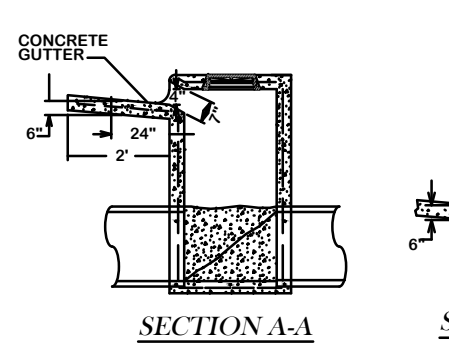
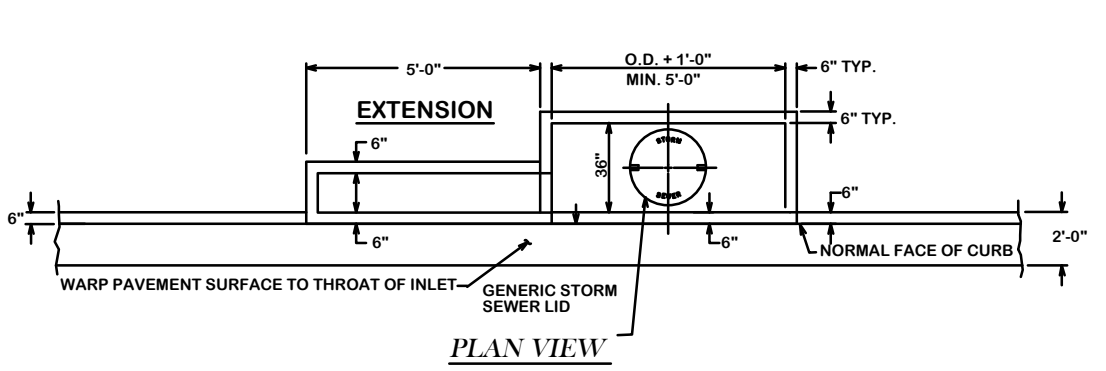
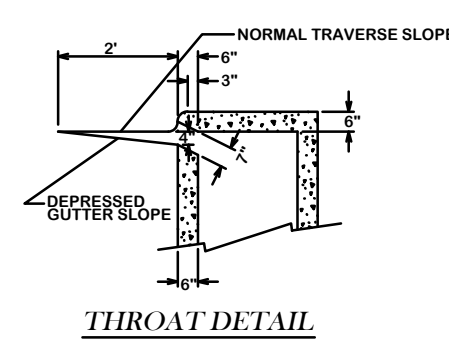
Issue Date	12.16.24
Revisions	
Project Number:	
Drawn By	JAY
Checked By	JAY
North	
Scale:	1"=20'

CITY OF BRYAN LANDSCAPE PERMIT PLANS

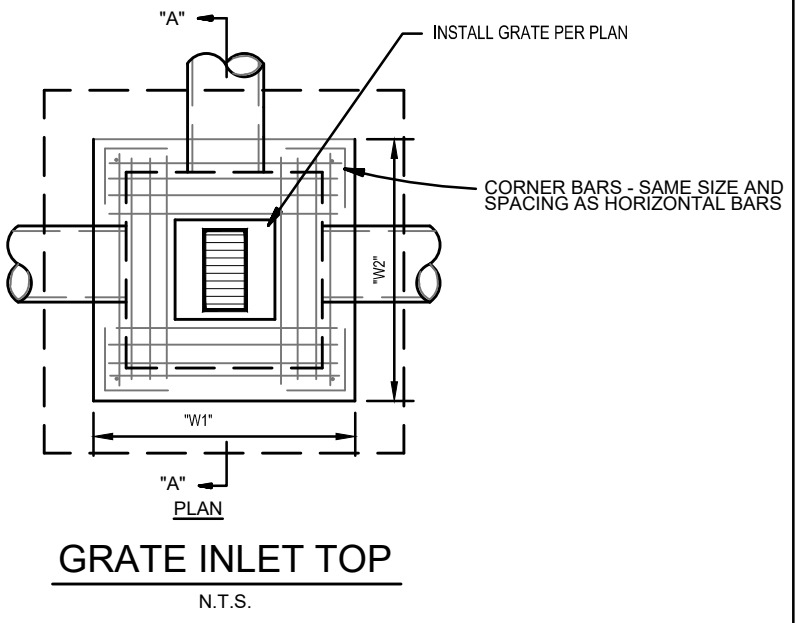
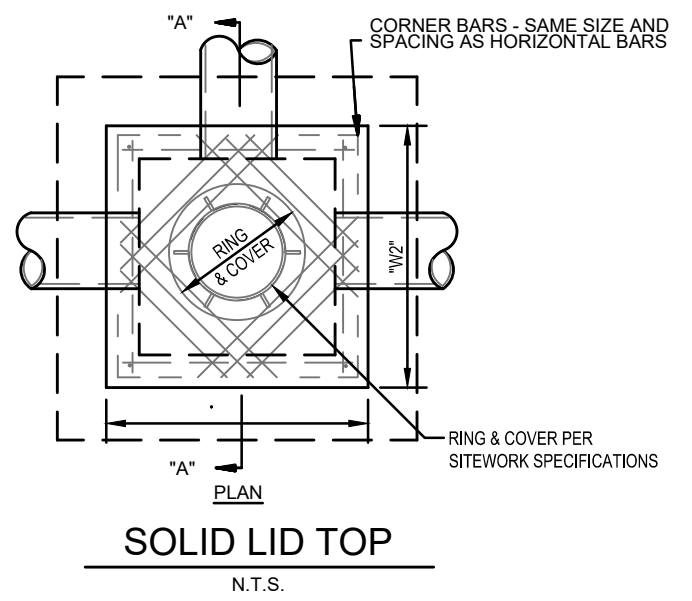
These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or extensions to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures, or for safety precautions and programs in connection with the project.

Sheet Number

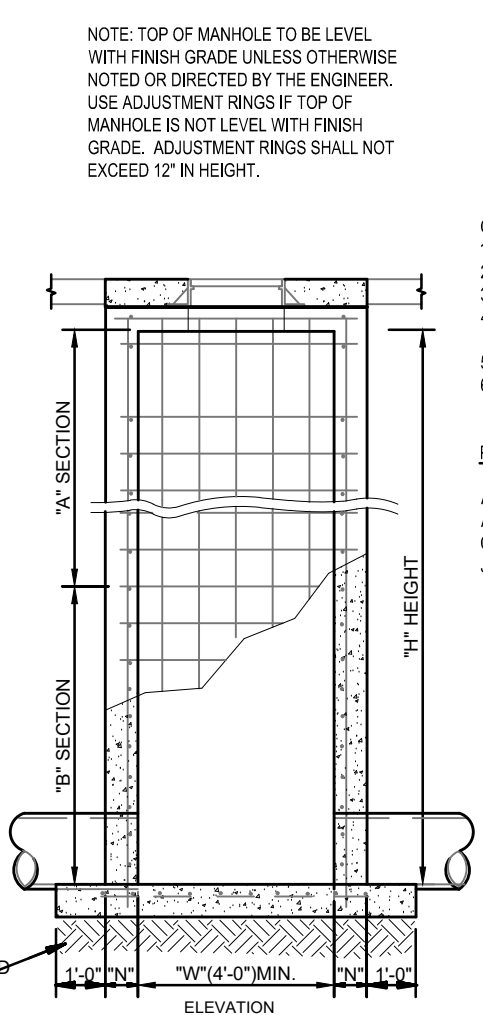
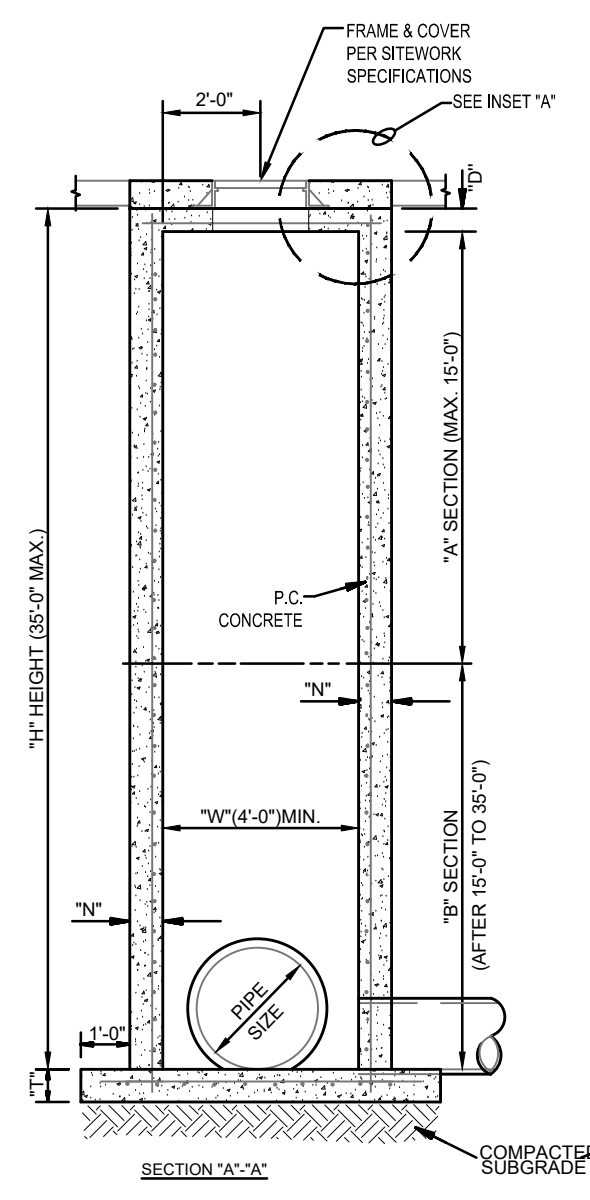
Sheet **L-1.0** of



CURB INLET TOP
N.T.S.



GRATE INLET TOP
N.T.S.



STORM SEWER JUNCTION BOX
N.T.S.

- GENERAL NOTES:**
- ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER
 - ALL REINFORCING BARS TO HAVE 2" COVER
 - SEE GRADING AND DRAINAGE PLAN FOR PIPE SIZES, LOCATIONS, AND FLOW LINES
 - PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE INLET. CONNECTION SHALL NOT BE MADE AT CORNERS OF BOX
 - ALL REINFORCING BARS TO BE GRADE 60
 - PRECAST MANHOLE MAY BE USED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER

PRECAST MANHOLE SPECIFICATIONS
ASTM C478 - PRECAST REINFORCED CONCRETE MANHOLE SECTIONS
ASTM C913 - PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES
CONCRETE: 4000 PSI (4 MIN.)
JOINT: WATER TIGHT RUBBER GASKET

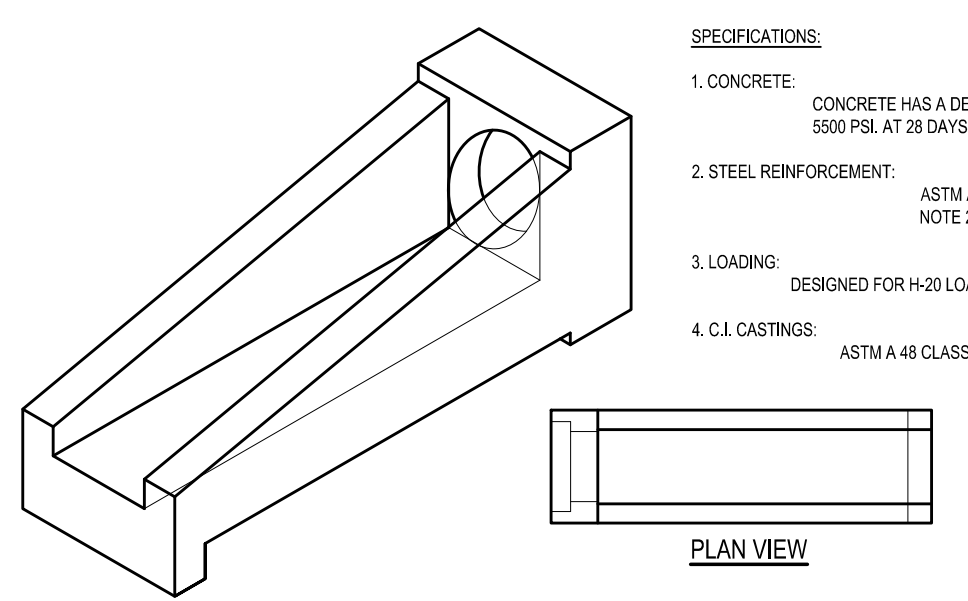
REINFORCEMENT SCHEDULE, BASE			
SECTION	WIDTH (W")	HOR.	VERT.
"A"	BETWEEN 4' & 7'	#4 @ 8" E-W	#4 @ 10" N-S
"B"	BETWEEN 7' & 10'	#4 @ 8" E-W	#4 @ 10" N-S

TABLE OF "W" DIMENSIONS			
PIPE SIZE	SKEW OF CROSS DRAIN	SINGLE STRAIGHT	
24"	4-0"	4-0"	4-10"
30"	4-0"	4-0"	4-10"
36"	4-0"	5-3"	6-5"
42"	5-3"	6-7"	7-3"
48"	5-3"	6-7"	6-0"
60"	7-0"	7-10"	9-8"

REINFORCEMENT SCHEDULE, WALLS			
SECTION	WIDTH (W")	HOR.	VERT.
"A"	BETWEEN 4' & 7'	#4 @ 8" E-W	#4 @ 10" N-S
"B"	BETWEEN 7' & 10'	#4 @ 8" E-W	#4 @ 10" N-S

TABLE OF "T" & "N" DIMENSIONS				
SECTION	WIDTH (W")	"T"	"N"	"D"
"A"	BETWEEN 4' & 7'	6" + PIPE THICKNESS	8"	6"
"B"	BETWEEN 7' & 10'	6" + PIPE THICKNESS	8"	8"

REINFORCEMENT SCHEDULE, TOP			
DIMENSIONS	STEEL	SPECIAL PATTERN	
W1 = 7' OR LESS	#4 @ 8" E-W	DIAGONAL @ COVER	
W2 = 7' OR LESS	#4 @ 8" E-W	DIAGONAL @ COVER	
W1 = 7' OR GREATER	#4 @ 8" E-W	DIAGONAL @ COVER	
W2 = 7' OR GREATER	#4 @ 8" E-W	DIAGONAL @ COVER	

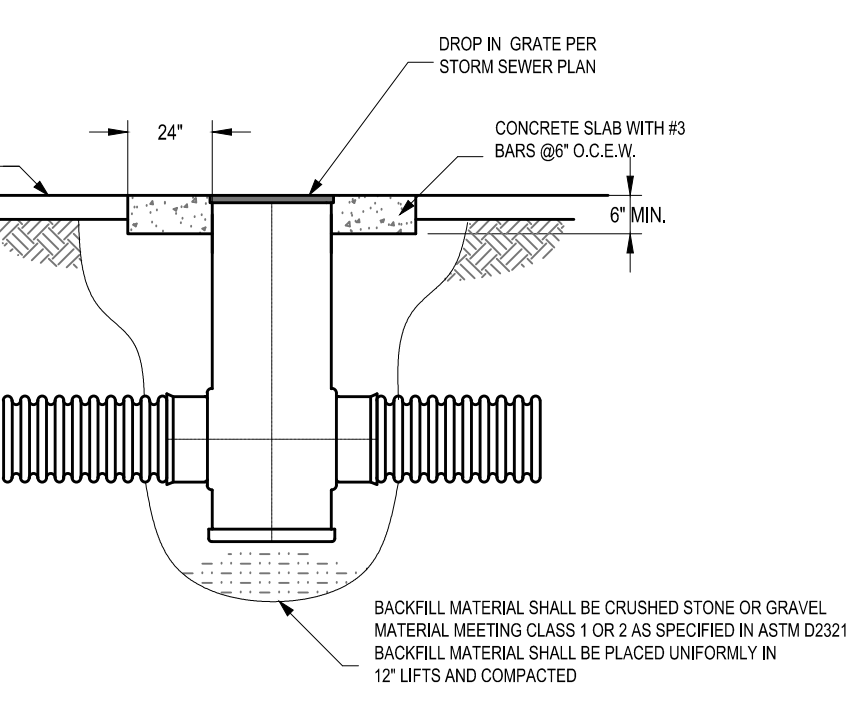
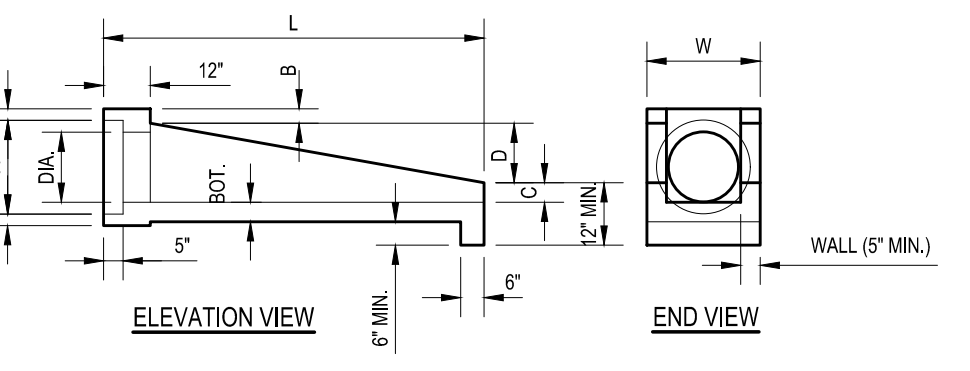


PRE-CAST SAFETY END TREATMENT
N.T.S.

- SPECIFICATIONS:**
- CONCRETE: CONCRETE HAS A DESIGN STRENGTH OF 5000 PSI AT 28 DAYS.
 - STEEL REINFORCEMENT: ASTM A-615 GRADE 60 (SEE NOTE 2)
 - LOADING: DESIGNED FOR H=20 LOADING.
 - C.I. CASTINGS: ASTM A 48 CLASS 30.05

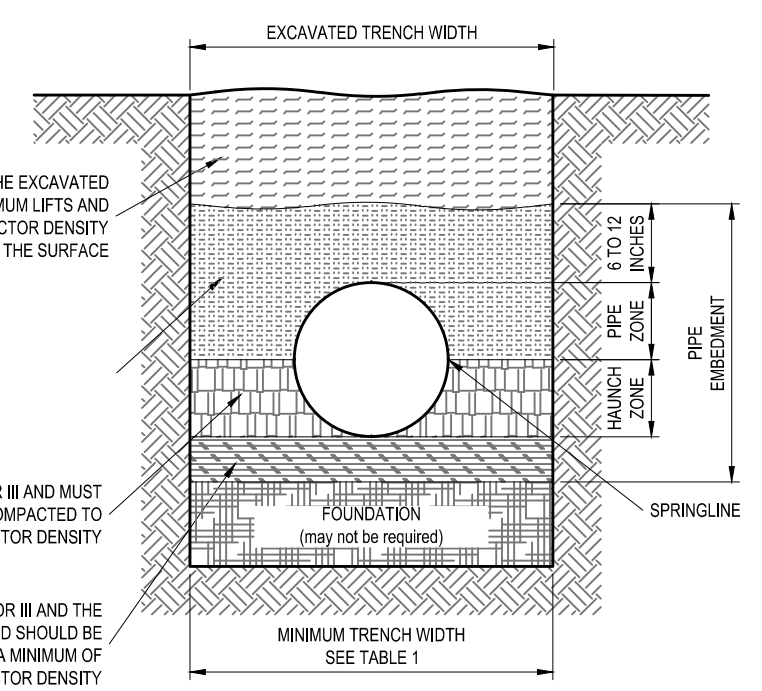
PIPE I.D.	SLOPE	WEIGHT	W	L	WALL BOT.	A	B	C	D
12"	4:1:6	1440 Lbs.	20' 28"	80' 84"	5"	5"	10' 11"	3 1/2"	6" 12' 12"
12"	4:1:6	2250 Lbs.	28' 28"	80' 84"	5"	5"	22' 0"	3 1/2"	6" 12' 12"
15"	4:1:6	1540 Lbs.	20' 28"	54' 0"	5"	5"	20' 0"	3 1/2"	6" 14' 0"
15"	4:1:6	2550 Lbs.	28' 28"	54' 0"	5"	5"	28' 0"	3 1/2"	6" 14' 0"
18"	4:1:6	2995 Lbs.	28' 28"	54' 0"	5"	5"	30' 0"	4"	6" 14' 0"
18"	4:1:6	2935 Lbs.	30' 50"	54' 0"	5"	5"	31' 4"	4"	6" 14' 0"
24"	4:1:6	5520 Lbs.	30' 50"	54' 0"	5"	5"	31' 4"	4"	6" 18' 0"
24"	4:1:6	5480 Lbs.	100"	6"	6"	38' 5"	2"	6"	
30"	4:1:6	7070 Lbs.	100"	6"	6"	43' 8"	2"	6"	
30"	4:1:6	5950 Lbs.	200"	6"	6"	43' 8"	2"	6"	
36"	4:1:6	7370 Lbs.	6"	6"	6"	43' 8"	2"	6"	
36"	4:1:6	8185 Lbs.	6"	6"	6"	43' 8"	2"	6"	

- GENERAL NOTES:**
- CLASS "C" CONCRETE
 - REINFORCEMENT #4 AT 9" O.C.E.W.
 - ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4"



TRENCH AND BEDDING DETAIL FOR HDPE STORM DRAIN PIPE
N.T.S.

- NOTES:**
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- TYPICAL NYLOPLAST DRAIN BASIN WITH SOLID COVER OR DRAIN GRATE (IN GRASS/LAWN AREA)**
N.T.S.



FINAL BACKFILL - FINAL BACKFILL MATERIALS MAY BE THE EXCAVATED MATERIAL AND SHOULD BE PLACED IN 6 INCH MAXIMUM LIFTS AND COMPACTED TO A MINIMUM 95 PERCENT STANDARD PROCTOR DENSITY TO PREVENT EXCESSIVE SETTLEMENT AT THE SURFACE

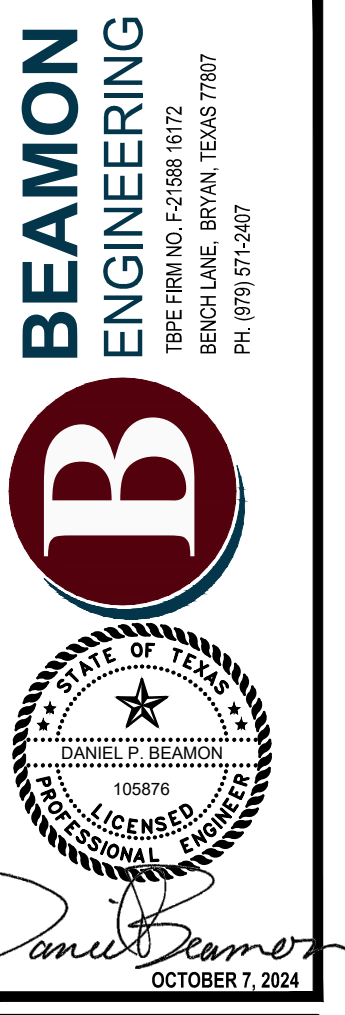
HANCHOUSING - HANCHOUSING MATERIALS MAY BE CLASS II, OR III AND MUST BE PLACED AND COMPACTED IN 8 INCH MAXIMUM LIFTS, COMPACTED TO 90 PERCENT STANDARD PROCTOR DENSITY

BEDDING - BEDDING MATERIALS MAY BE CLASS II, OR III AND THE MIDDLE OF THE BEDDING EQUAL TO 1/3 OF THE PIPE OD SHOULD BE LOOSELY PLACED AND THE REMAINDER COMPACTED TO A MINIMUM OF 90 PERCENT STANDARD PROCTOR DENSITY

- CLASS I - ANGULAR CRUSHED STONE OR ROCK, DENSE OR OPEN GRADED WITH LITTLE OR NO FINES (1/4 INCH TO 1 1/2 INCHES IN SIZE).**
- CLASS II - (GW, GP, SW, SP, GW-GC, SP-GC, SM) CLEAN, COARSE GRADED GRANULAR MATERIALS, SUCH AS GRAVEL, COARSE SANDS AND SAND/GRAVEL MIXTURES (1 1/2 INCHES MAXIMUM SIZE).**
- CLASS III - (GM, GC, SM, SC) COARSE GRAINED MATERIALS WITH FINES INCLUDING SILTY OR CLAYEY GRAVELS OR SANDS, GRAVEL OR SAND MUST COMPRISE MORE THAN 50 PERCENT OF CLASS III MATERIALS (1 1/2 INCHES MAXIMUM SIZE)**
- CLASS IV - (ML, CL, MH, CH) FINE GRAINED MATERIALS, SUCH AS FINE SAND AND SOILS CONTAINING 50 PERCENT OR MORE CLAY OR SILT, SOILS CLASSIFIED AS CLASS IVa (ML OR CL) HAVE MEDIUM TO LOW PLASTICITY AND ARE NOT RECOMMENDED IN THE EMBEDMENT ZONE. SOILS CLASSIFIED AS CLASS IVb (MH OR CH) HAVE HIGH PLASTICITY AND ARE NOT RECOMMENDED FOR EMBEDMENT MATERIALS**
- CLASS V - (OL, OH, PT) THESE MATERIALS INCLUDE ORGANIC SILTS AND CLAYS, PEAT AND OTHER ORGANIC MATERIALS. THEY ARE NOT RECOMMENDED FOR EMBEDMENT MATERIALS**
- NOTE: EMBEDMENT MATERIALS SHOULD BE PLACED AND COMPACTED AT OPTIMUM MOISTURE CONTENT.**

SUGGESTED MINIMUM TRENCH WIDTHS		
NOMINAL PIPE DIAMETER	PIPE OD	MINIMUM TRENCH WIDTH
18"	21.2"	39"
24"	27.8"	48"
30"	35.1"	66"
36"	41.7"	78"
42"	46.75"	83"
48"	52.7"	89"
60"	65.5"	102"

TABLE 1

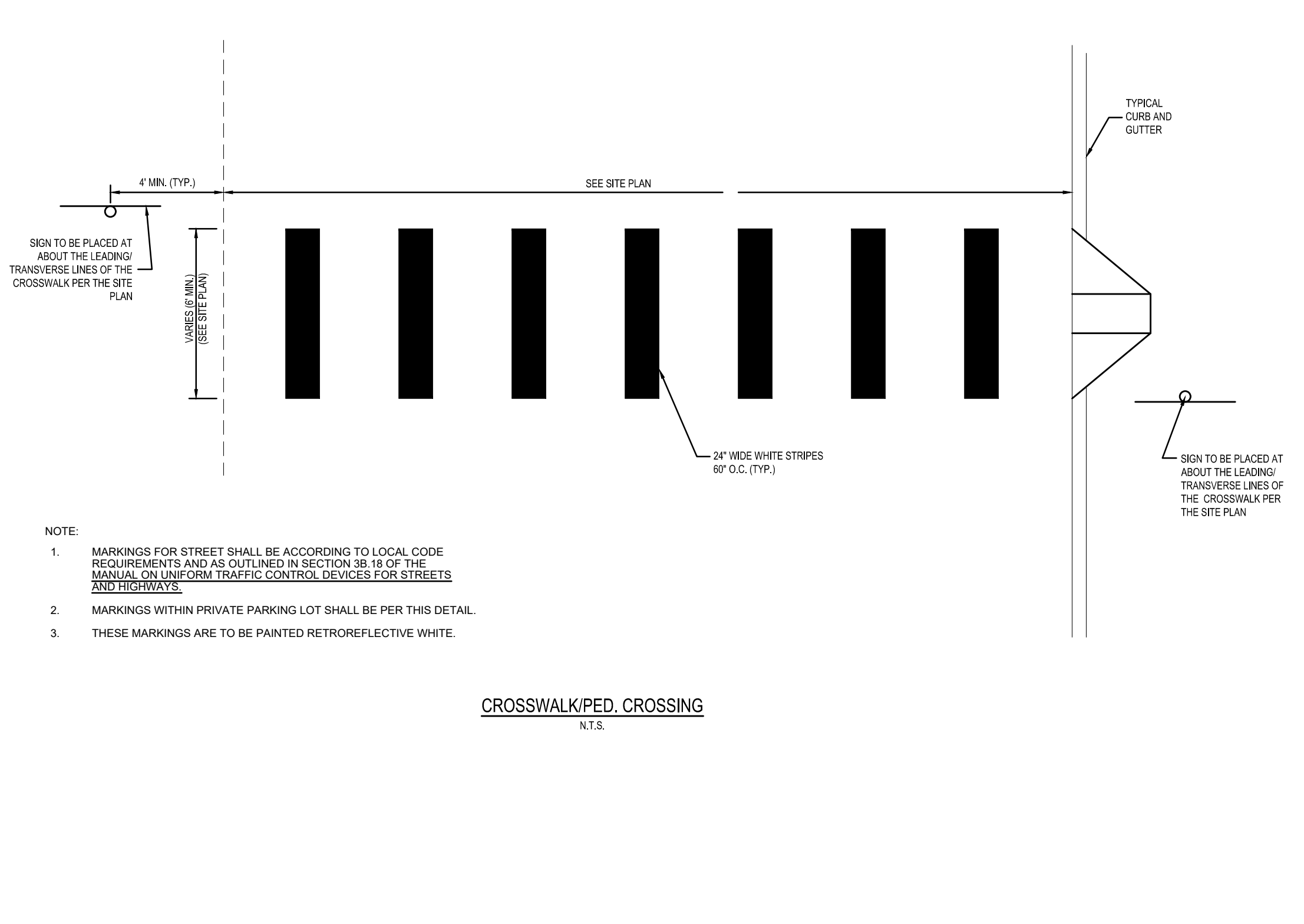


BRYAN FOOD EXCHANGE
LOTS 16, BLOCK 5
HANUS ADDITION
2009 SH-21 BRYAN, TEXAS

NO.	DATE	BY	DESCRIPTION

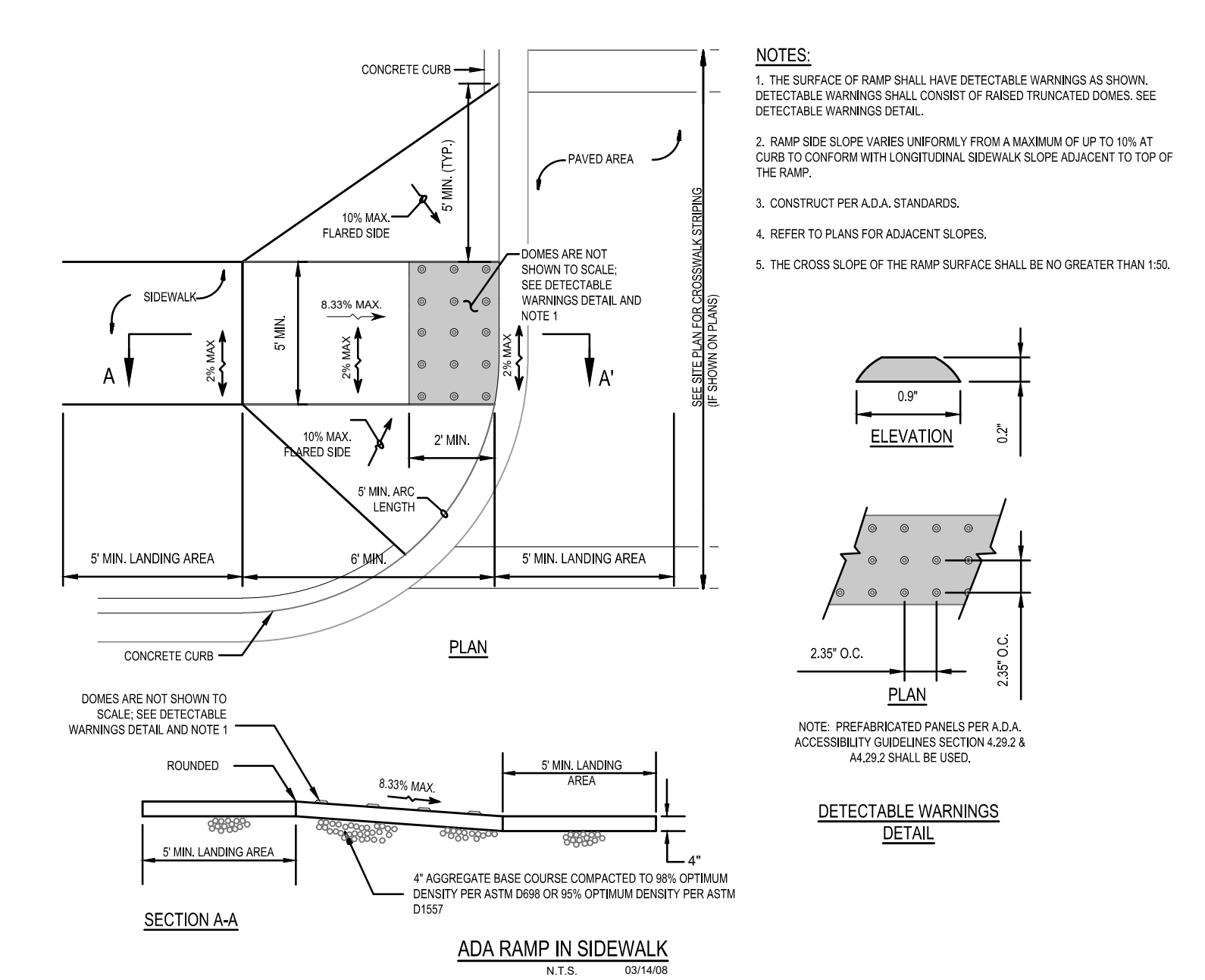
DRAINAGE DETAILS

DATE: OCTOBER 07, 2024
SCALE:
SHEET NO.: SD 3



- NOTE:
- MARKINGS FOR STREET SHALL BE ACCORDING TO LOCAL CODE REQUIREMENTS AND AS OUTLINED IN SECTION 3B.18 OF THE MANUAL ON LINE FORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
 - MARKINGS WITHIN PRIVATE PARKING LOT SHALL BE PER THIS DETAIL.
 - THESE MARKINGS ARE TO BE PAINTED RETROREFLECTIVE WHITE.

CROSSWALK/PEDESTRIAN CROSSING
N.T.S.



- NOTES:
- THE SURFACE OF RAMP SHALL HAVE DETECTABLE WARNINGS AS SHOWN. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES. SEE DETECTABLE WARNINGS DETAIL.
 - RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.
 - CONSTRUCT PER A.D.A. STANDARDS.
 - REFER TO PLANS FOR ADJACENT SLOPES.
 - THE CROSS SLOPE OF THE RAMP SURFACE SHALL BE NO GREATER THAN 1/50.

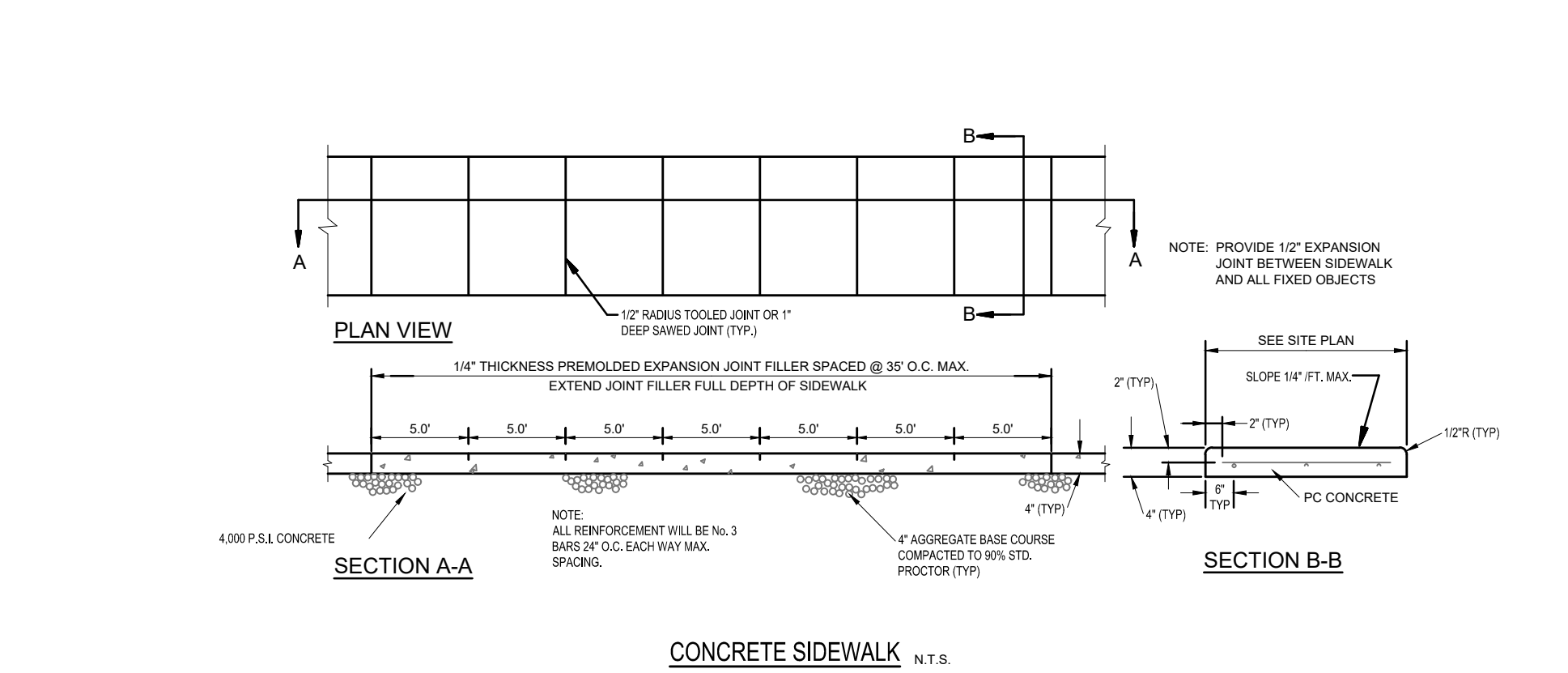
ADA RAMP IN SIDEWALK
N.T.S.

- CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
- DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
- ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
- SHADED AREAS ON DETAILS INDICATE THE APPROXIMATE LOCATION FOR THE DETECTABLE WARNING SURFACE FOR EACH CURB RAMP TYPE.
- DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 2" 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.
- 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 MAY BE CURVED ALONG THE CORNER RADII.

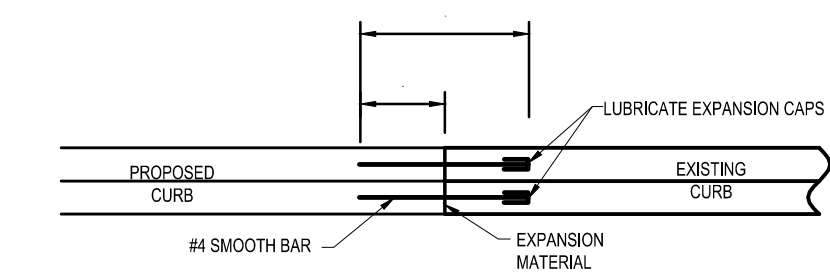
DETECTABLE WARNING DETAILS

CONCRETE GENERAL NOTES

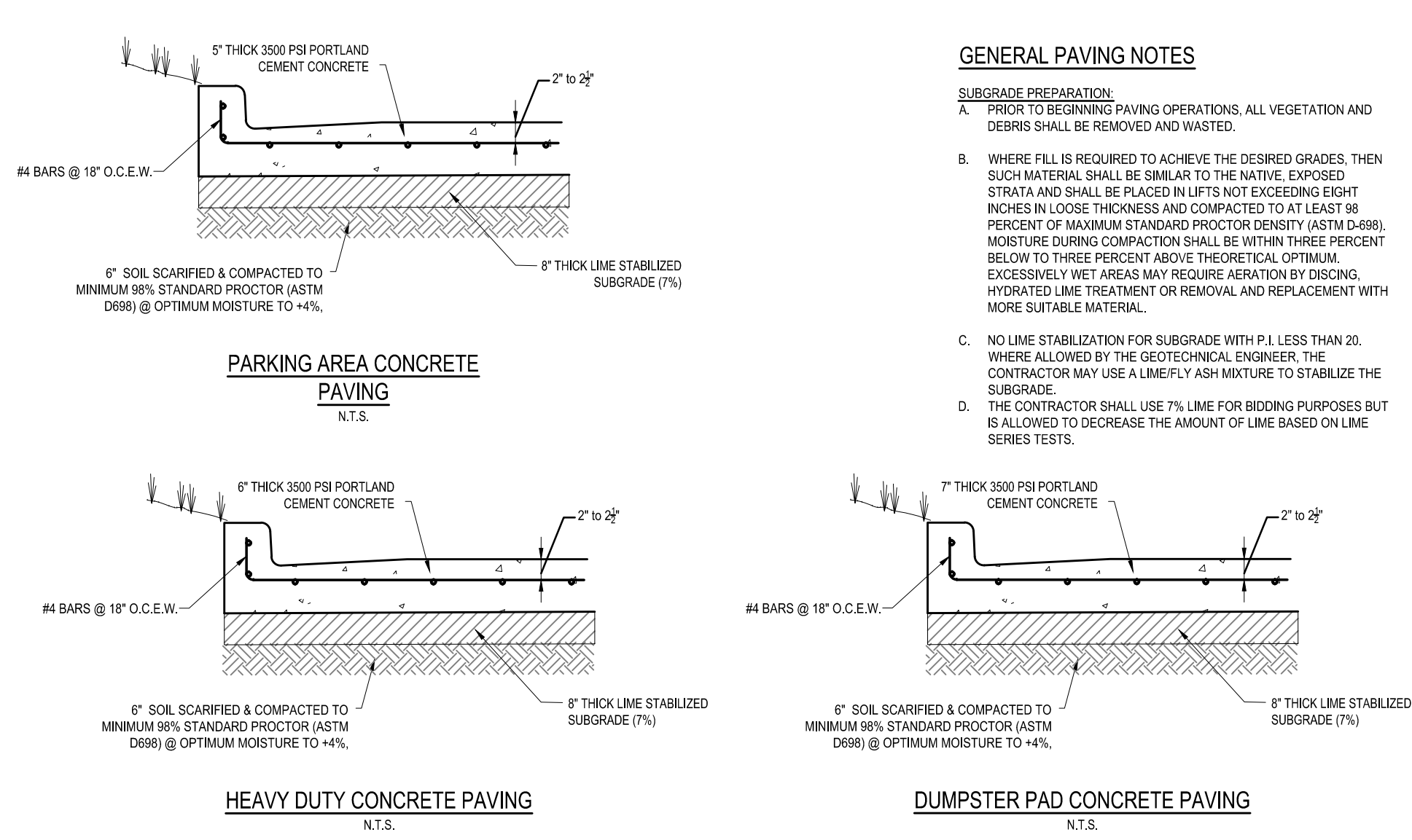
- DETAILING OF CONCRETE REINFORCING BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT' AND ACI 308 'DETAILING MANUAL'. PLACING OF REINFORCING BARS SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315R 'MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES' AND CRSI 'MANUAL OF STANDARD PRACTICE'.
- MIXING, TRANSPORTING AND PLACING CONCRETE SHALL CONFORM TO ACI 301.
- CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60.
- NO. 3 BARS MAY CONFORM TO ASTM A615, GRADE 40, UNLESS NOTED OTHERWISE. REINFORCEMENT BARS SHALL NOT BE TACK WELDED, WELDED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR REVIEWED BY THE STRUCTURAL ENGINEER.
- REINFORCEMENT DESIGNATED AS 'CONTINUOUS' SHALL LAP 30 BAR DIAMETERS AT SPICES UNLESS NOTED OTHERWISE.
- OBSERVE HOT & COLD WEATHER CONCRETE PRACTICES RECOMMENDED ON ACI 305 AND 308 RESPECTIVELY FOR EXTREME TEMPERATURES.
- FORMWORK SHALL COMPLY WITH ACI 307, 'RECOMMENDED PRACTICES FOR CONCRETE FORMWORK'.
- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318.
- ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4 INCH, 45 DEGREE CHAMFER.
- WELDED WIRE FABRIC SHALL NOT BE ACCEPTED.
- REFER TO JOB SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



CONCRETE SIDEWALK
N.T.S.

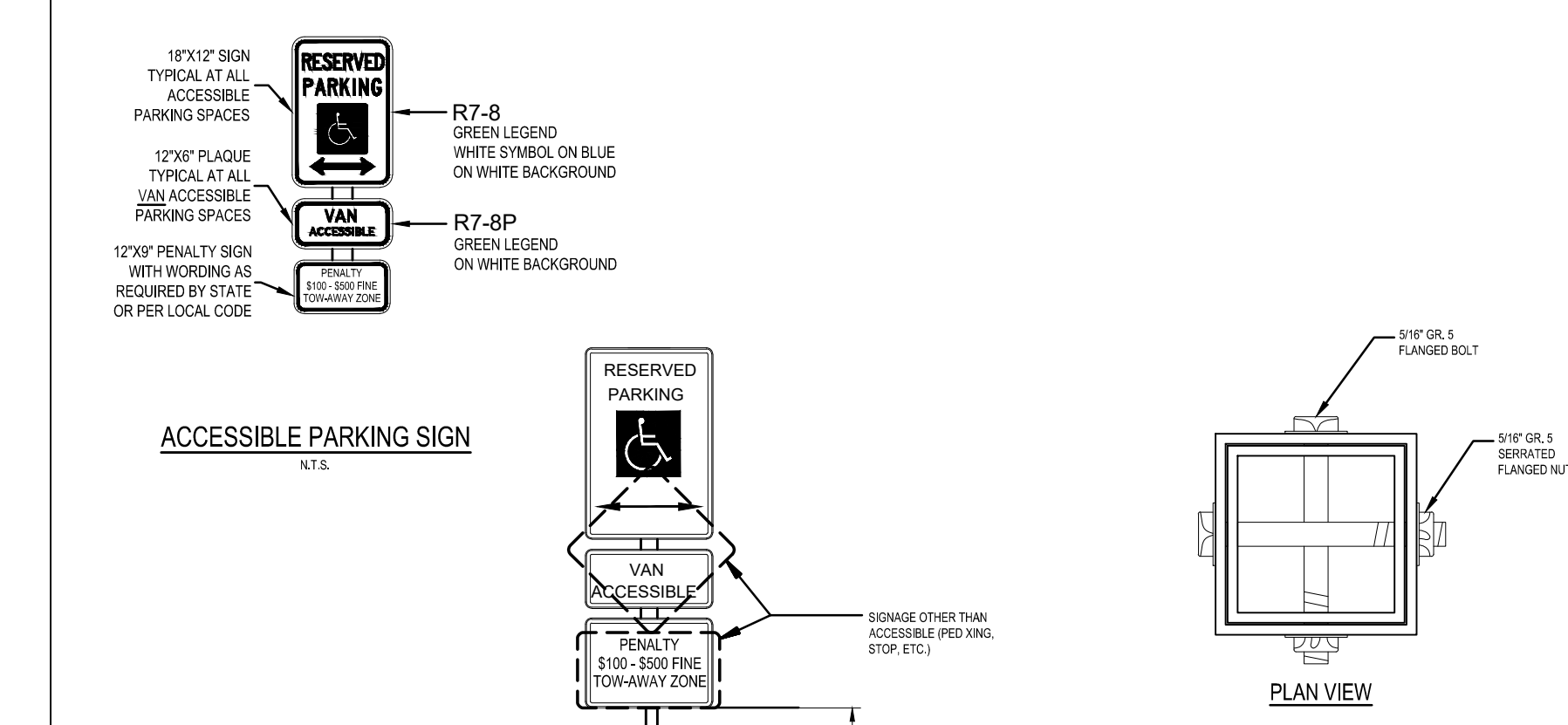


TIE-IN TO EXISTING CURB DETAIL
N.T.S.

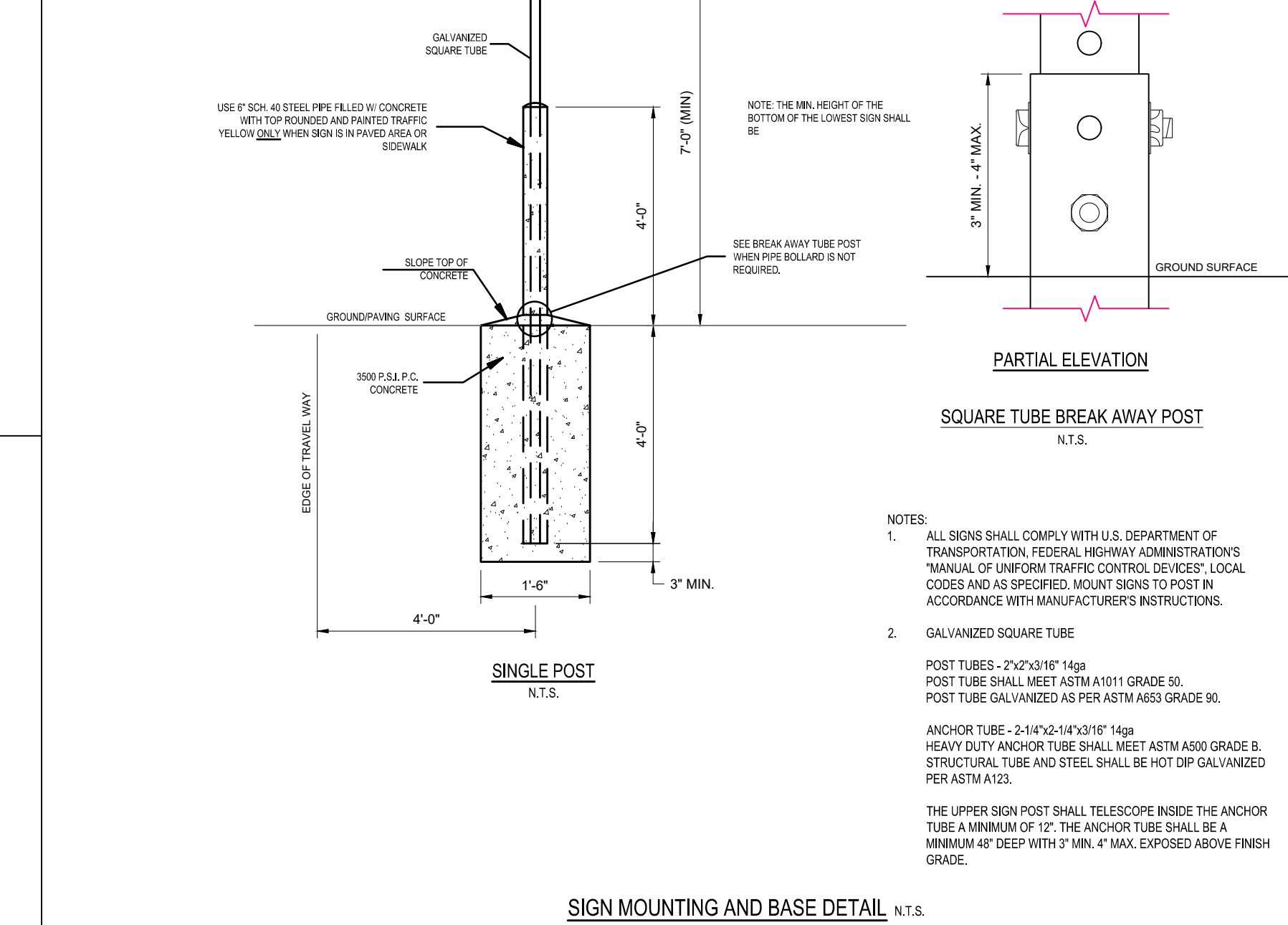


GENERAL PAVING NOTES

- SUBGRADE PREPARATION:
- PRIOR TO BEGINNING PAVING OPERATIONS, ALL VEGETATION AND DEBRIS SHALL BE REMOVED AND WASTED.
 - WHERE FILL IS REQUIRED TO ACHIEVE THE DESIRED GRADES, THEN SUCH MATERIAL SHALL BE SIMILAR TO THE NATIVE EXPOSED STRATA AND SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT INCHES IN LOOSE THICKNESS AND COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-698). MOISTURE DURING COMPACTION SHALL BE WITHIN THREE PERCENT BELOW TO THREE PERCENT ABOVE THE THEORETICAL OPTIMUM. EXCESSIVELY WET AREAS MAY REQUIRE AERATION BY DISCING, HYDRATED LIME TREATMENT OR REMOVAL AND REPLACEMENT WITH MORE SUITABLE MATERIAL.
 - NO LIME STABILIZATION FOR SUBGRADE WITH P.I. LESS THAN 20.
 - WHERE ALLOWED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR MAY USE A LIMELY ASH MIXTURE TO STABILIZE THE SUBGRADE.
 - THE CONTRACTOR SHALL USE 7% LIME FOR BIDDING PURPOSES BUT IS ALLOWED TO DECREASE THE AMOUNT OF LIME BASED ON LIME SERIES TESTS.



ACCESSIBLE PARKING SIGN
N.T.S.



SIGN MOUNTING AND BASE DETAIL
N.T.S.

- NOTES:
- ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES', LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - GALVANIZED SQUARE TUBE
 - POST TUBES - 2x2x1/8" 14ga
 - POST TUBE SHALL MEET ASTM A1011 (GRADE 50).
 - POST TUBE GALVANIZED AS PER ASTM A653 GRADE 80.
 - ANCHOR TUBE - 2x4x1/2x1/4" 14ga
 - HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B.
 - STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.
- THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 4" DEEP WITH 2" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.

BEAMON ENGINEERING
 TEXAS PROFESSIONAL ENGINEERING F-21588 16172
 BENJAMINE, BRYAN, TEXAS 77807
 PH. (979) 671-4047

Daniel P. Beamon
 OCTOBER 7, 2024

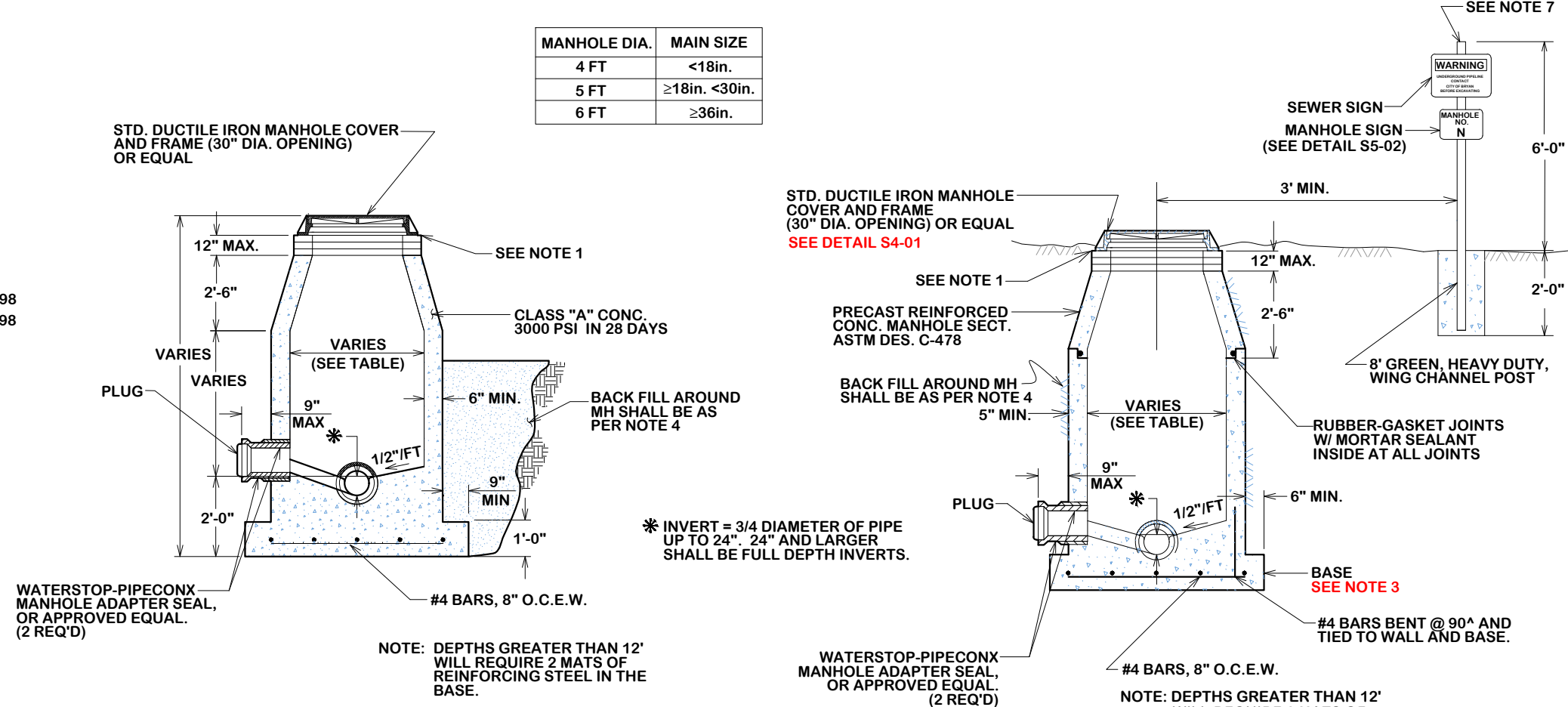
BRYAN FOOD EXCHANGE
 LOTS 16, BLOCK 5
 HANUS ADDITION
 2009 SH-21 BRYAN, TEXAS

NO.	DATE	BY	DESCRIPTION

SITE DETAILS

DATE: OCTOBER 07, 2024
 SCALE: N.T.S.
 SHEET NO: SD 1

- NOTES:
1. A MAX. OF 4 AND A MIN. OF 2 THROAT RINGS SHALL BE USED AT EACH MANHOLE IN NEW OR EXISTING RIGHT-OF-WAY.
 2. USE ADEKA SEALANT OR APPROVED EQUAL BETWEEN RING/COVER, ADJUSTMENT RINGS AND CHIMNEY OR CORBEL/COSE SECTION.
 3. MANHOLE BASE THICKNESS AND FOUNDATION FROM FLOWLINE TO RIMS AS FOLLOWS:
MANHOLE DEPTH (FT.) BASE THICKNESS
0 - 12 8"
12 AND OVER 12"
 4. MANHOLE LOCATION AND COMPACTION AS FOLLOWS:
LOCATION COMPACTION REQUIREMENT
PAVEMENT 98% STANDARD PROCTOR - ASTM D 698
LANDSCAPE AREA 90% STANDARD PROCTOR - ASTM D 698
 5. IN FLOODPLAINS OR AREAS OF CONCENTRATED FLOW, THE CONE SHALL EXTEND 1 FOOT ABOVE THE BASE FLOOD ELEVATION OR A BOLT DOWN WATER-TIGHT RING AND COVER SHALL BE USED, VENTED WHERE REQUIRED.
 6. WARNING SIGN ONLY TO BE PLACED WHERE SEWER CROSSES OPEN FIELDS.



CAST-IN PLACE MANHOLE

PRE-CAST MANHOLE

STANDARD MANHOLE

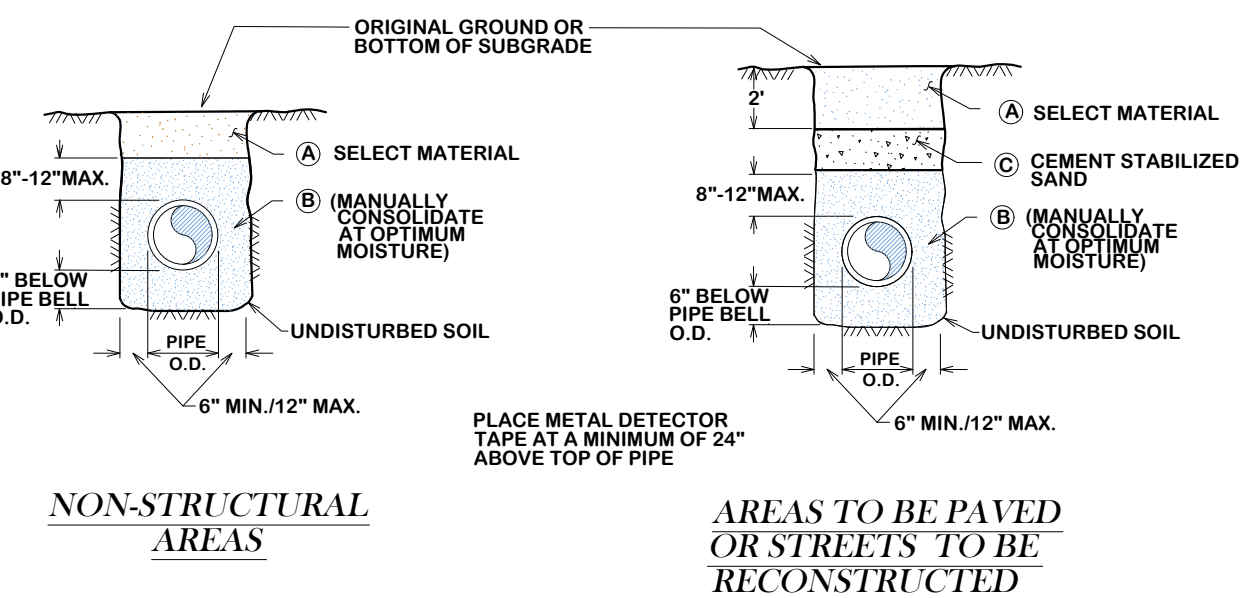
S1-00

- NOTES:
1. FOR BEDDING AND TRENCHING WITHIN ALL EXISTING PAVED AREAS, SEE DETAILS FOR OPEN CUT STREETS (Details S1-00, S1-01, S1-02). THIS NOTE DOES NOT APPLY TO STREETS BEING RECONSTRUCTED.
 2. ALL BEDDING & INSTALLATION OF PVC PIPE SHALL BE IN ACCORDANCE TO ANSII/AWWA C1500.21.50.
 3. ALL BEDDING & INSTALLATION OF DUCTILE IRON PIPE SHALL BE IN ACCORDANCE TO ANSII/AWWA C1500.21.50.
 4. COMPACTION SHALL BE ATTAINED BY MECHANICAL TAMPING.
 5. ALL TRENCHES SHALL BE BACK FILLED AND TEMPORARY PAVING OR PLANKING PLACED AT THE END OF EACH WORKING DAY.
 6. EVERY 100 FEET PROVIDE A WATER STOP BLOCK COMPOSED OF CEMENT SAND OR IMPERVIOUS NATIVE MATERIAL DEPENDING ON EMBEDMENT. BLOCK SHALL BE 6 FEET LENGTH. NO BEDDING SAND IN THIS AREA.

- A. SELECT NATIVE MATERIAL MATERIAL EXCAVATED FROM THE DITCH (WHICH IS FREE OF ROCKS, LUMPS, CLODS, OR DEBRIS LARGER THAN TWO (2) INCHES IN THE LARGEST DIMENSION), COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO +4% OF OPTIMUM UNDER NON-STRUCTURAL AREAS (i.e., YARDS, PASTURES, EASEMENTS) (OPTION 1).

B. (MANUALLY CONSOLIDATE AT OPTIMUM MOISTURE) AND TO A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D698 (STANDARD) AT A MOISTURE CONTENT WITHIN OPTIMUM TO +4% OF OPTIMUM UNDER NEW STREET AREAS AND STREETS TO BE RECONSTRUCTED. (OPTION 2).

C. CEMENT STABILIZED SAND

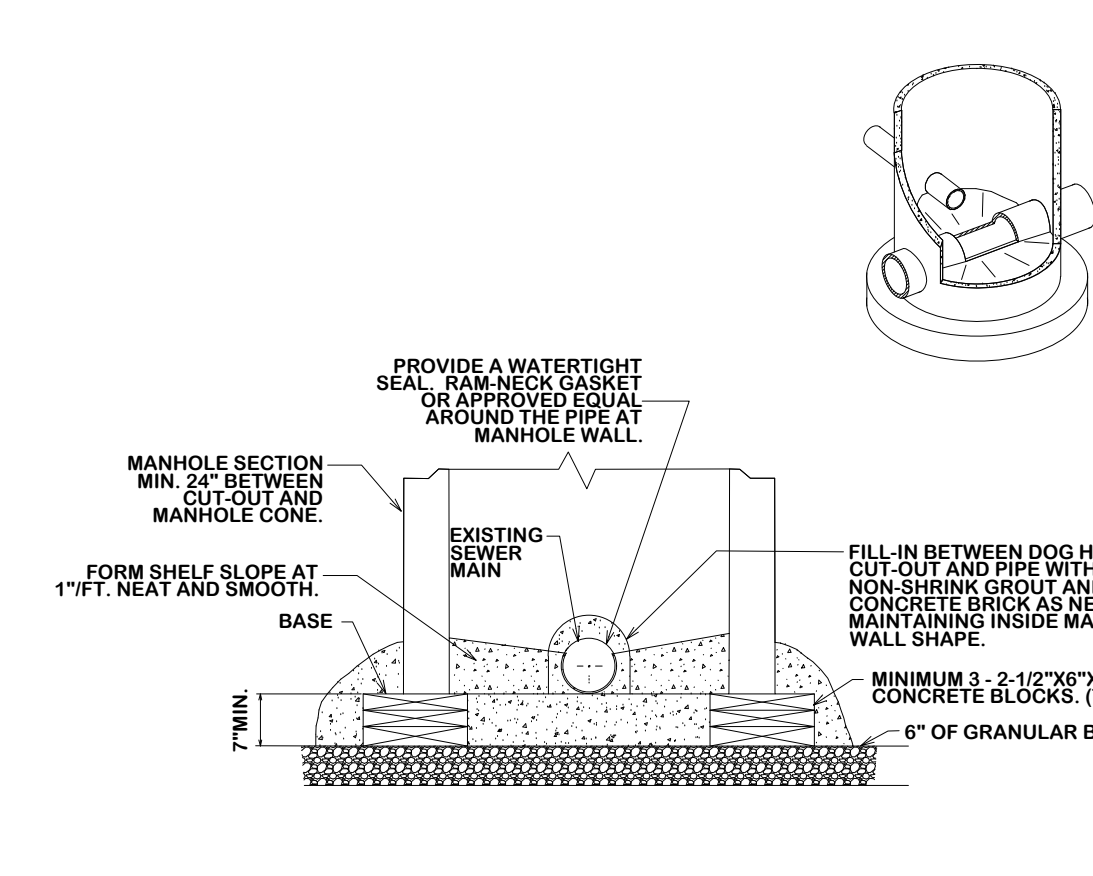


BEDDING AND TRENCH FOR DI PIPE & PVC PIPE

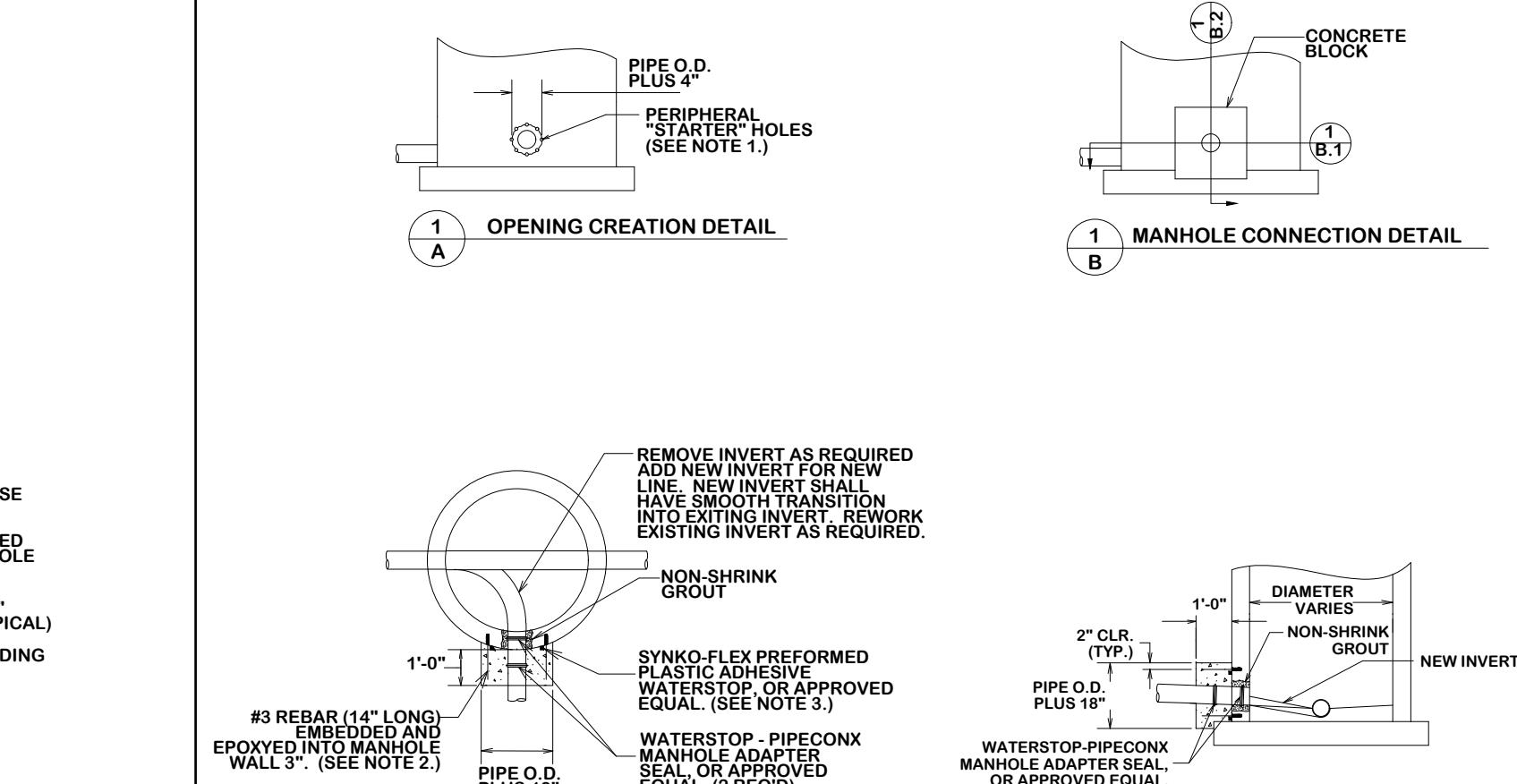
S1-01

- NOTES:
1. FLOW SHALL BE MAINTAINED DURING CONSTRUCTION.
 2. THIS DETAIL TO BE USED WHEN A 6" OR LARGER LATERAL NECESSITATES CONSTRUCTION OF A NEW MANHOLE.
 3. FOR ADDITIONAL STANDARDS NOT SHOWN, SEE "STANDARD MANHOLE" DETAIL S1-02.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT OF EXISTING SEWER DURING INSTALLATION OF MANHOLE.
 5. DOORHOUSE OPENING MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING LINE; OTHERWISE, THE OPENING MUST BE CAST, SIZE, LOCATION, AND ANGLE OF ENTRY SHALL BE AS REQUIRED BY THE PLANS.
 6. EXCAVATE TRENCH TO MIN. 12" BELOW BOTTOM OF EXISTING PIPE. COMPACT SUBGRADE. PLACE AND COMPACT 6" OF GRANULAR BEDDING. MONOLITHIC POUR OF MIN. 7" DEPTH 6 SACK TOPPING MIX TO BE PLACED INSIDE, UNDER, AND OUTSIDE MANHOLE BARREL FROM SURFACE OF BEDDING, AROUND CONCRETE BLOCK RISERS, TO A POINT APPROXIMATELY AT THE SPRING LINE OF THE EXIST. PIPE.
 7. DURING THE SAME POUR, THE FINISH MANHOLE SHELF SHALL BE FORMED AND FINISHED AROUND THE BARREL AND EXISTING PIPE AS SHOWN.
 8. AFTER CONCRETE SHELF HAS CURED, THE EXISTING PIPE SHALL BE SAW CUT ON BOTH SIDES TO THE FINISHED SHELF GRADE AND REMOVED. ONLY AFTER CITY APPROVED, PASSING MANHOLE LEAKAGE TESTING, THE EXISTING PIPE SHALL FORM THE TROUGH OF THE MANHOLE AS SHOWN. FILE CUT PIPE TO GIVE SMOOTH EDGES.

- NOTES:
1. 1" DIA. "STARTER" HOLES SHALL BE DRILLED THROUGH WALL OF EXISTING MANHOLE SPACED 3" APART CENTER TO CENTER. AFTER "STARTER" HOLES HAVE BEEN INSTALLED AND APPROVED BY A CITY INSPECTOR, THE CONTRACTOR SHALL BEGIN REMOVING THE CONCRETE INSIDE THE PERIPHERAL "STARTER" HOLES. CONCRETE SHALL BE REMOVED WITH PNEUMATIC HAND TOOLS.
 2. THE NUMBER OF REBAR DOWELS SHALL VARY WITH SIZE OF OPENING. REBAR SHALL NOT BE SPACED MORE THAN 12" CC.
 3. WATERSTOP SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
 4. CONCRETE SHALL BE 3,000 P.S.I.



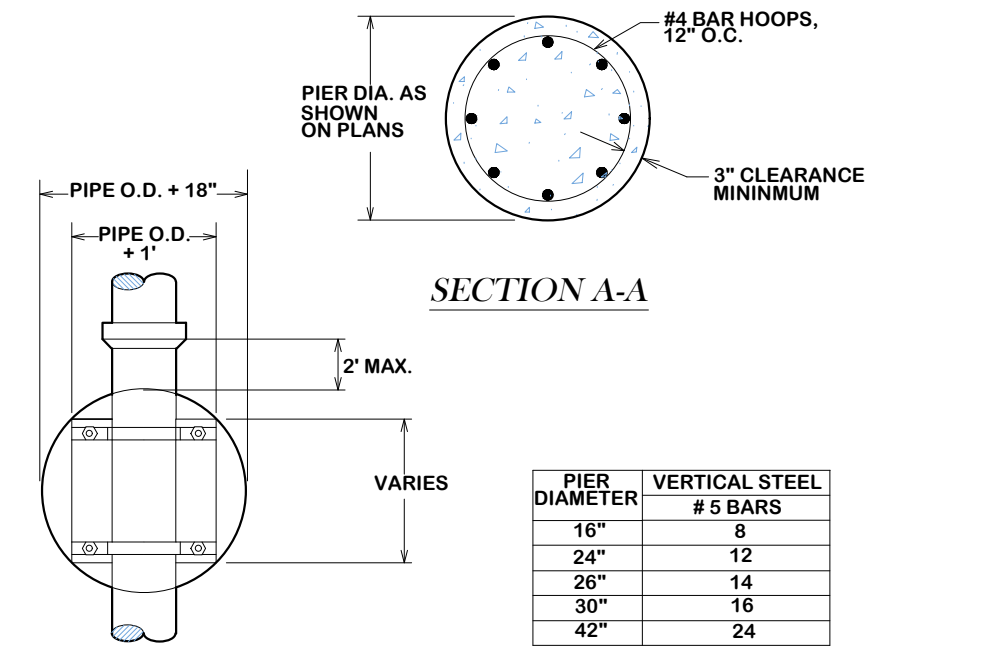
CITY OF COLLEGE STATION GRAVITY SEWER DOGHOUSE MANHOLE



STANDARD MANHOLE TIE-IN

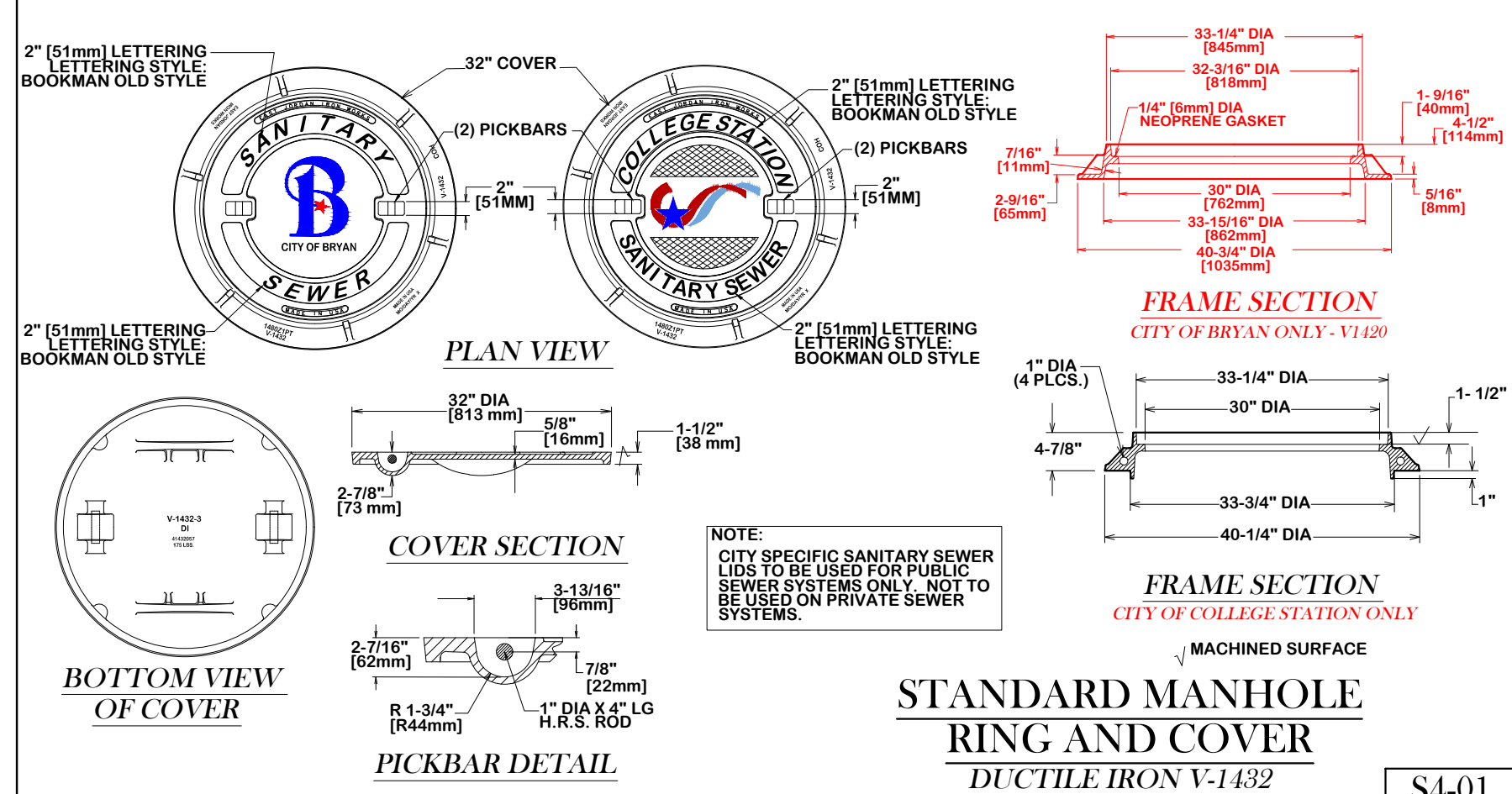
S3-01

- NOTES:
1. EACH PIER SHALL BE COMPLETED IN A SINGLE CONTINUOUS POUR.
 2. CHAMFER EDGES 3/4".
 3. CONTRACTOR SHALL CONSTRUCT CONCRETE PIER TO A MINIMUM DEPTH OF 8" OR TO A DEPTH WHERE A GOOD BEARING SOIL IS ENCOUNTERED.
 4. ALL SHAFTS SHALL BE BORED VERTICALLY PLUMB WITHIN 2" TOLERANCE.
 5. ALL INFORMATION SHOWN IS CITY MINIMUM. ALL PIERS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
 6. NUMBER OF STRAPS DEPENDENT ON SIZE OF PIERS. MIN. 1 STRAP PER PIER.



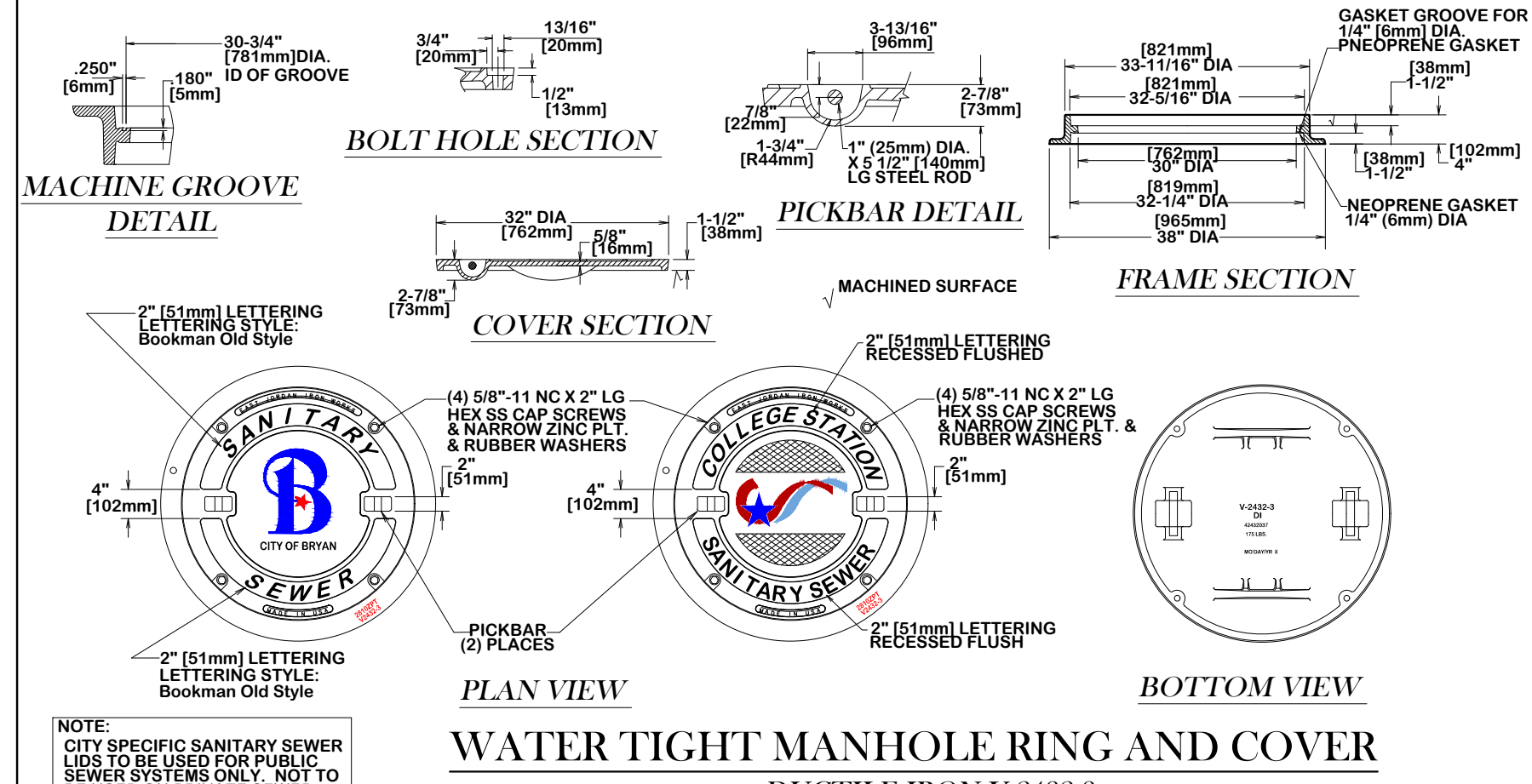
TYPICAL CONCRETE DRILLED PIER FOR AERIAL SEWER

S4-00



STANDARD MANHOLE RING AND COVER

S4-01



WATER TIGHT MANHOLE RING AND COVER

S4-02

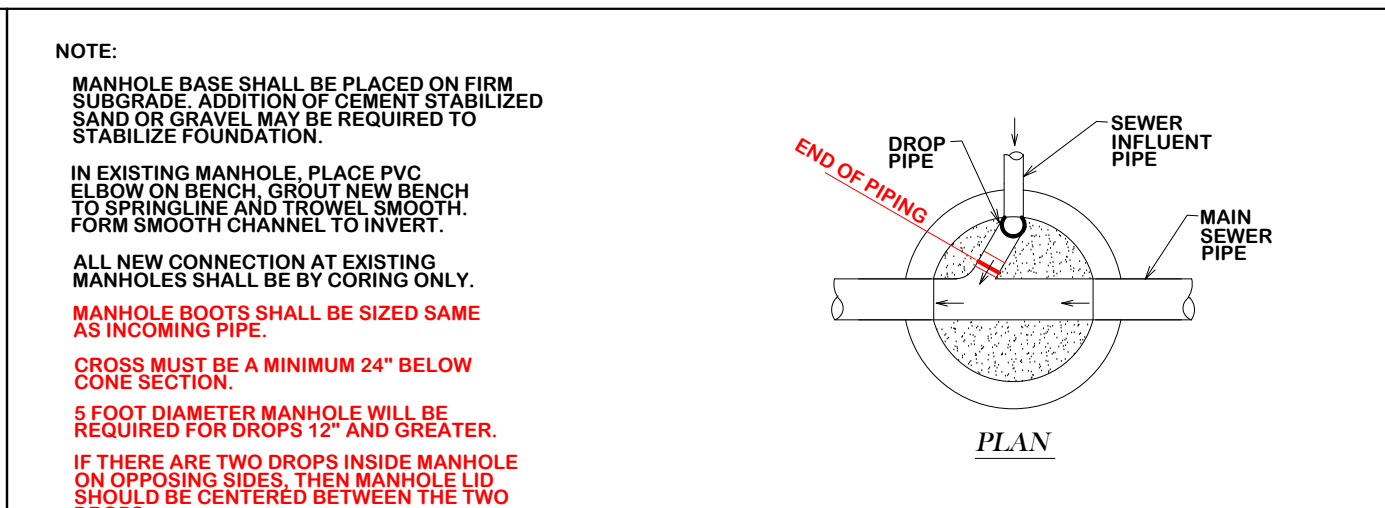
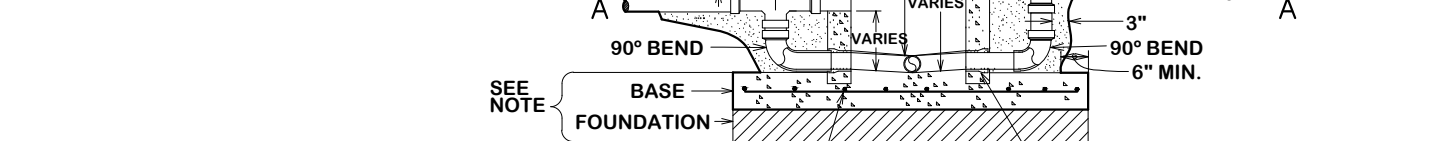
CITY OF COLLEGE STATION OUTSIDE DROP MANHOLE

S2-00



CITY OF BRYAN OUTSIDE DROP MANHOLE

S2-01



STANDARD DROP MANHOLE

S2-02

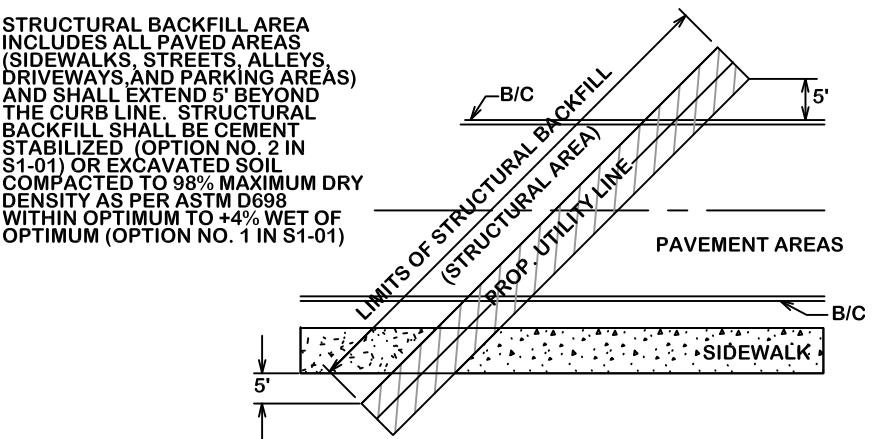
GENERAL NOTES:

ALL AREAS WHERE EXISTING VEGETATION AND GRASS COVER HAVE BEEN BARED BY CONSTRUCTION SHALL BE ADEQUATELY BLOCK SOGGED OR HYDROMULCHED AND WATERED UNTIL GROWTH IS ESTABLISHED. IN DEVELOPED AREAS WHERE GRASS IS PRESENT, BLOCK SOG WILL BE REQUIRED. BARED AREAS SHALL BE SEEDED OR SOGGED WITHIN 14 CALENDAR DAYS OF LAST DISTURBANCE.

APPROVED EROSION CONTROL MEASURES MUST BE INSTALLED DURING THE ENTIRE TIME THAT EARTH HAS BEEN BARED BY CONSTRUCTION AND SHALL STAY IN PLACE UNTIL ACCEPTABLE VEGETATIVE GROWTH IS ESTABLISHED AFTER CONSTRUCTION IS COMPLETE AND THEN REMOVED BY CONTRACTOR.

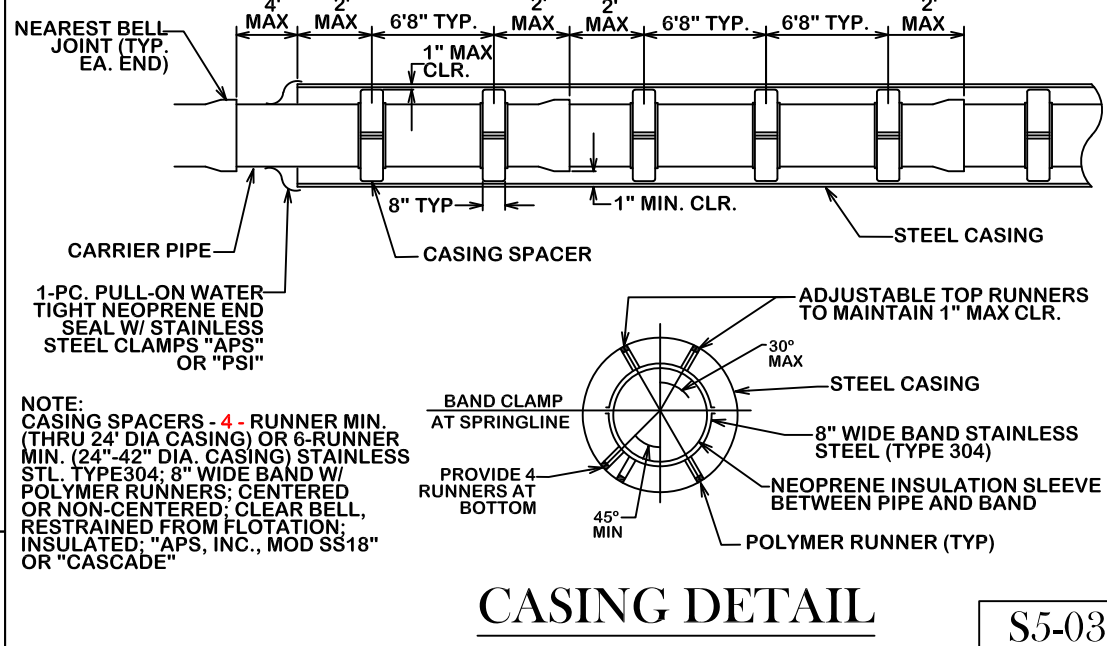
ALL EROSION CONTROL MEASURES SHOULD BE CLEANED OF SILT AFTER EVERY RAIN.

ESTABLISHMENT OF VEGETATION MAY BE A WARRANTY ITEM.



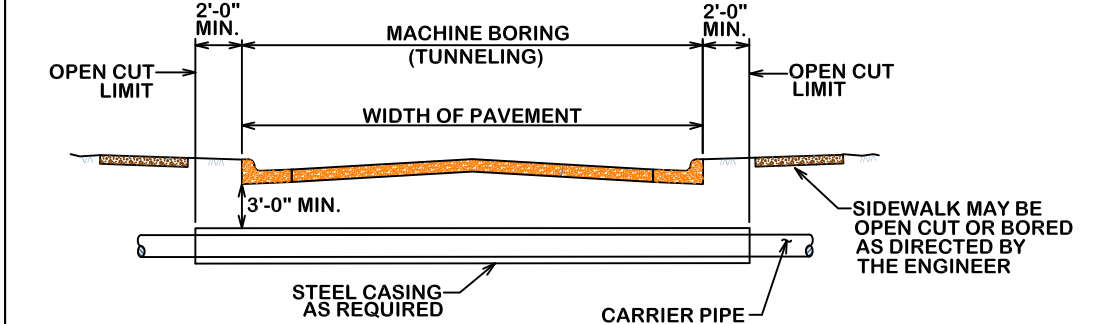
STRUCTURAL BACKFILL AREA

S5-00



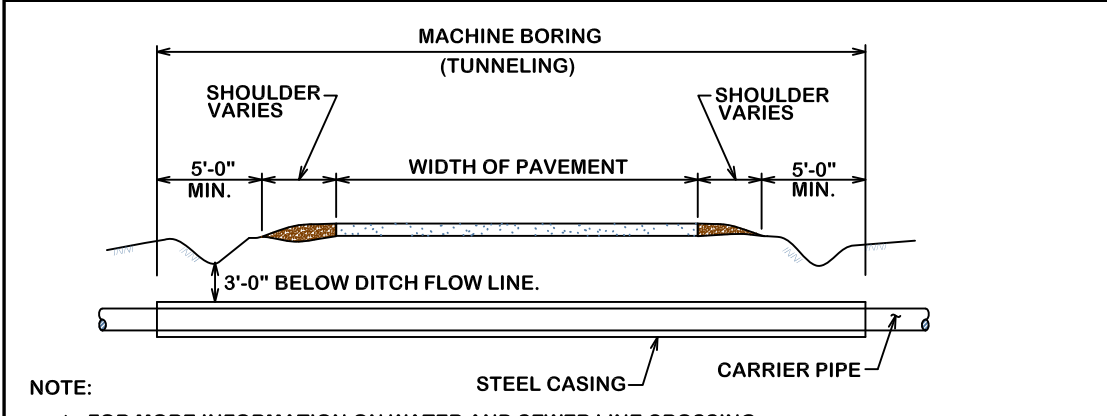
CASING DETAIL

S5-03



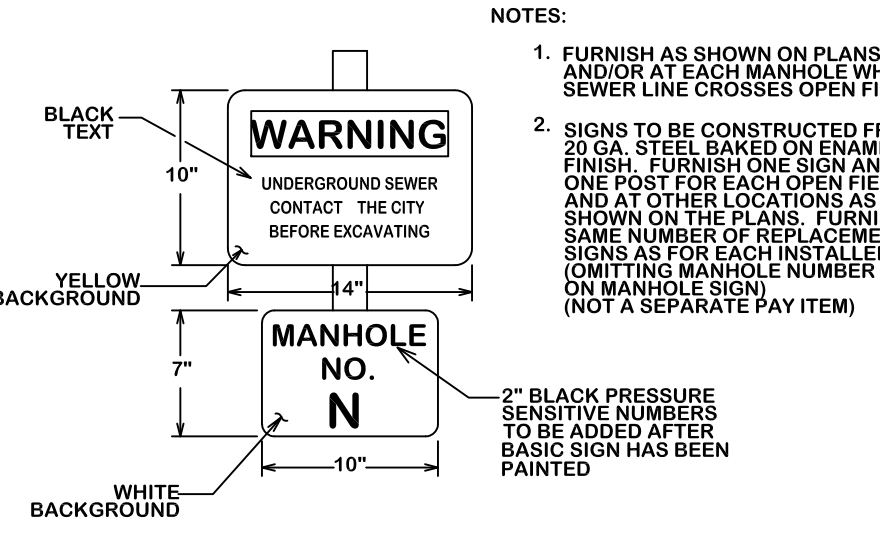
TYPICAL URBAN CITY STREET CROSSING

S5-04



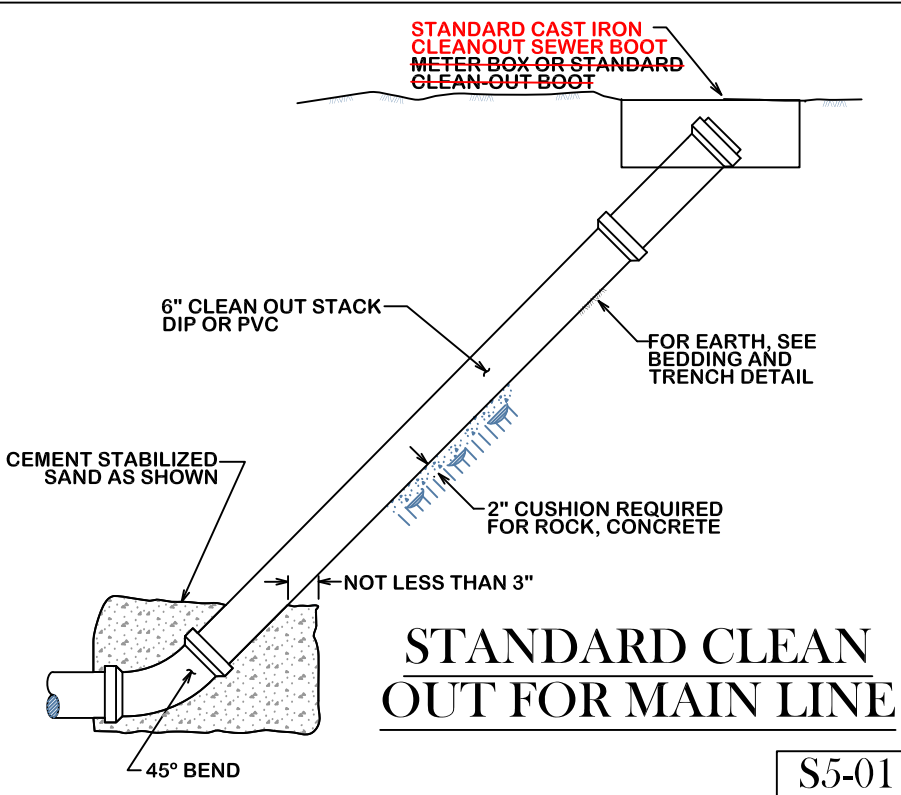
TYPICAL RURAL STREET CROSSING

S5-05



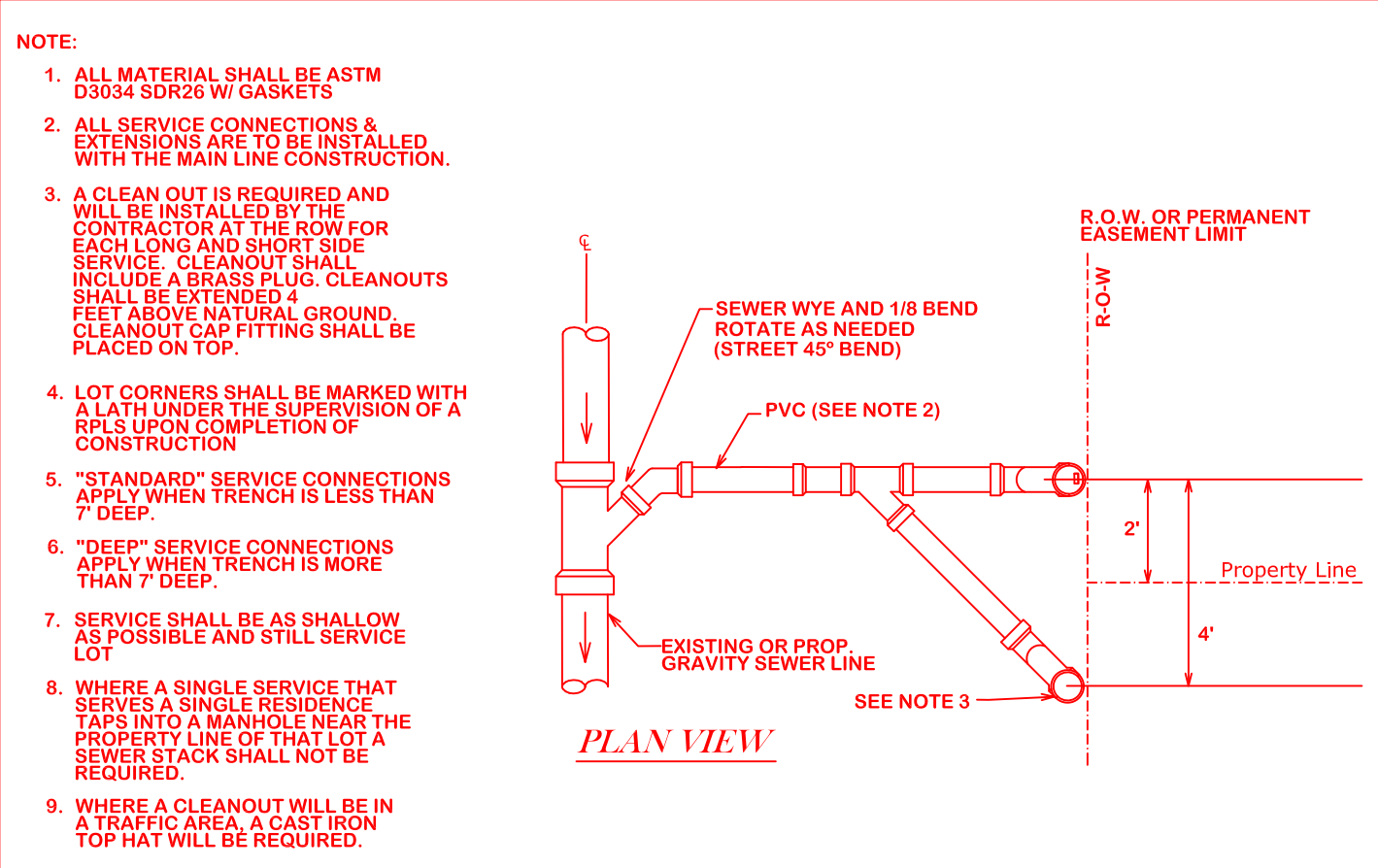
SEWER WARNING AND MANHOLE IDENTIFICATION SIGN

S5-02



STANDARD CLEAN OUT FOR MAIN LINE

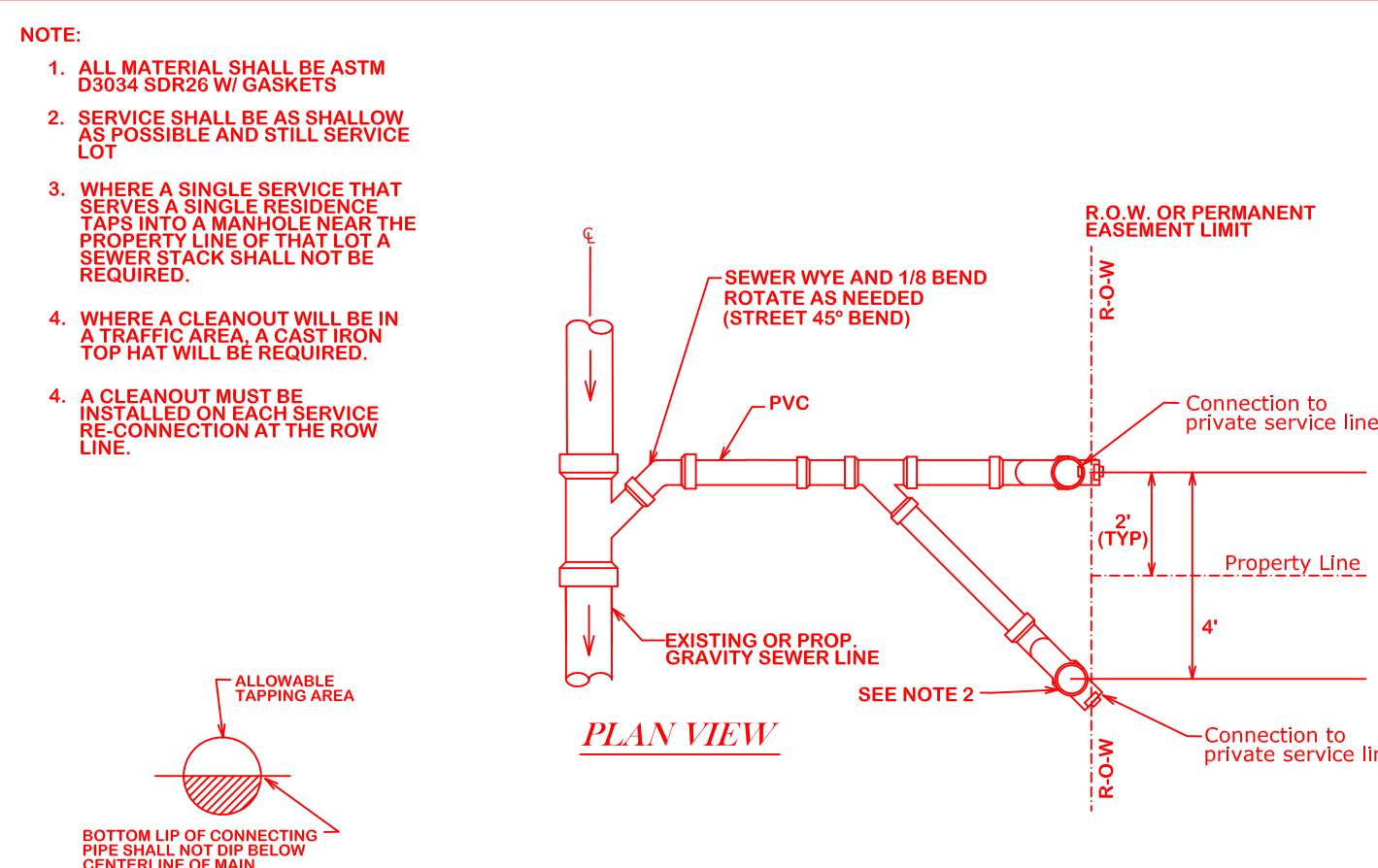
S5-01



CITY OF BRYAN STANDARD SEWER SERVICE CONNECTION

NEW CONSTRUCTION ONLY

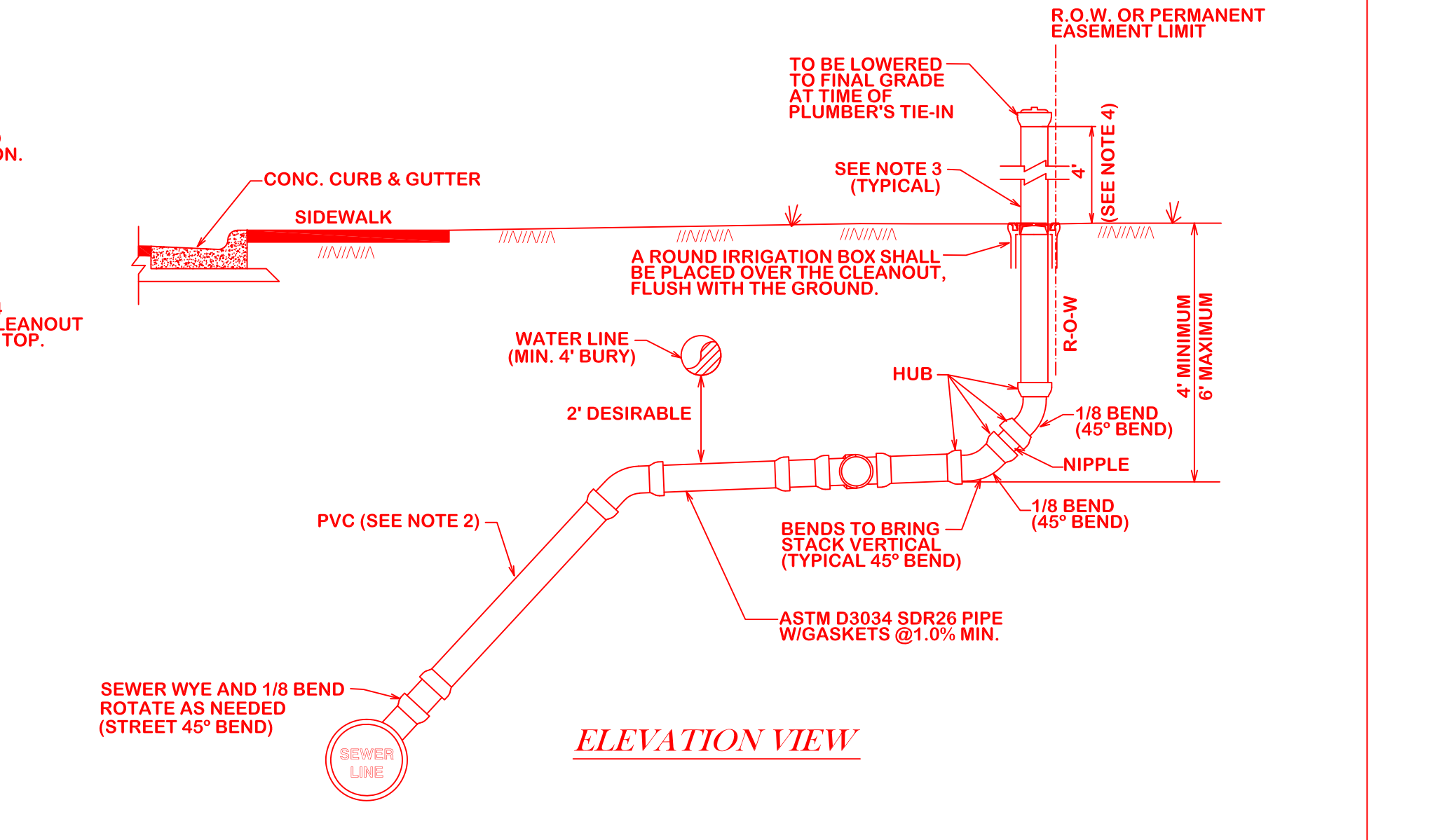
S6-00



CITY OF BRYAN STANDARD SEWER SERVICE RE-CONNECTION

PLUMBER CONNECTION OR CIP RECONSTRUCTION

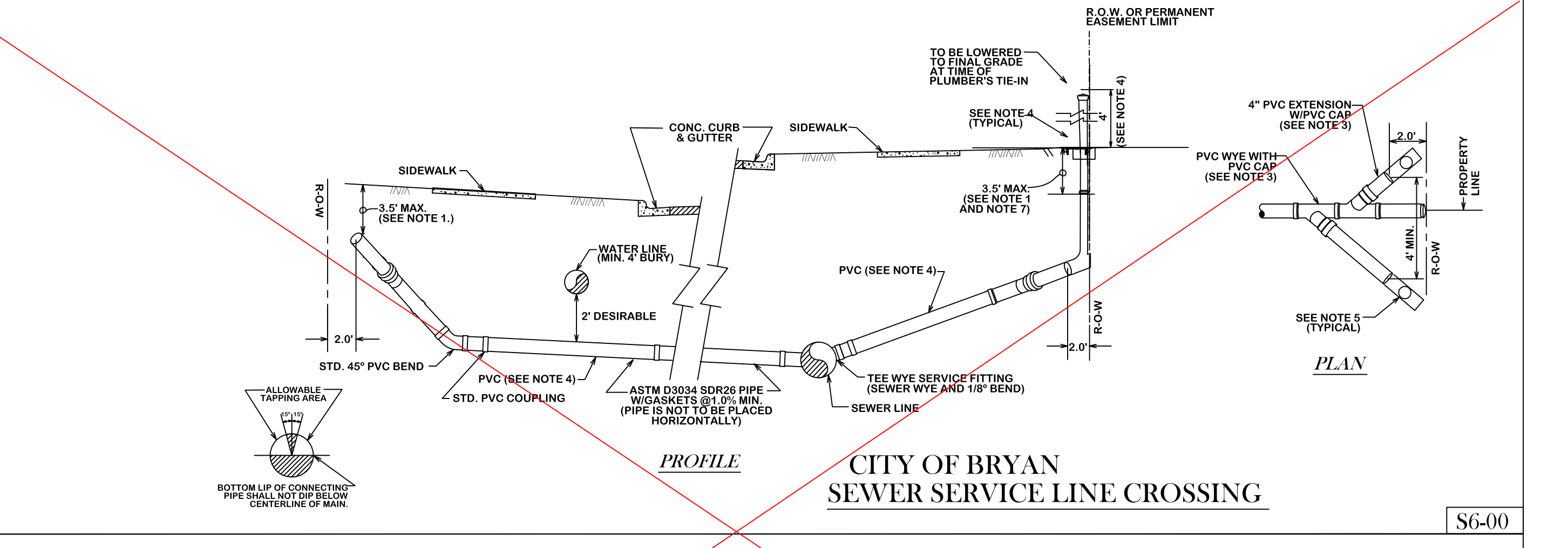
S6-01



CITY OF BRYAN SEWER DEEP SERVICE CONNECTION

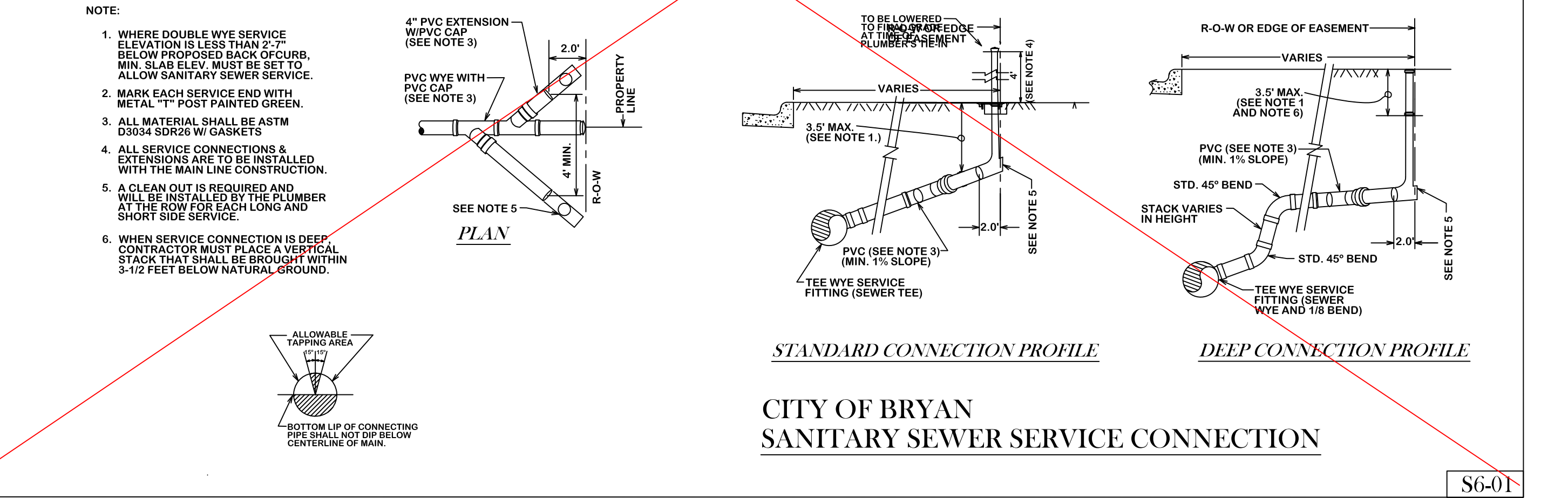
NEW CONSTRUCTION ONLY

S8-00



CITY OF BRYAN SEWER SERVICE LINE CROSSING

S6-00



CITY OF BRYAN SANITARY SEWER SERVICE CONNECTION

S6-01

REVISIONS:
S6-00 & S6-01 revised 10/26/2012.

**BRYAN - COLLEGE STATION
STANDARD SEWER DETAILS**

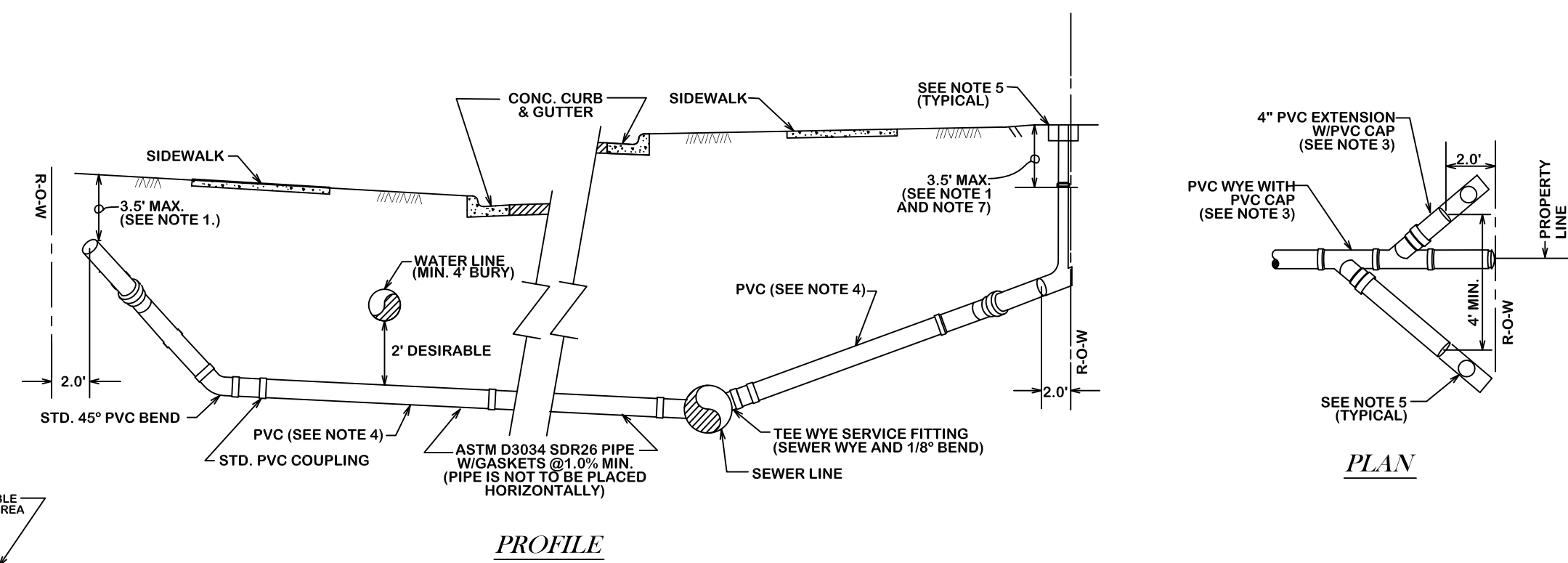


DRAWN BY: B.I.
DATE: 02-24-21
SCALE: N T S
APPROVED: W. P. K.

FIGURE:
S2
SHEET 2 OF 3

NOTE:

- WHERE DOUBLE WYE SERVICE ELEVATION IS LESS THAN 2'-7" BELOW PROPOSED BACK OF CURB, MIN. SLAB ELEV. MUST BE SET TO ALLOW SANITARY SEWER SERVICE.
- MARK EACH SERVICE END WITH METAL "T" POST PAINTED GREEN.
- ALL MATERIAL SHALL BE ASTM D3034 SDR26 W/ GASKETS.
- ALL SERVICE CONNECTIONS & EXTENSIONS ARE TO BE INSTALLED WITH THE MAIN LINE CONSTRUCTION.
- A CLEAN OUT IS REQUIRED AND WILL BE INSTALLED BY THE PLUMBER AT THE ROW FOR EACH LONG AND SHORT SIDE SERVICE.
- LOT CORNERS SHALL BE MARKED WITH A LATH UNDER THE SUPERVISION OF A R.P.S. UPON COMPLETION OF CONSTRUCTION.
- WHEN SERVICE CONNECTION IS DEEP CONTRACTOR MUST PLACE A VERTICAL STACK THAT SHALL BE BROUGHT WITHIN 3-1/2 FEET BELOW NATURAL GROUND.

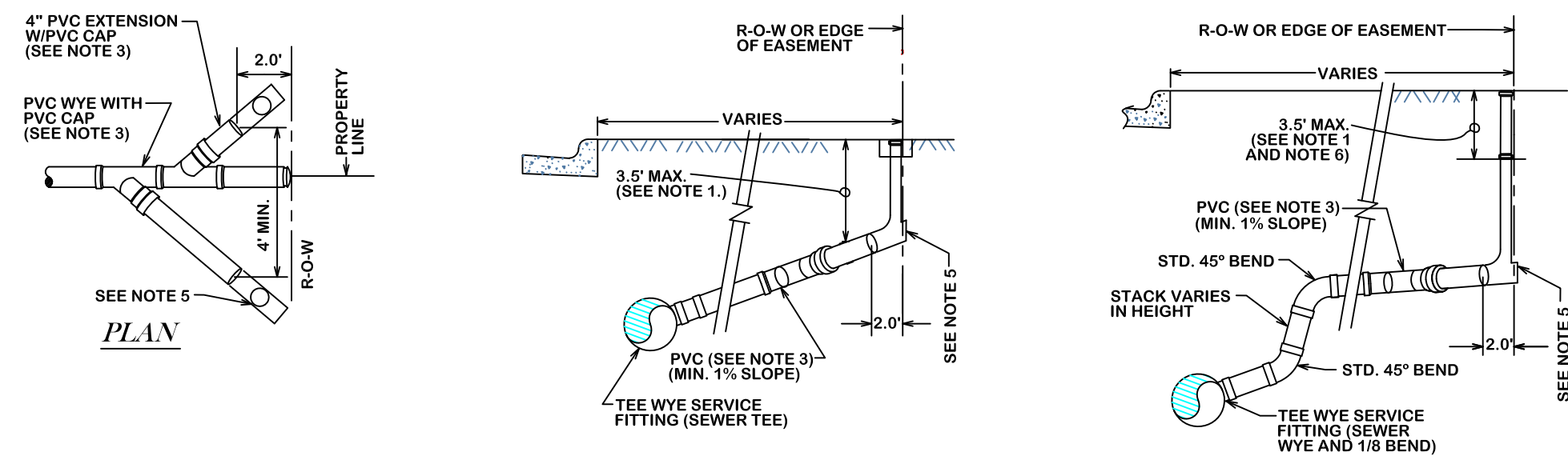


CITY OF COLLEGE STATION
SEWER SERVICE LINE CROSSING

S7-00

NOTE:

- WHERE DOUBLE WYE SERVICE ELEVATION IS LESS THAN 2'-7" BELOW PROPOSED BACK OF CURB, MIN. SLAB ELEV. MUST BE SET TO ALLOW SANITARY SEWER SERVICE.
- MARK EACH SERVICE END WITH METAL "T" POST PAINTED GREEN.
- ALL MATERIAL SHALL BE ASTM D3034 SDR26 W/ GASKETS.
- ALL SERVICE CONNECTIONS & EXTENSIONS ARE TO BE INSTALLED WITH THE MAIN LINE CONSTRUCTION.
- A CLEAN OUT IS REQUIRED AND WILL BE INSTALLED BY THE PLUMBER AT THE ROW FOR EACH LONG AND SHORT SIDE SERVICE.
- WHEN SERVICE CONNECTION IS DEEP CONTRACTOR MUST PLACE A VERTICAL STACK THAT SHALL BE BROUGHT WITHIN 3-1/2 FEET BELOW NATURAL GROUND.



CITY OF COLLEGE STATION
SANITARY SEWER SERVICE CONNECTION

S7-01

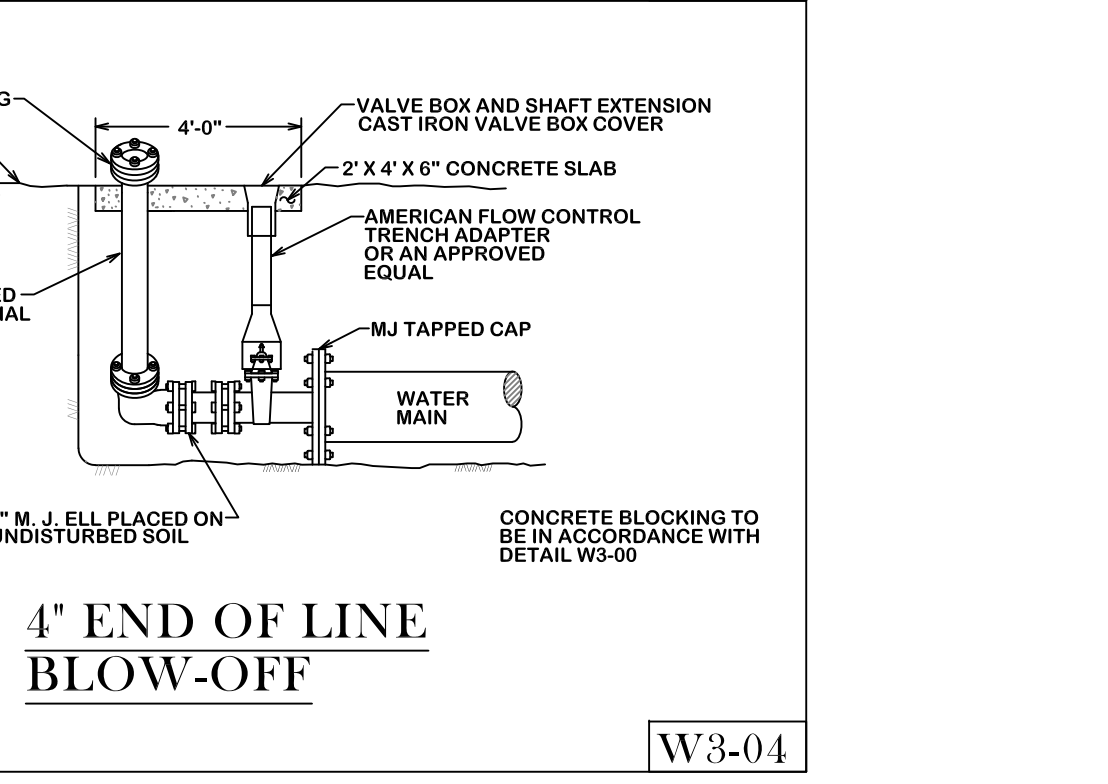
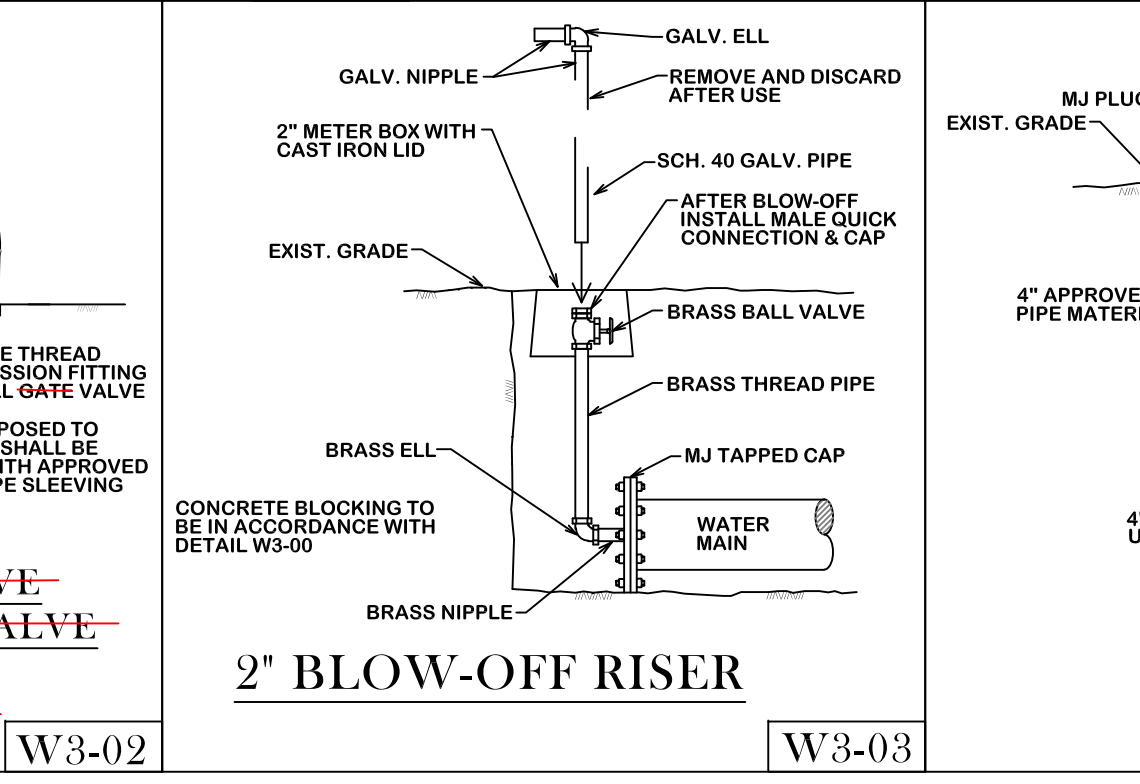
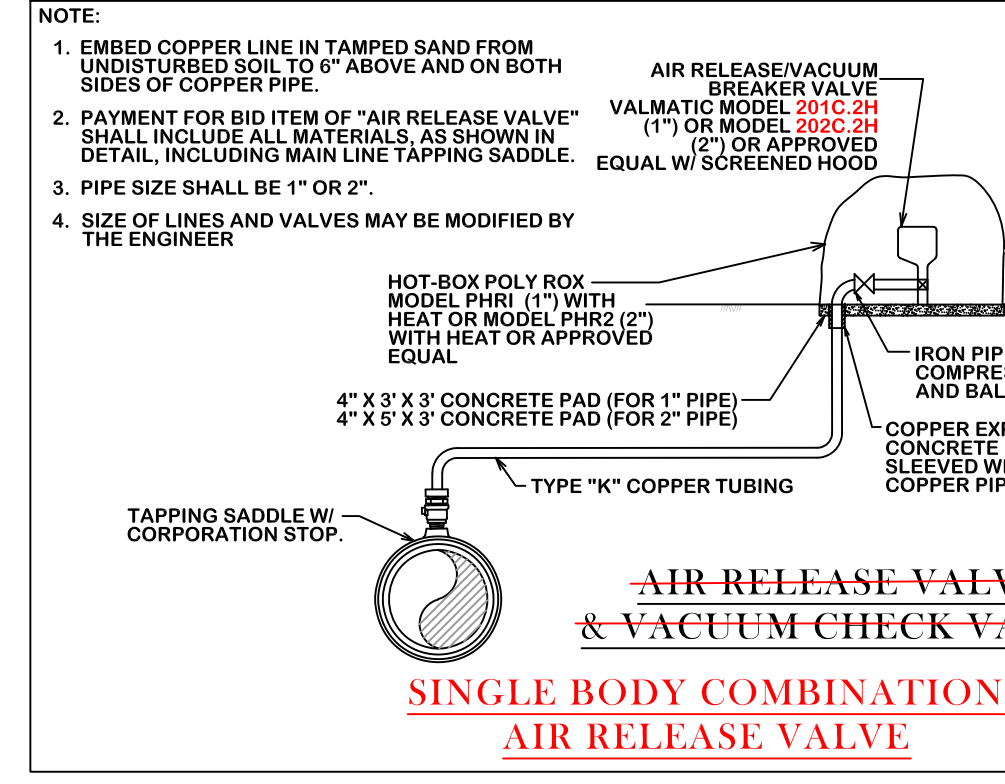
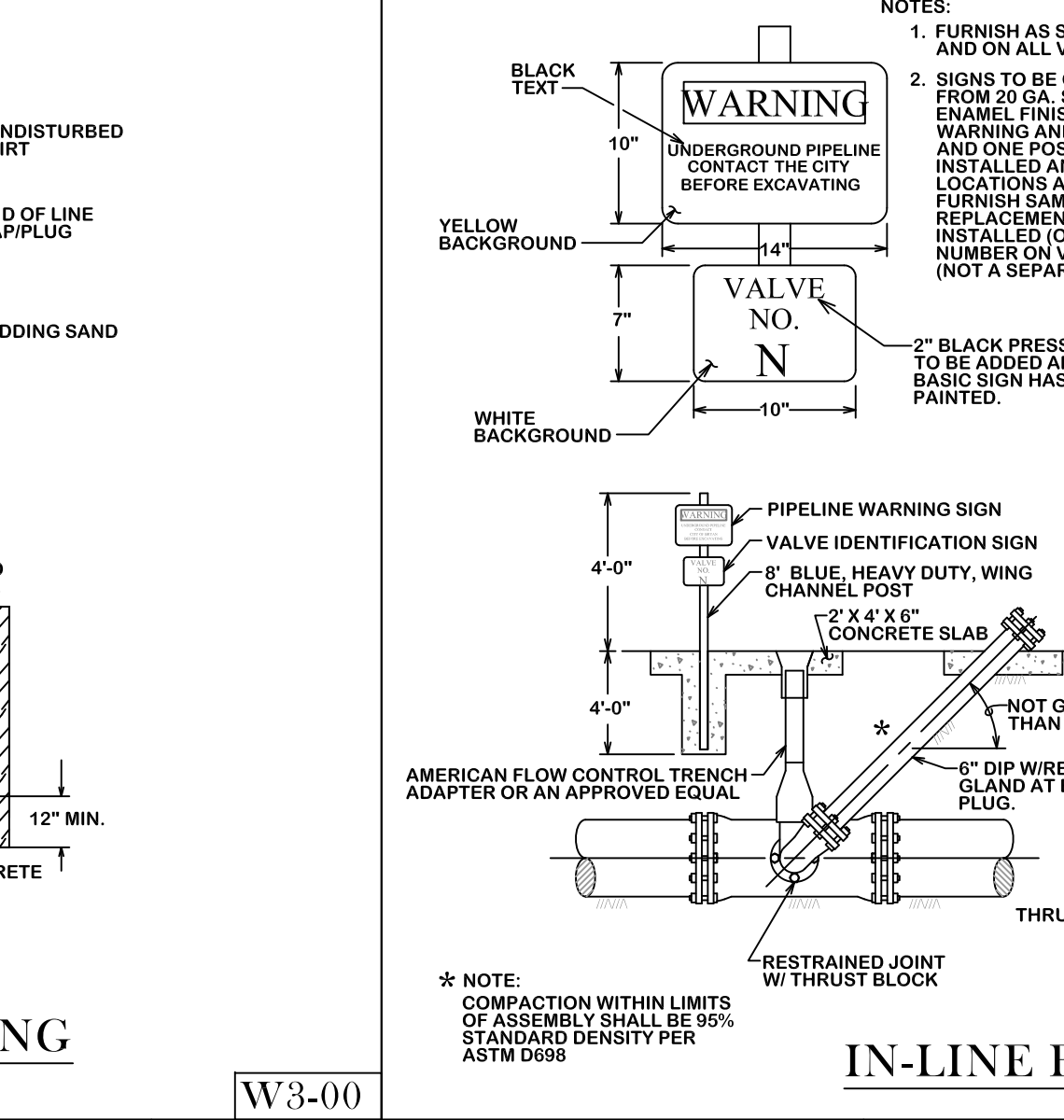
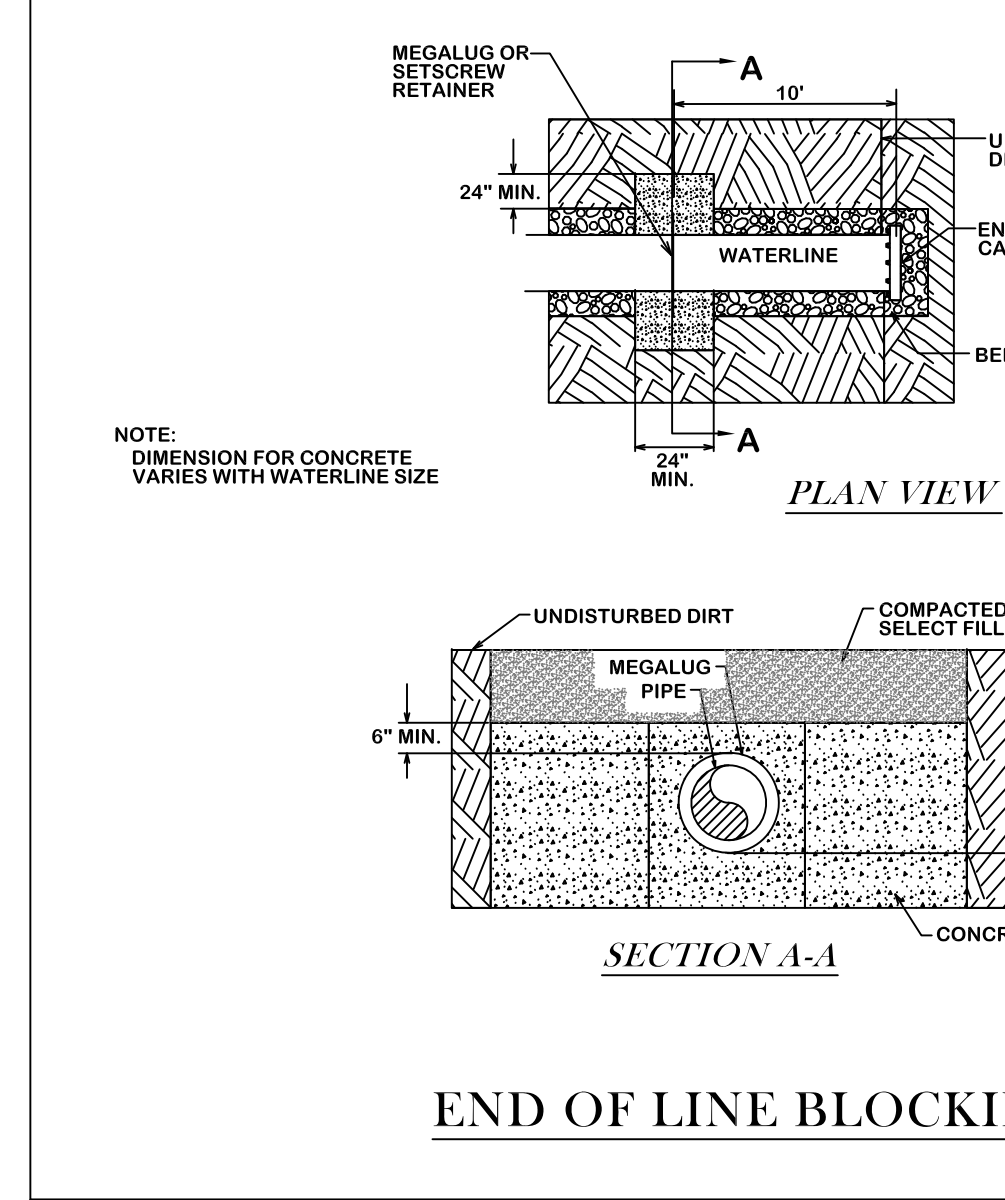
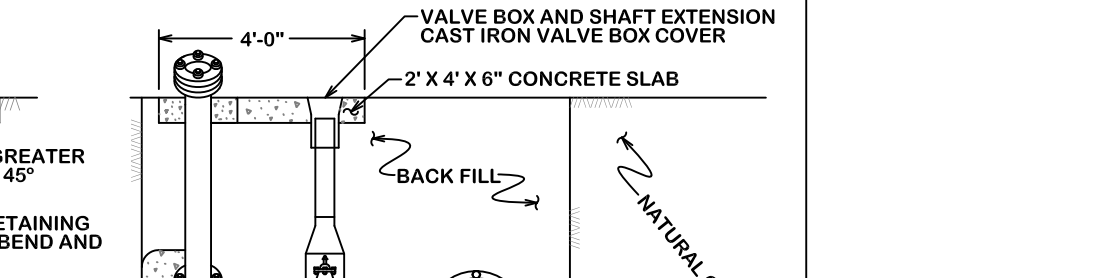
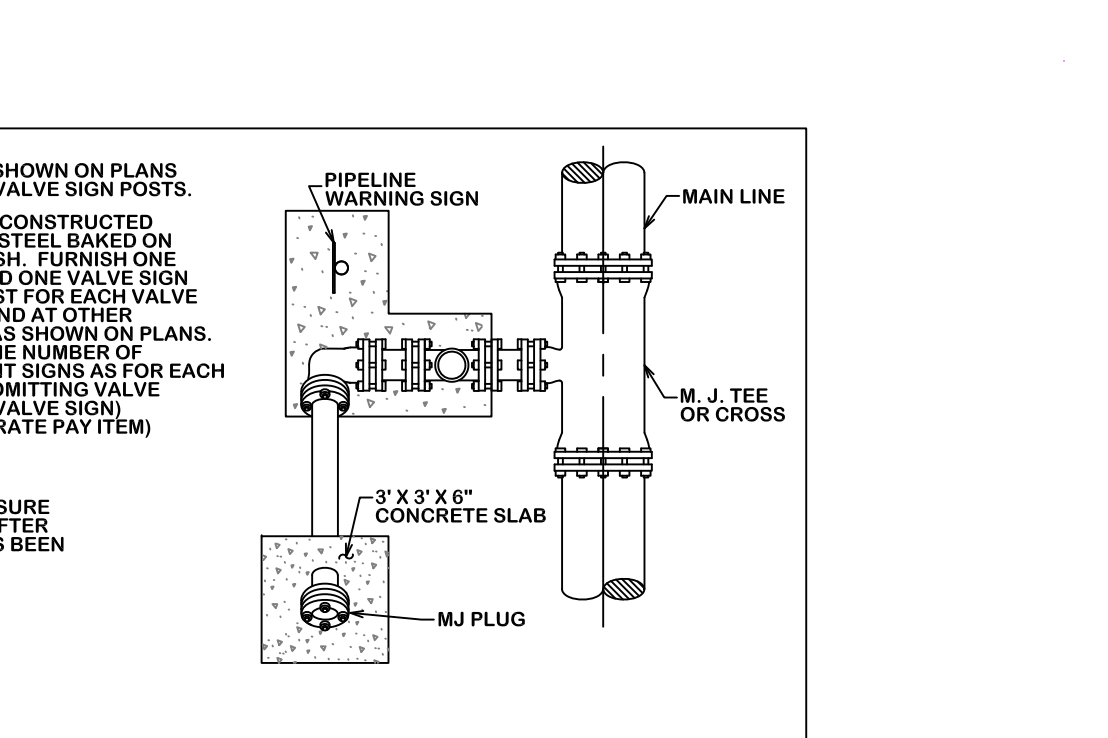
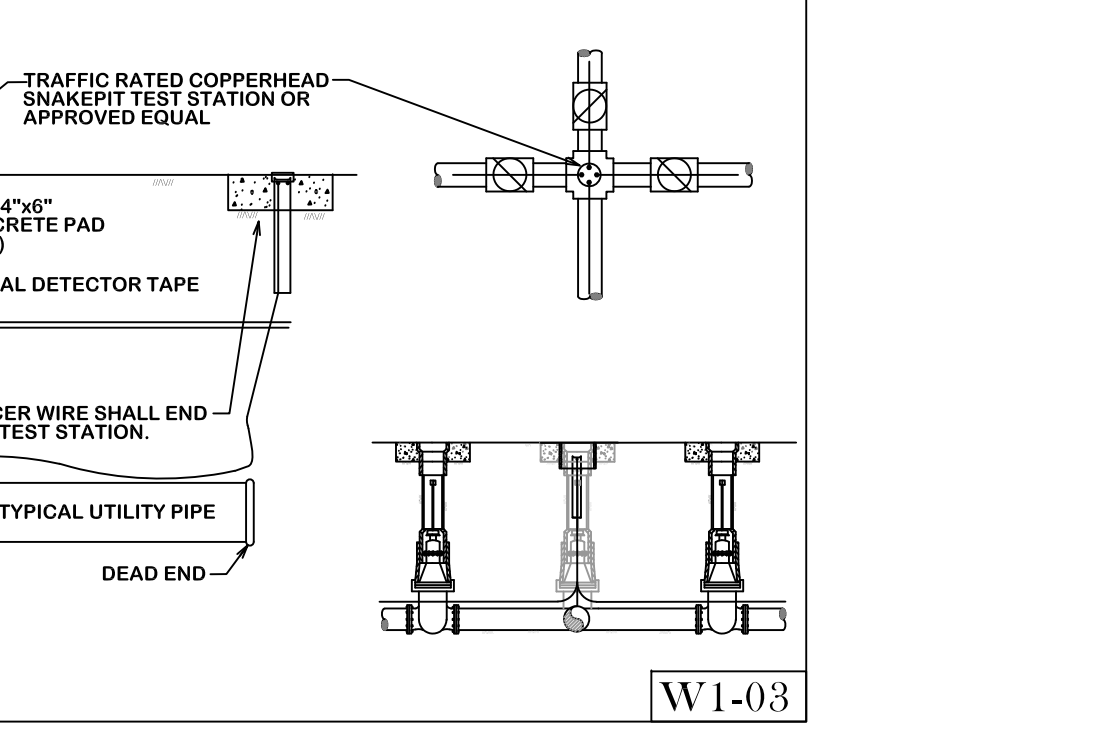
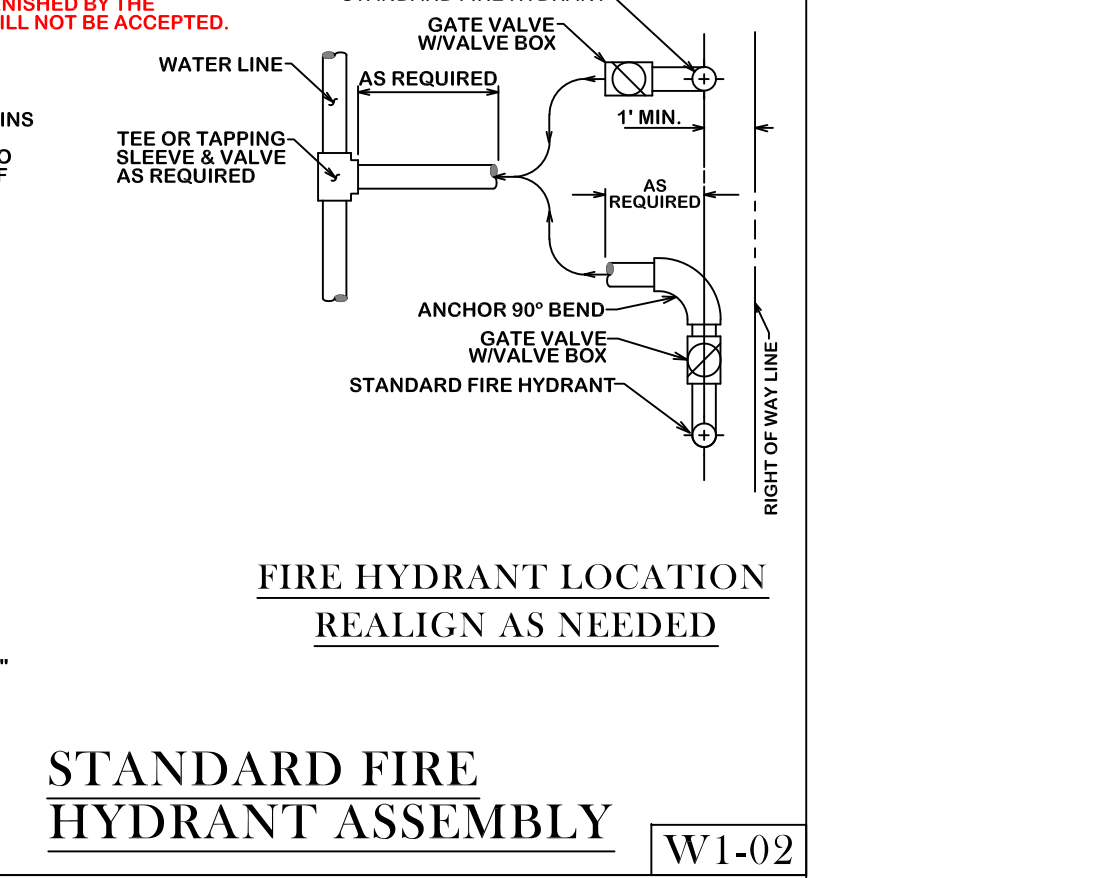
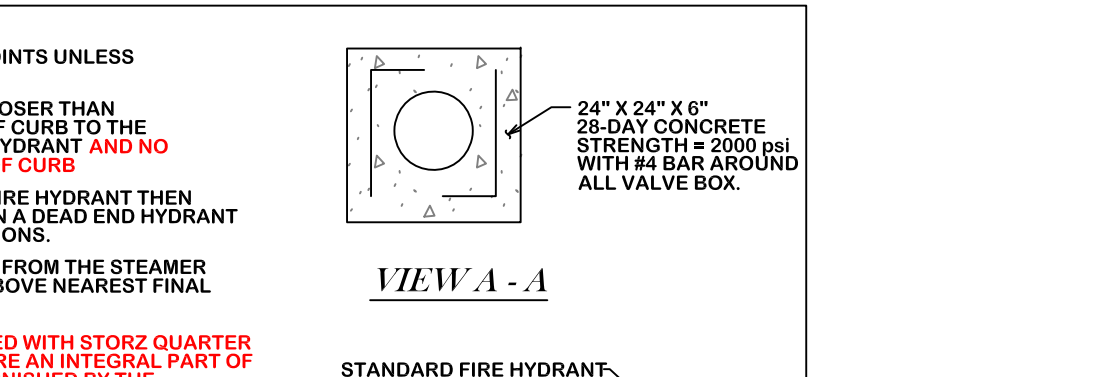
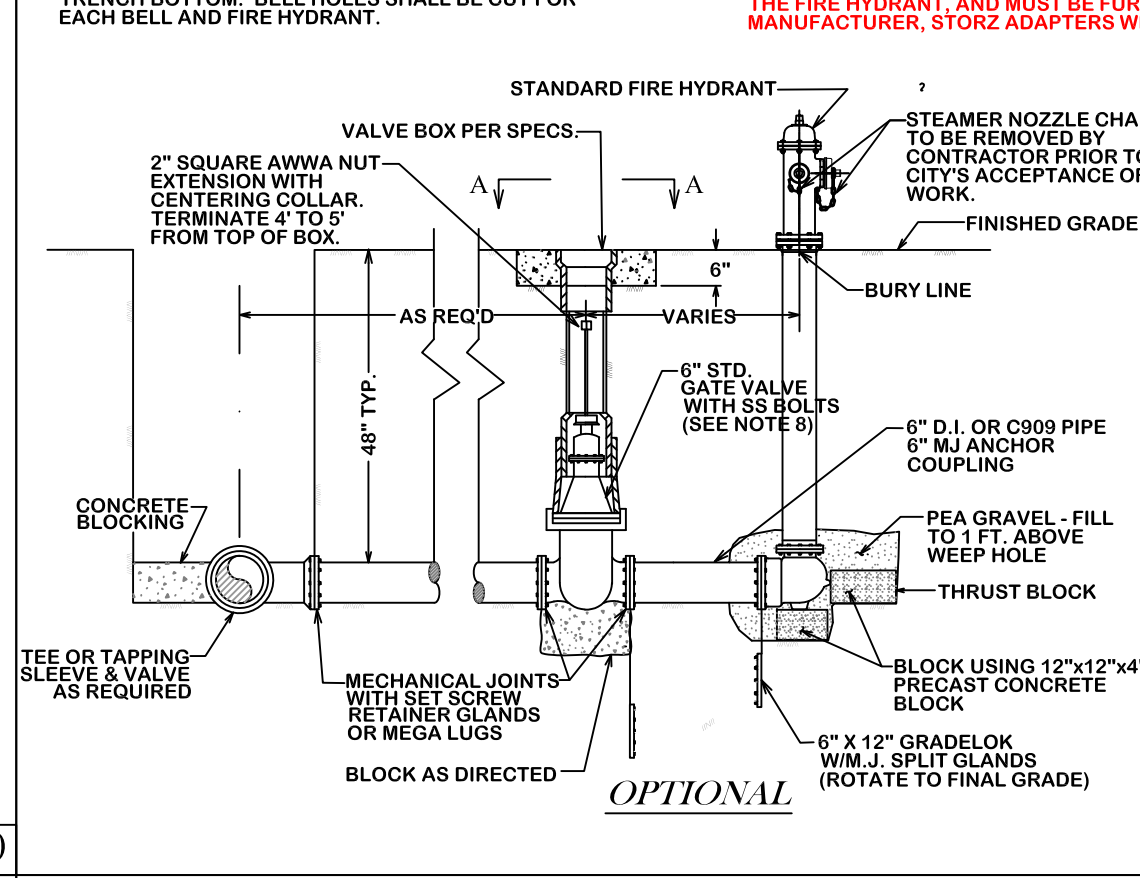
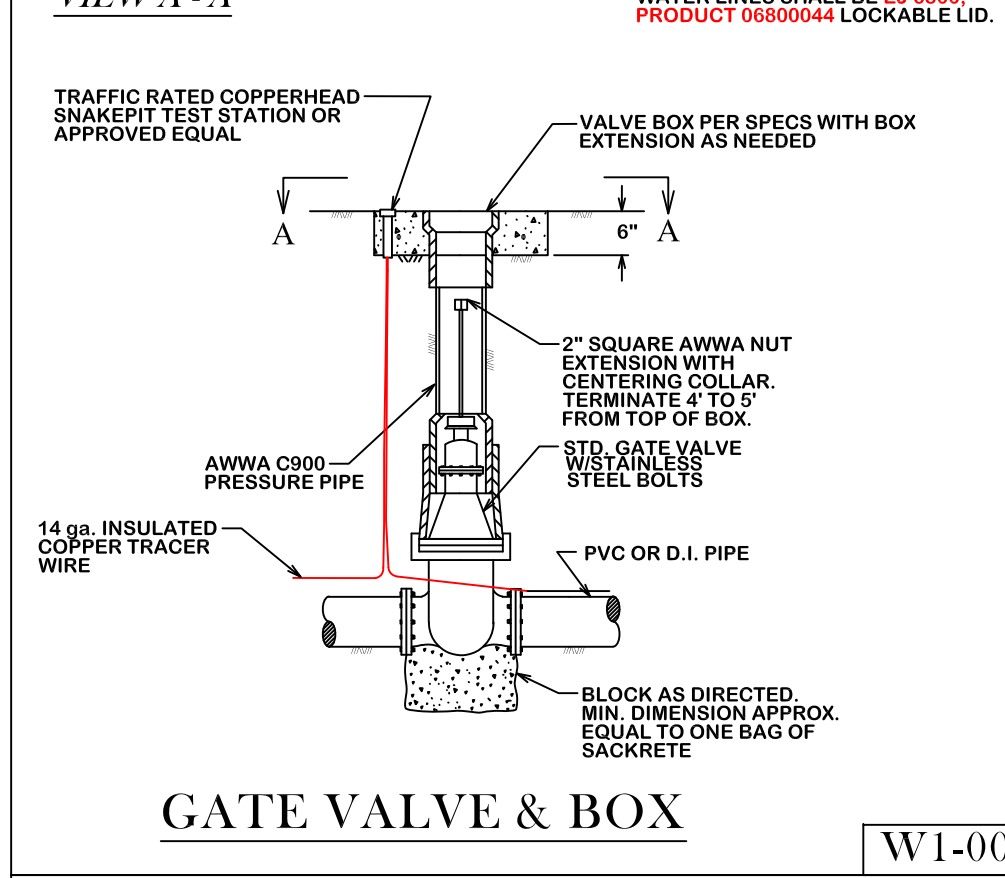
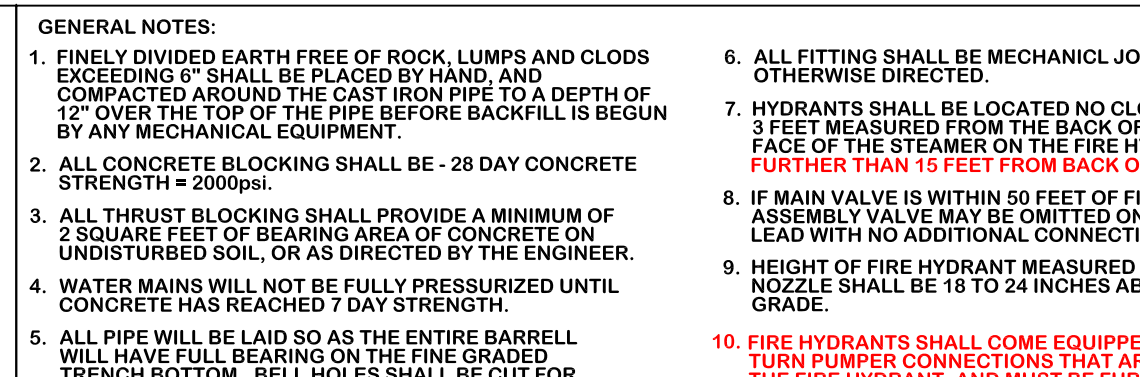
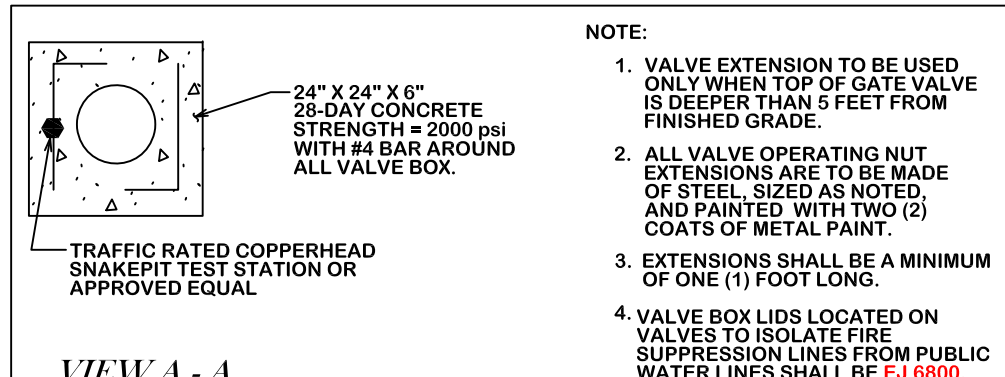
REVISIONS:
S6-00 & S6-01 revised 10/26/2012.

BRYAN - COLLEGE STATION
STANDARD SEWER DETAILS



DRAWN BY: B.I.
DATE: 02-24-21
SCALE: NTS
APPROVED: W. P. K.

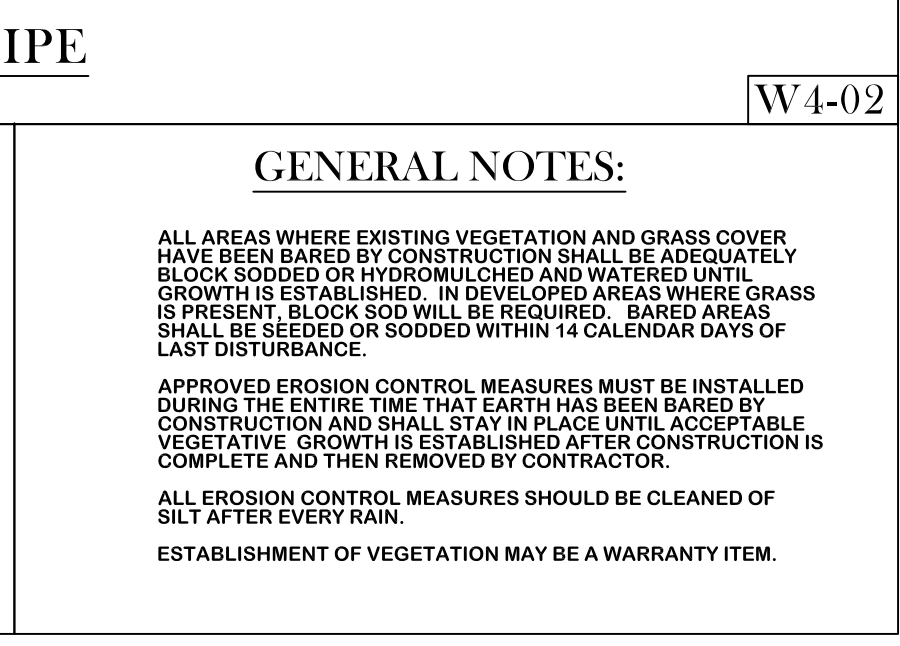
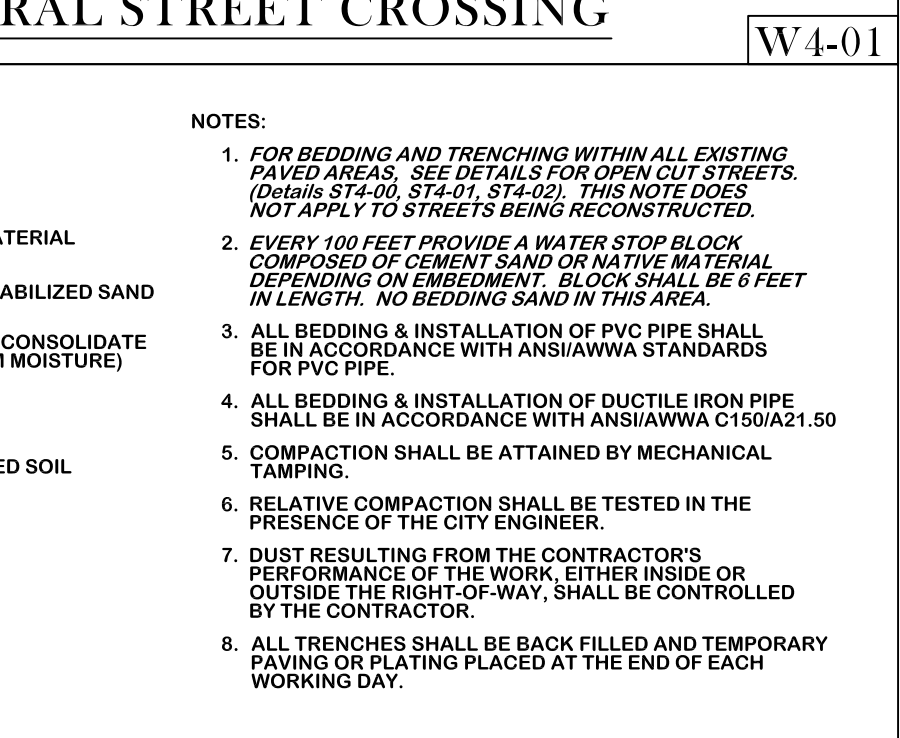
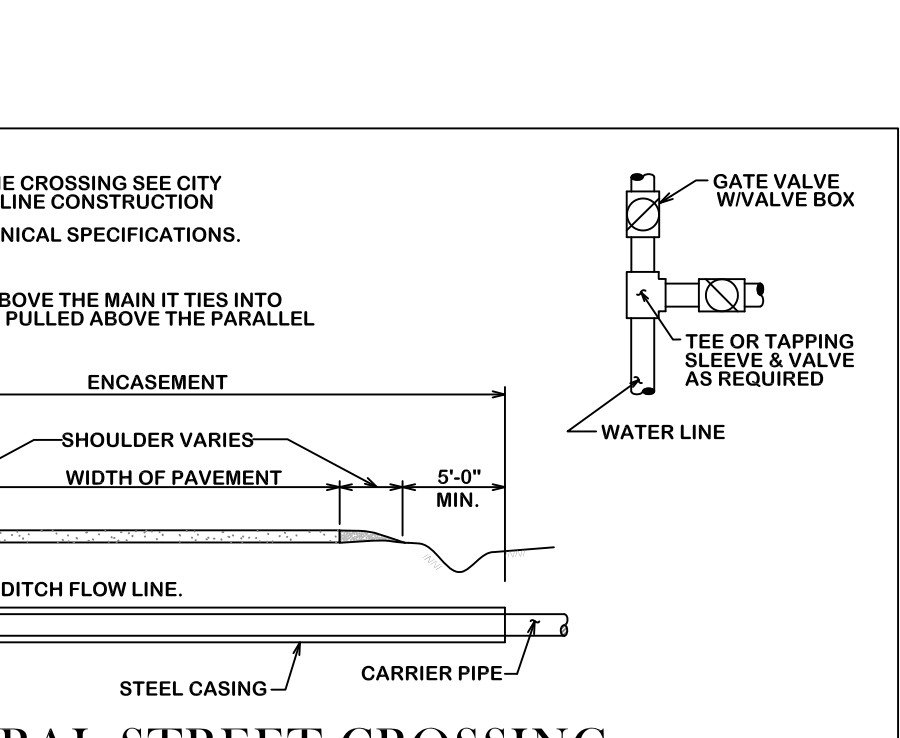
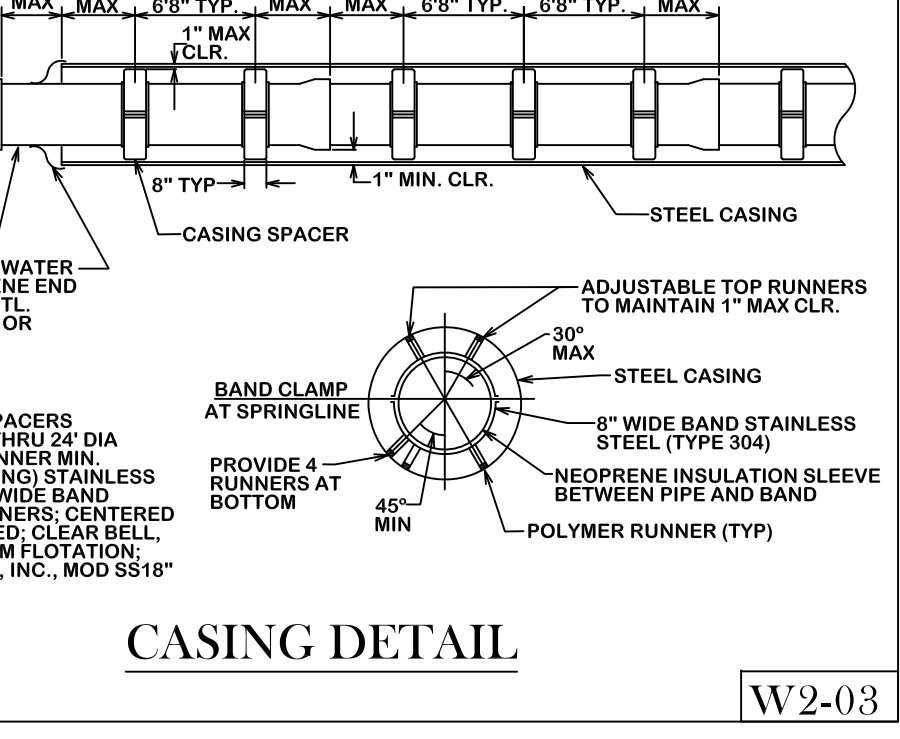
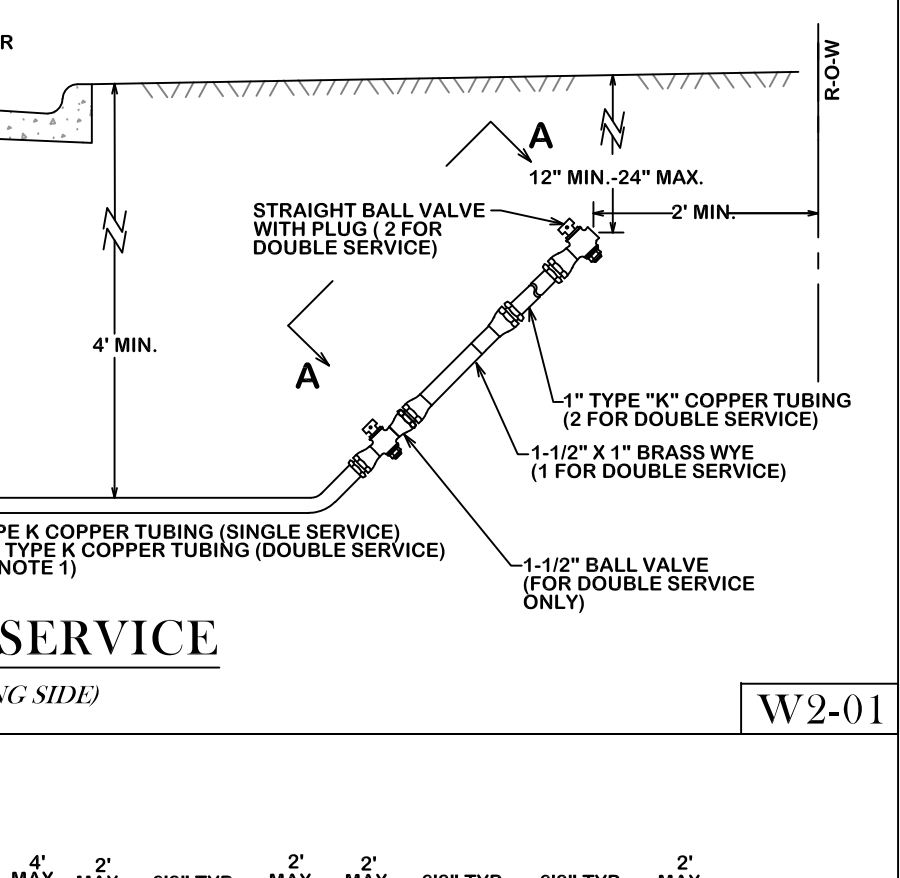
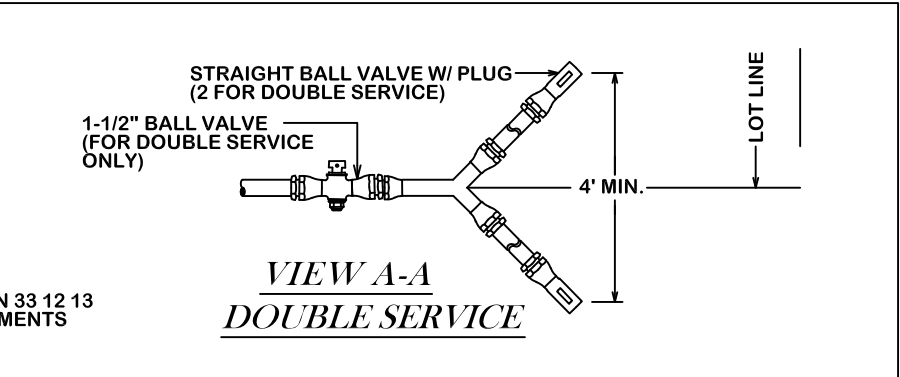
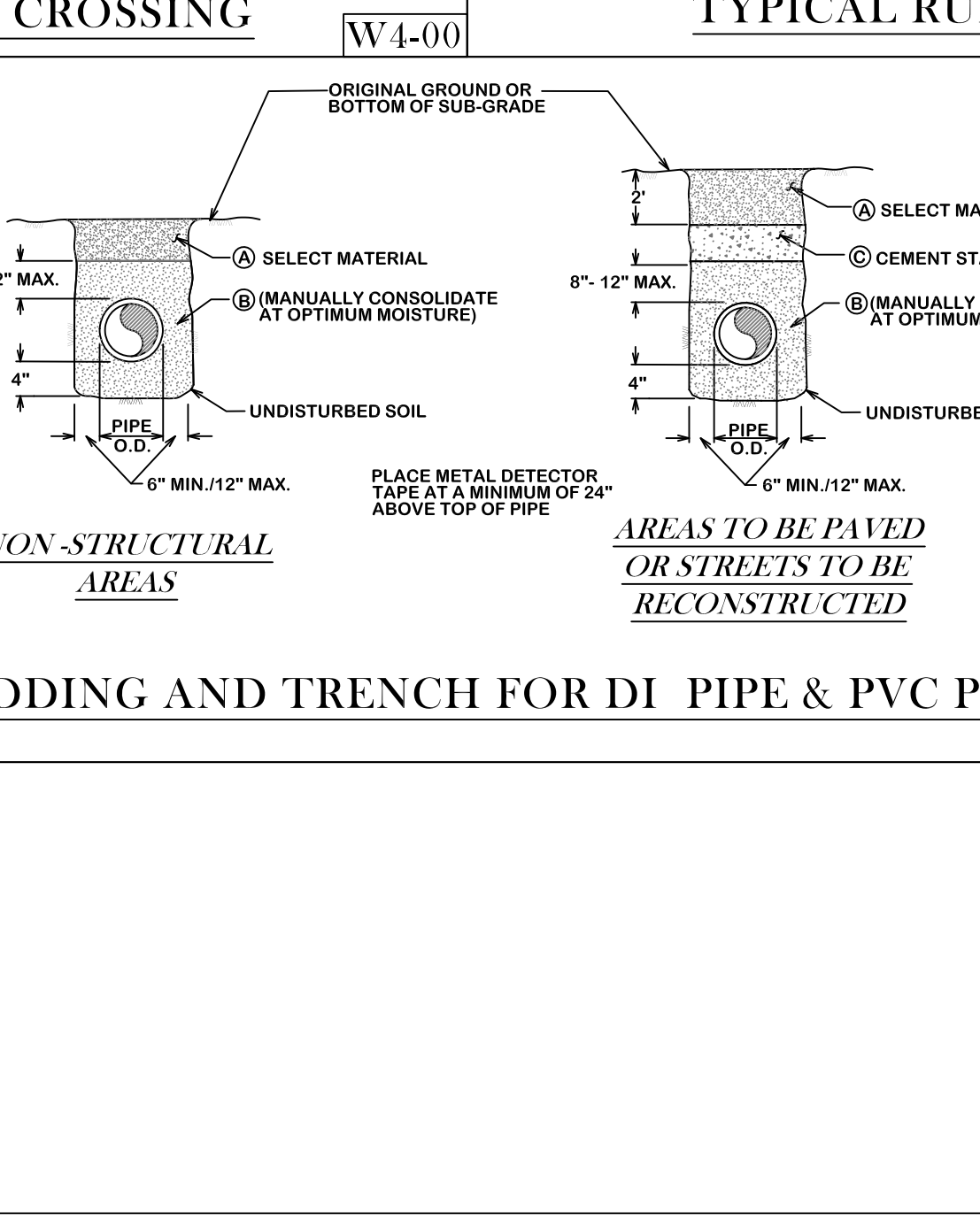
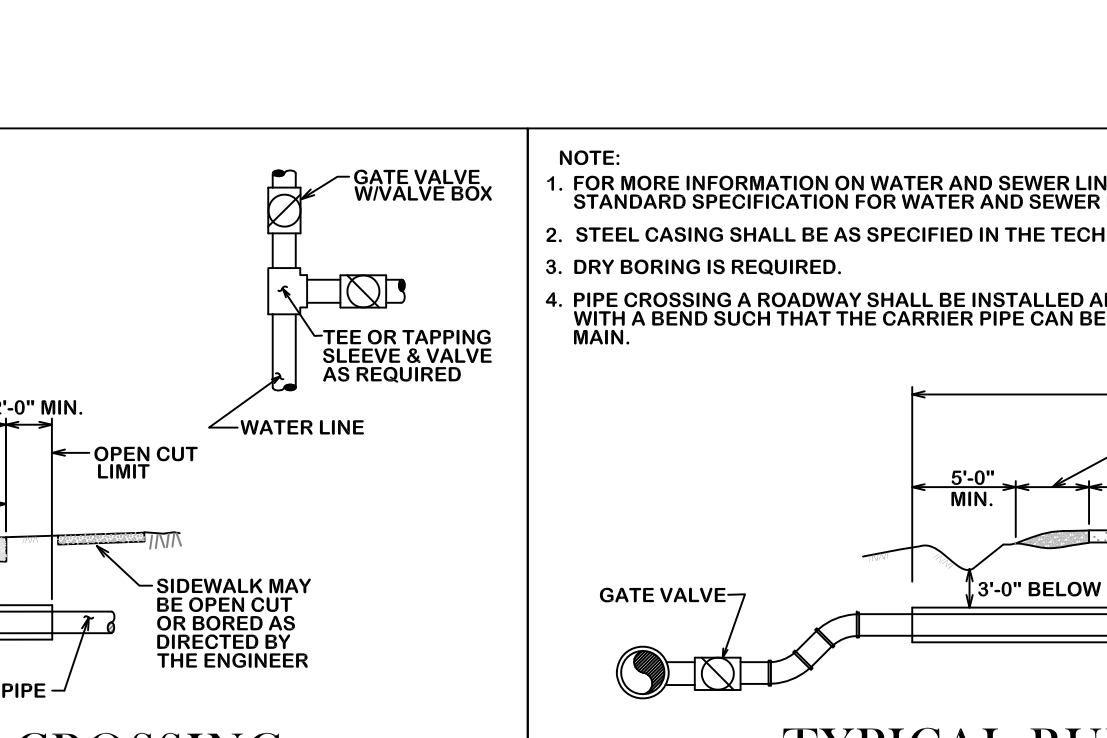
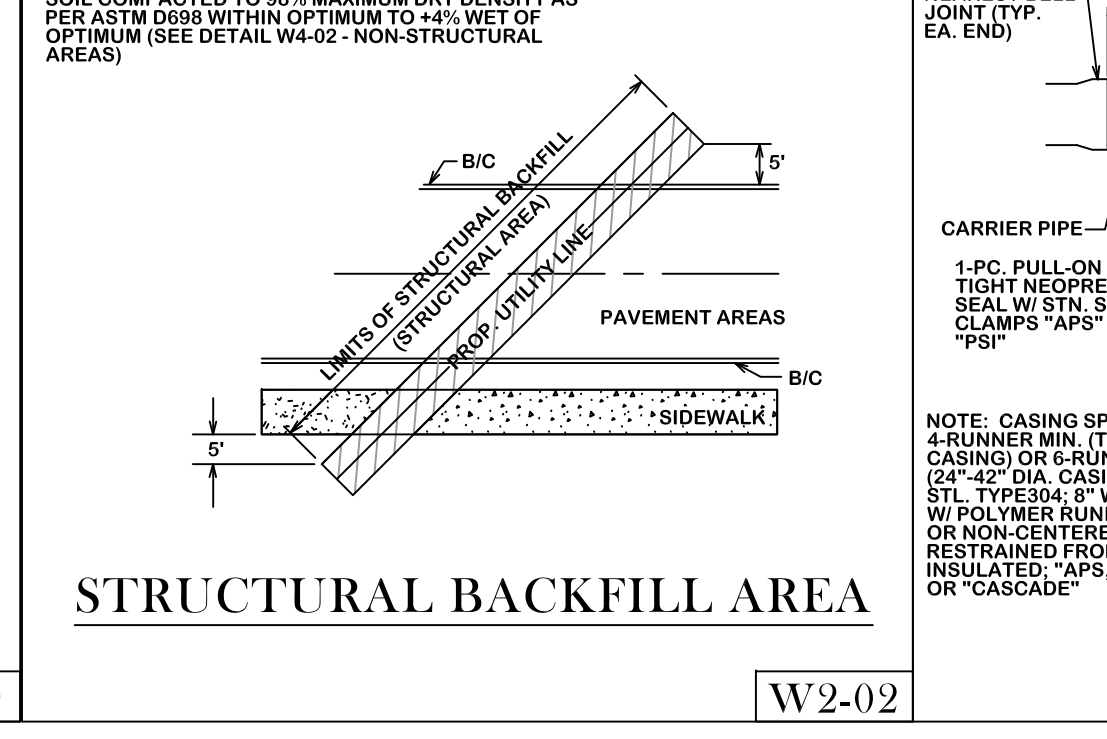
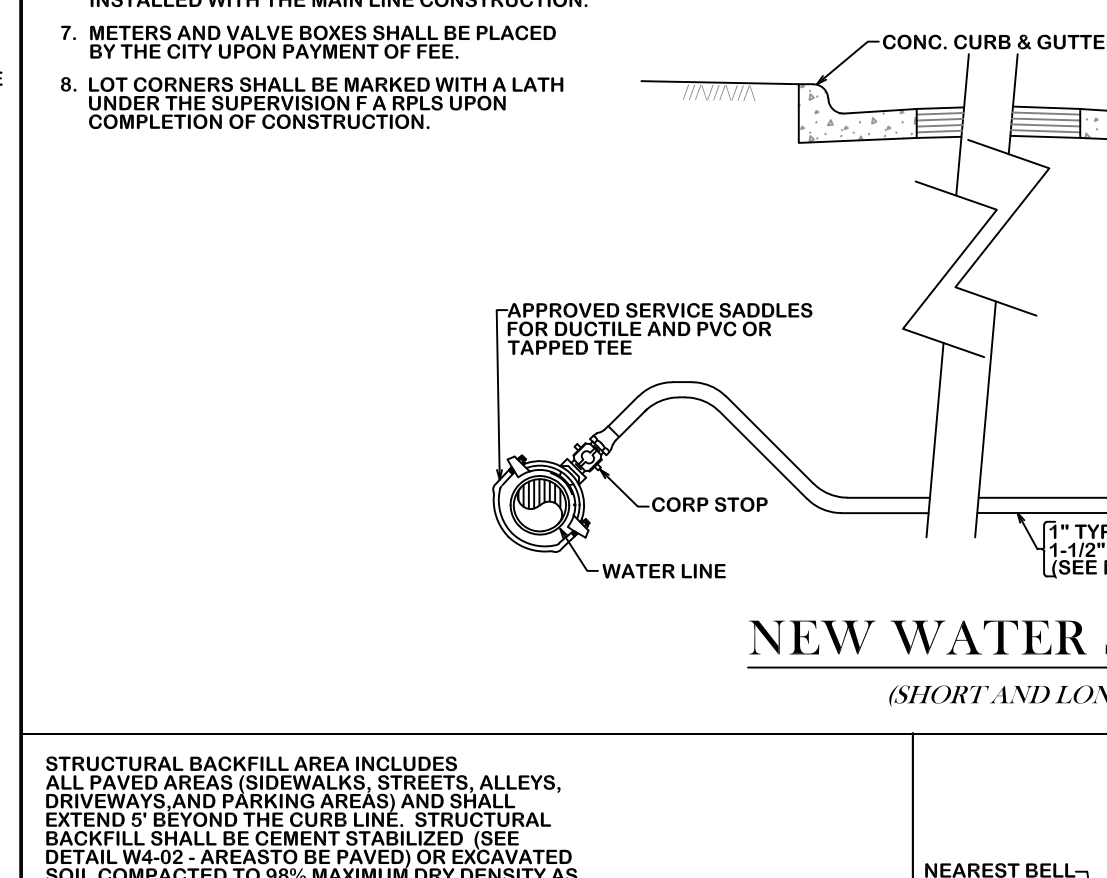
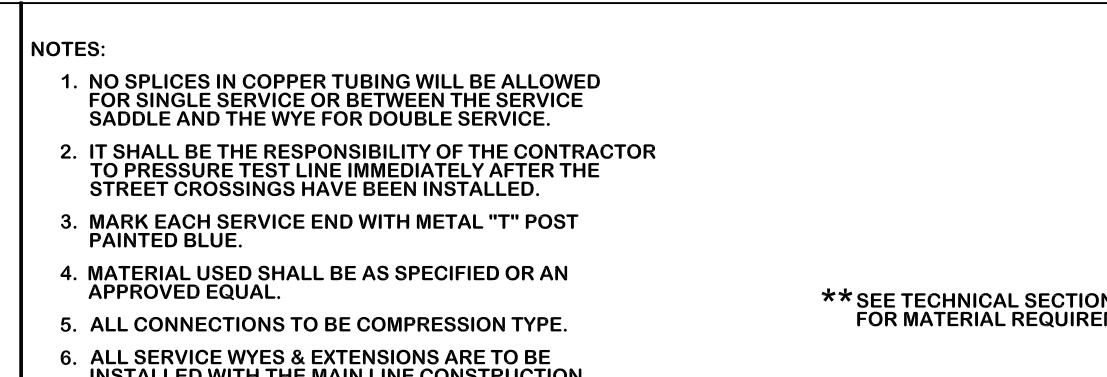
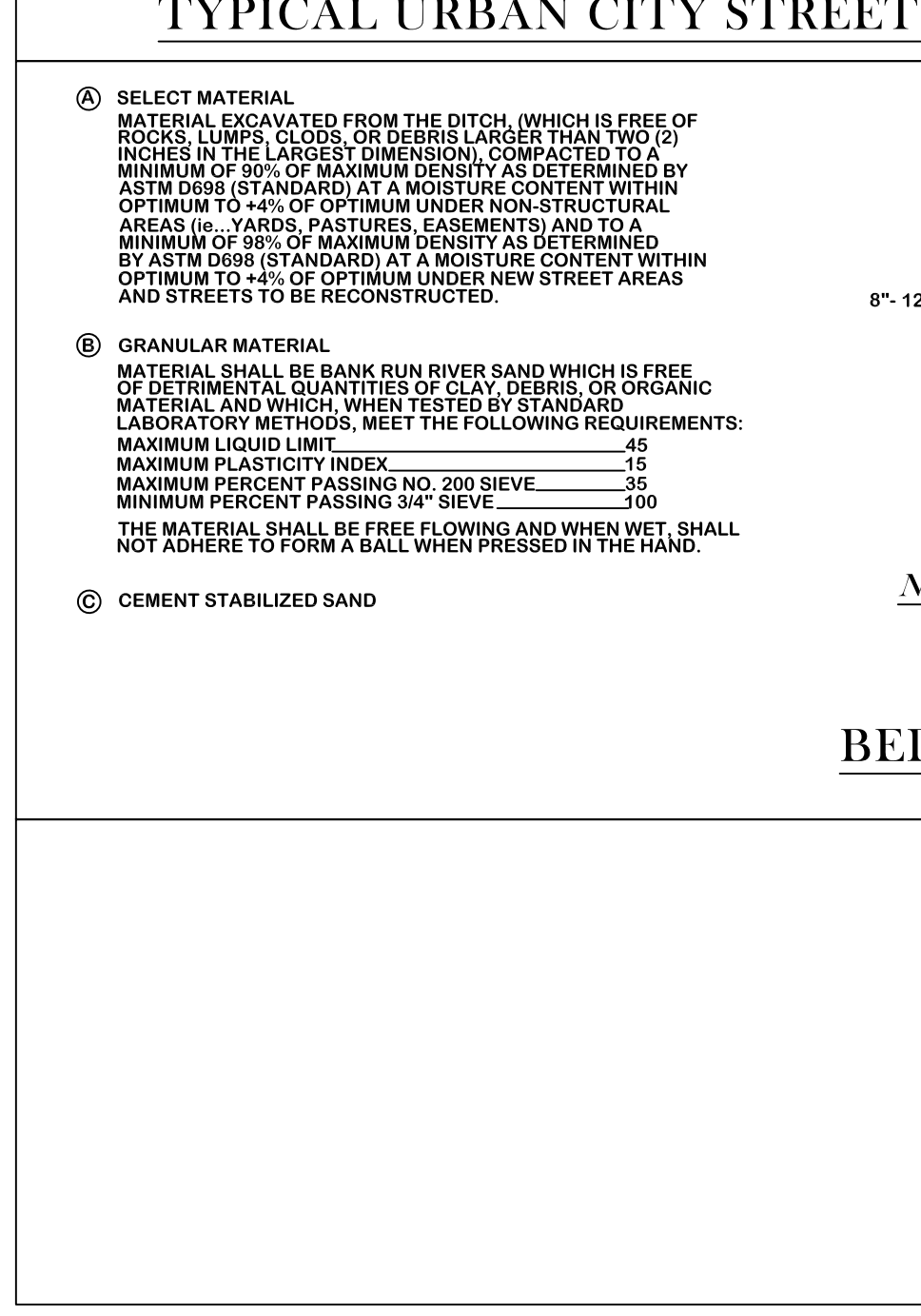
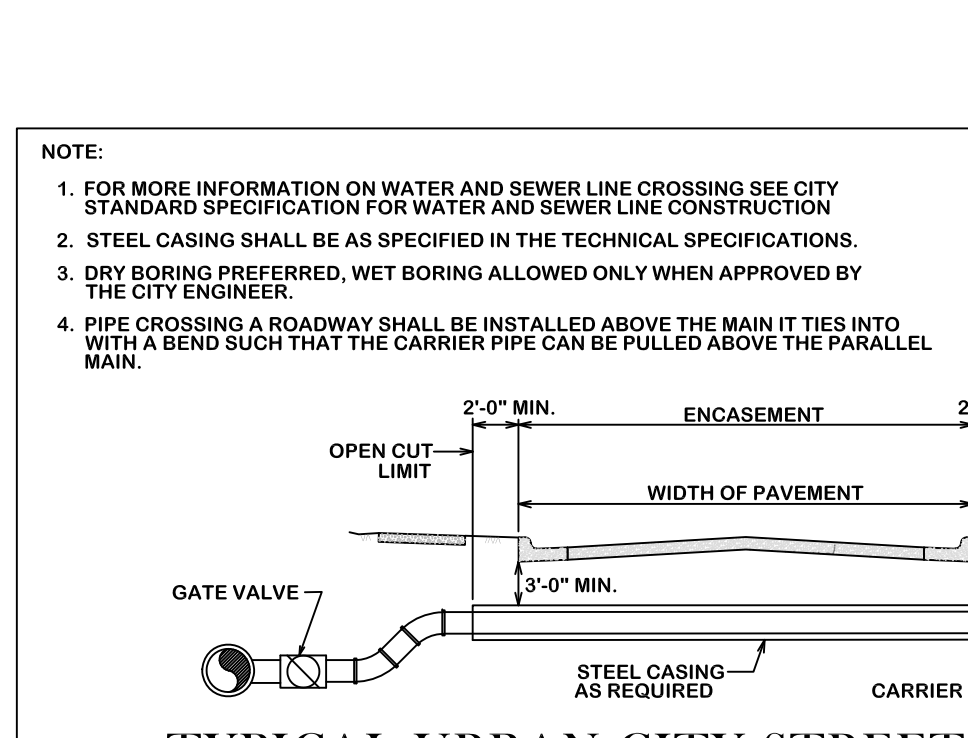
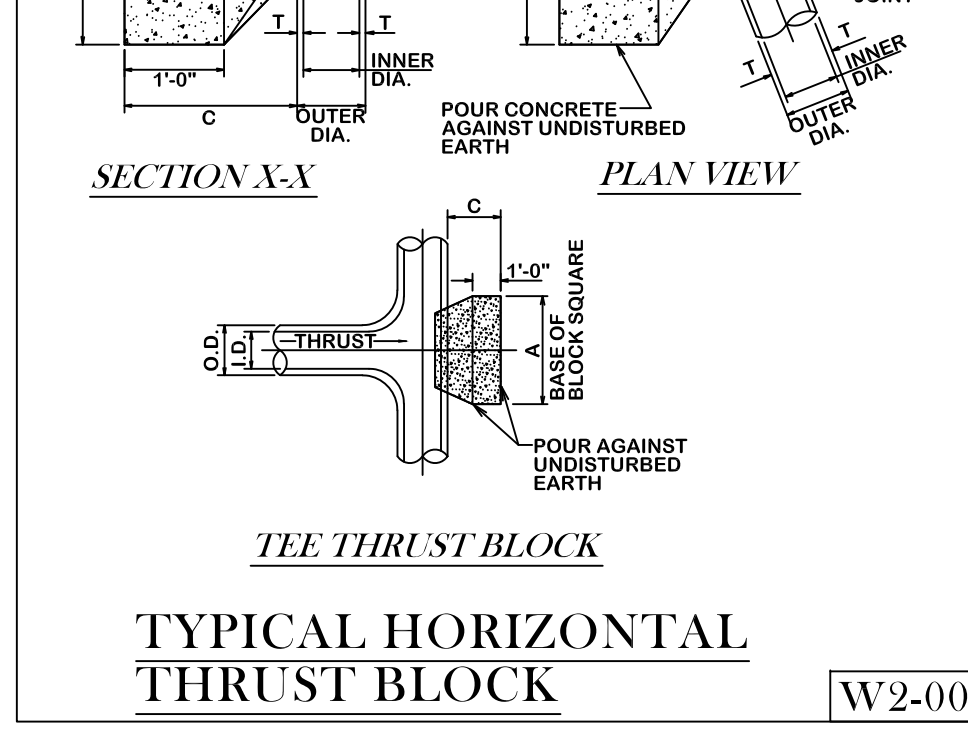
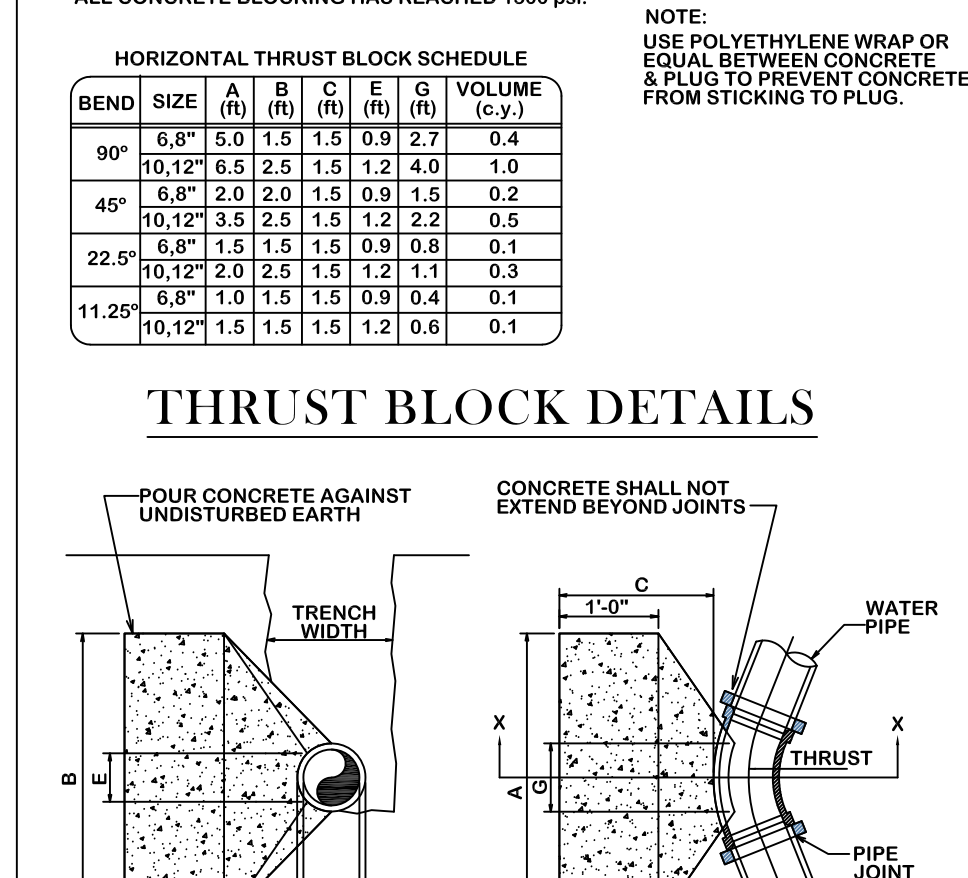
FIGURE:
S3
SHEET 3 OF 3

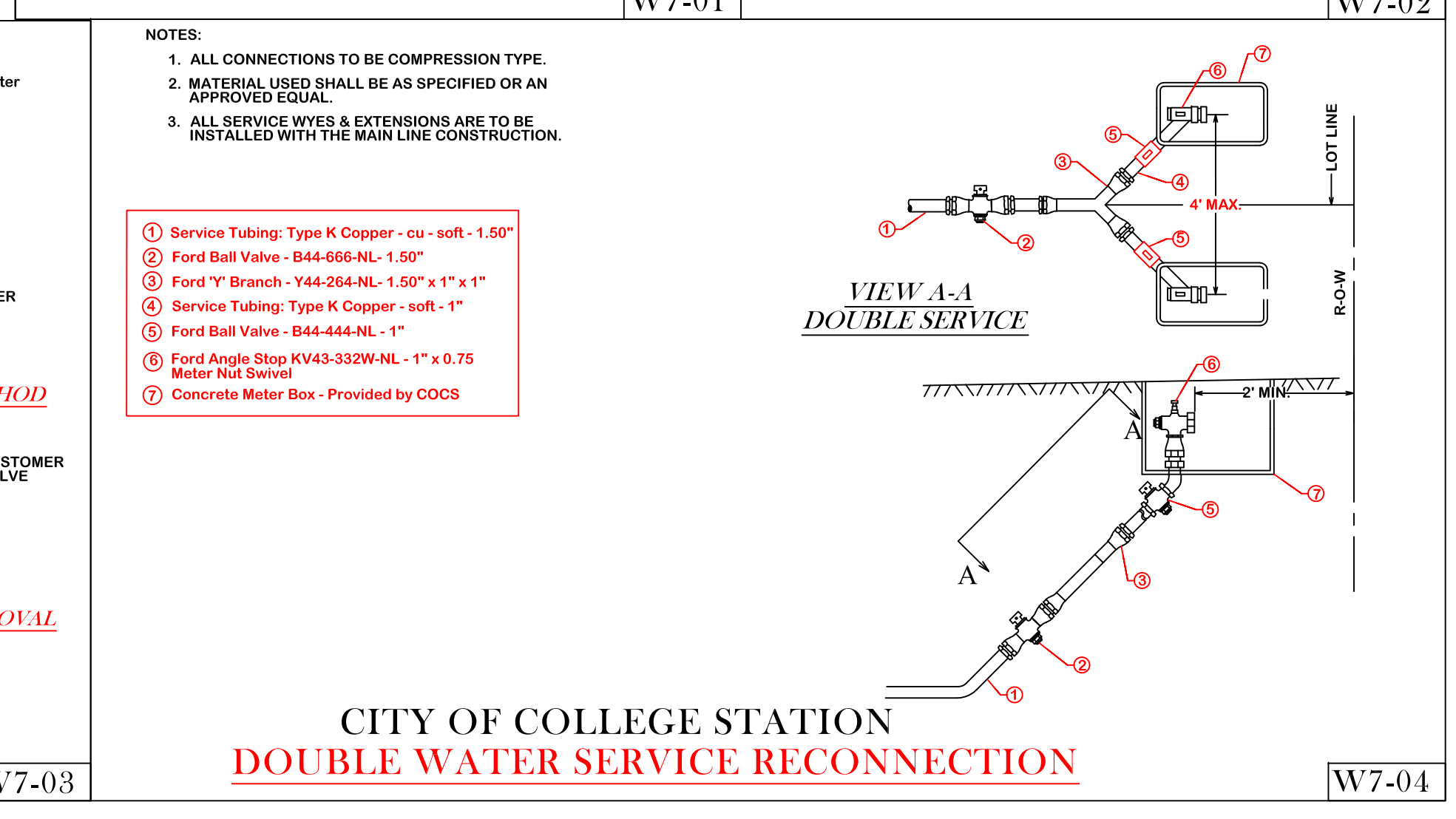
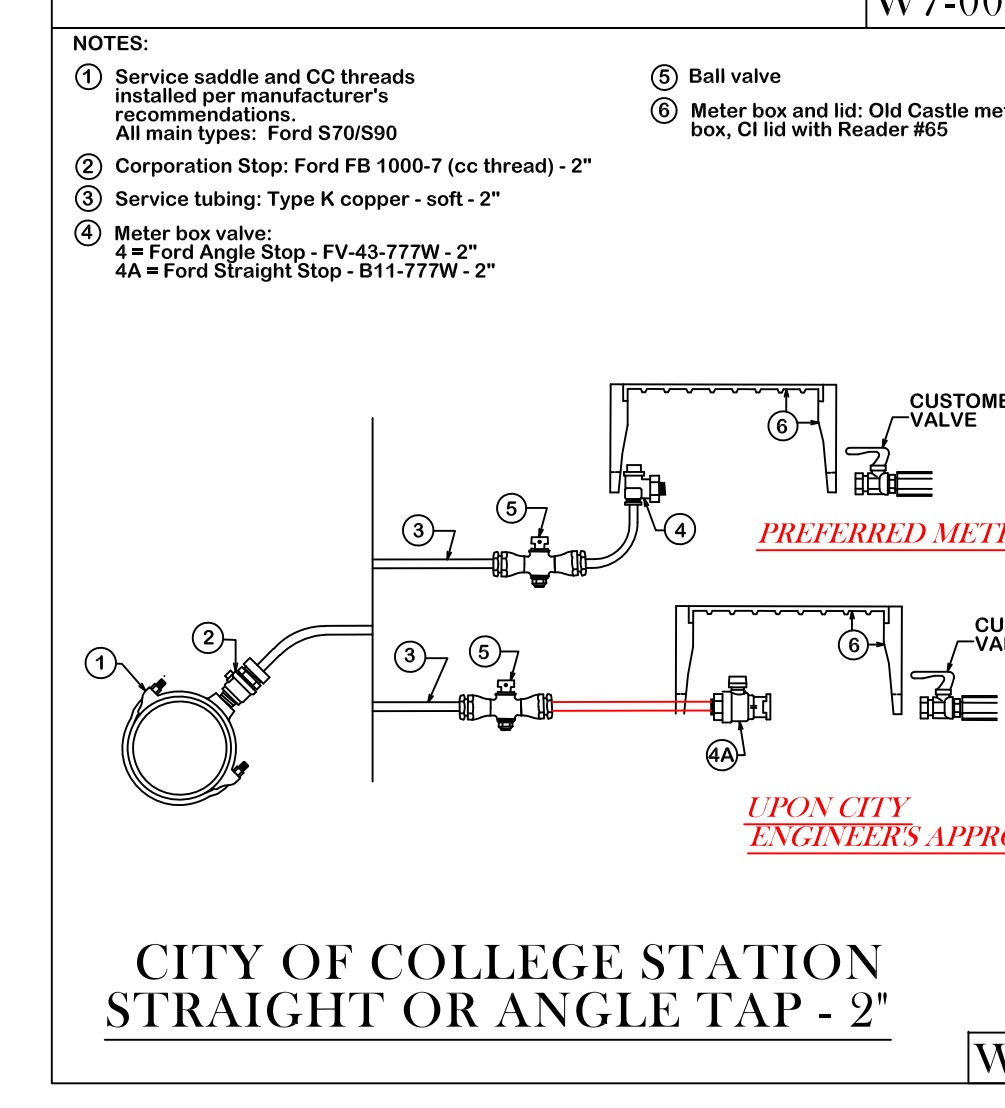
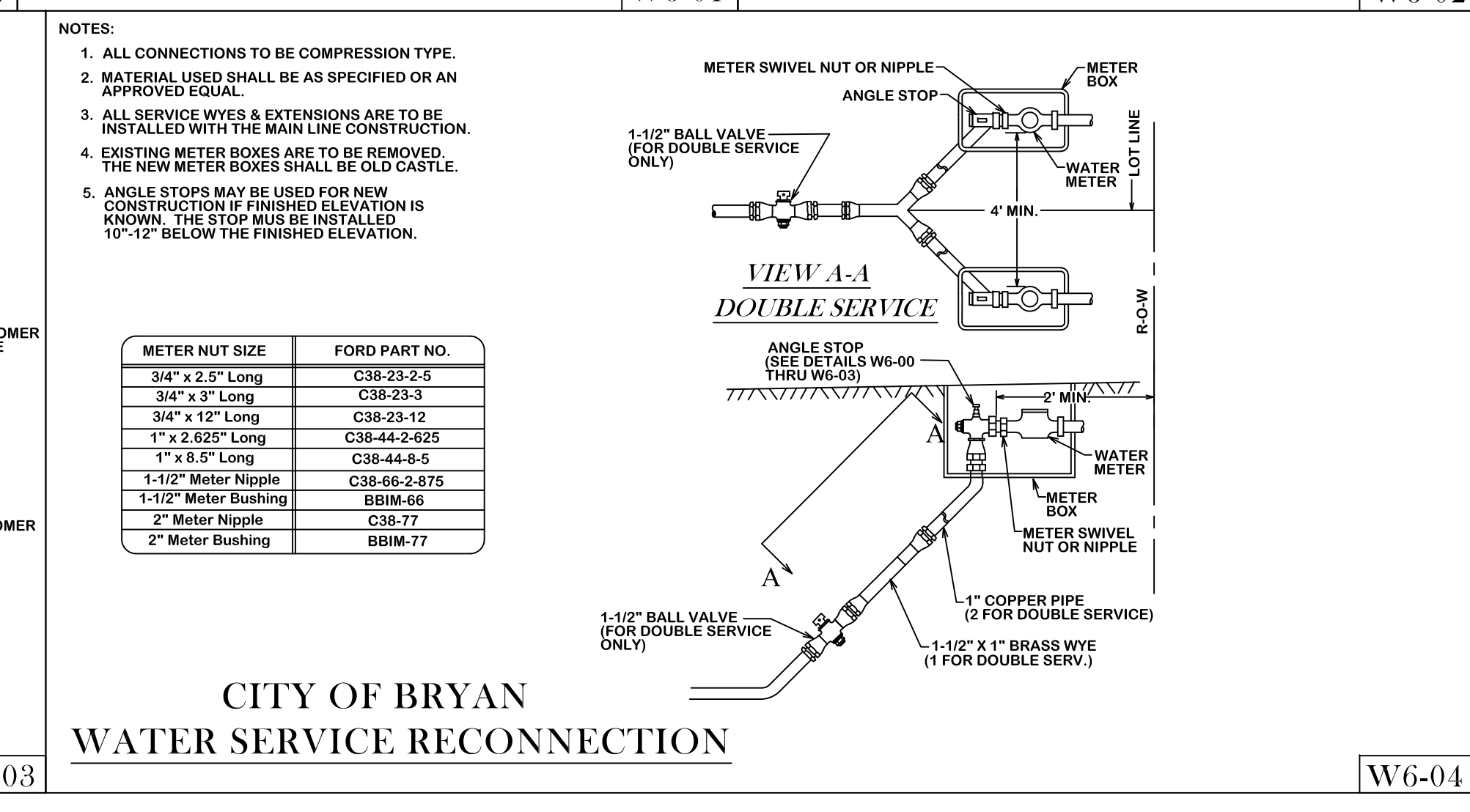
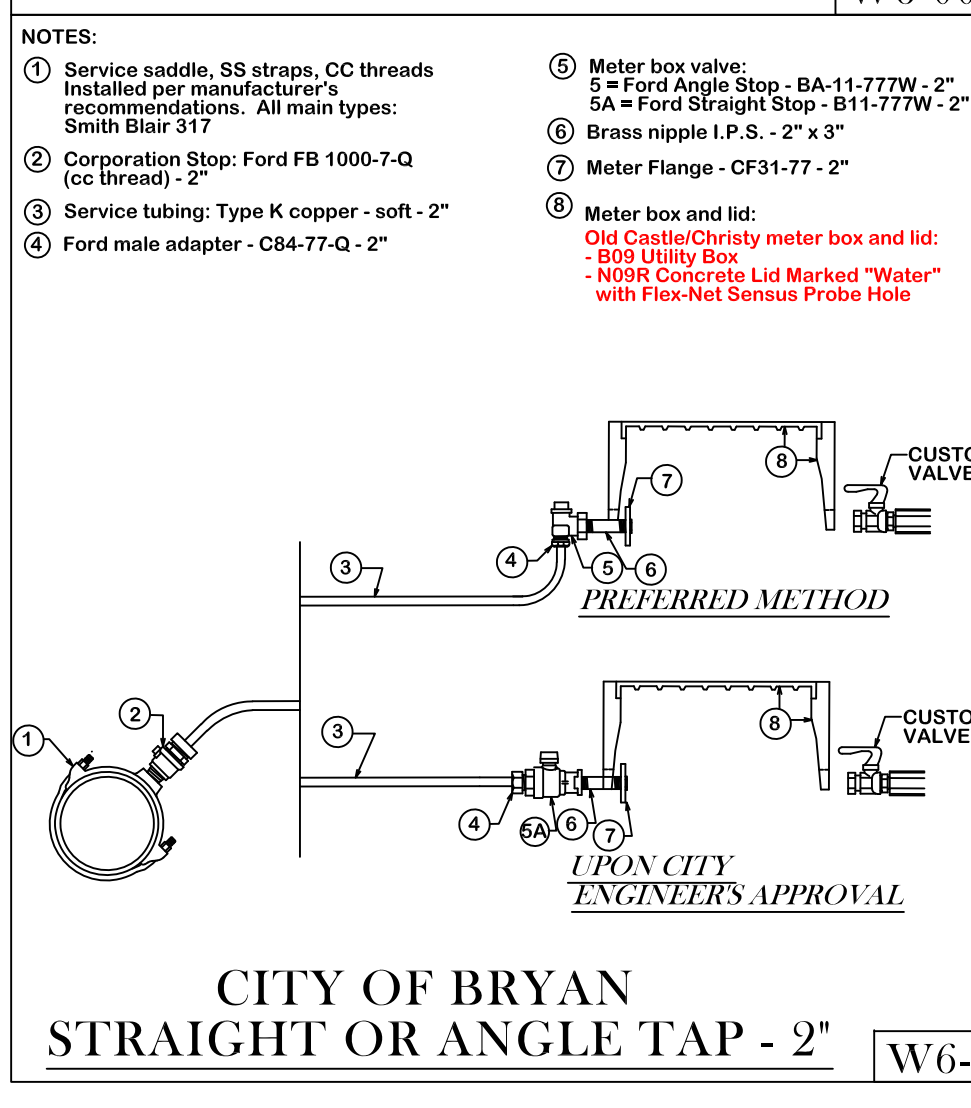
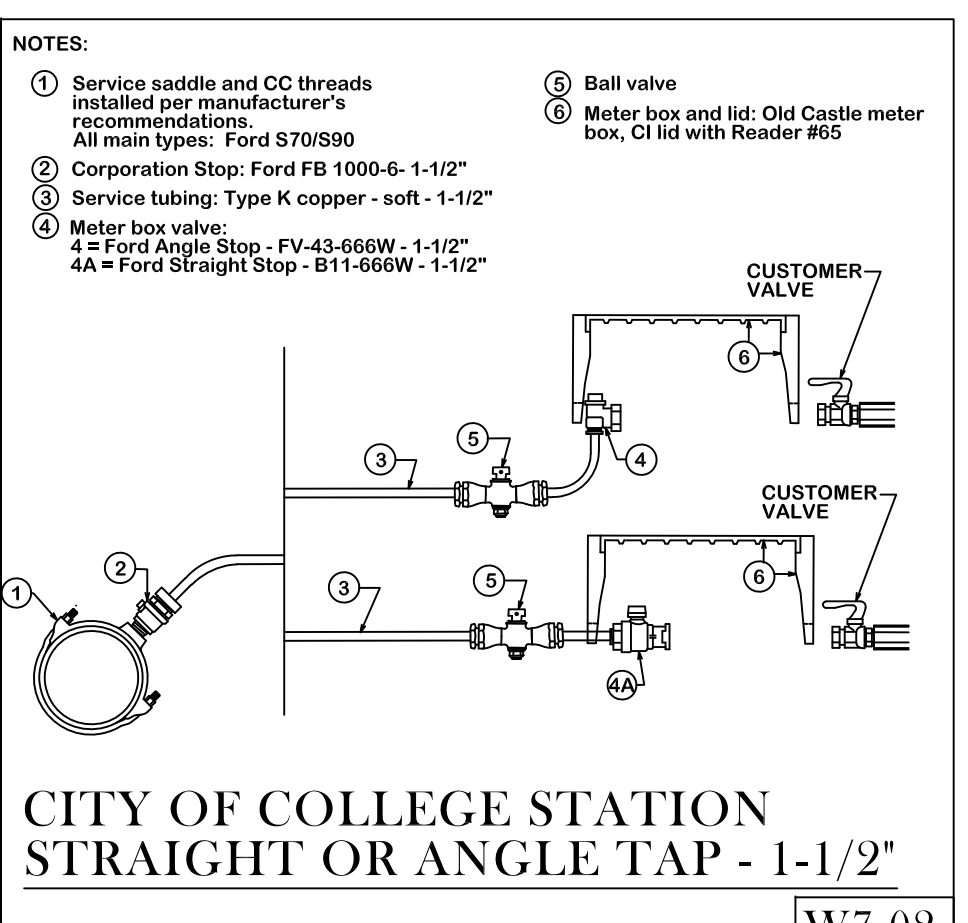
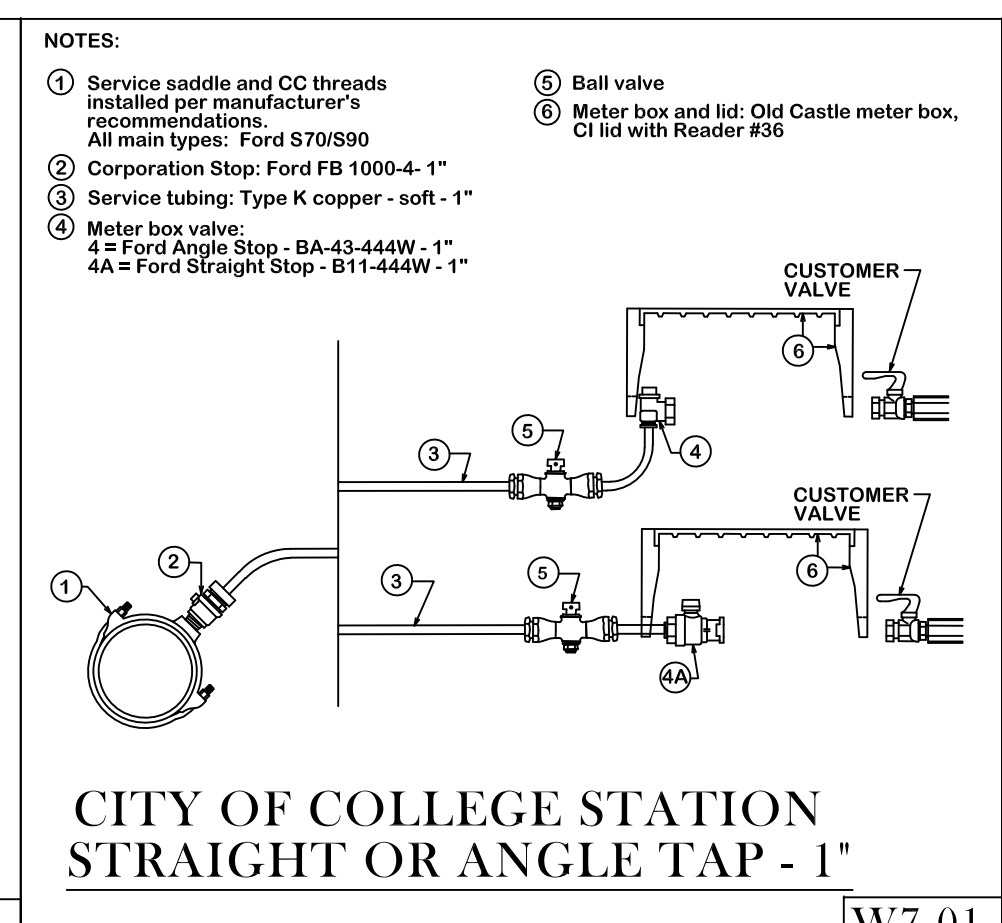
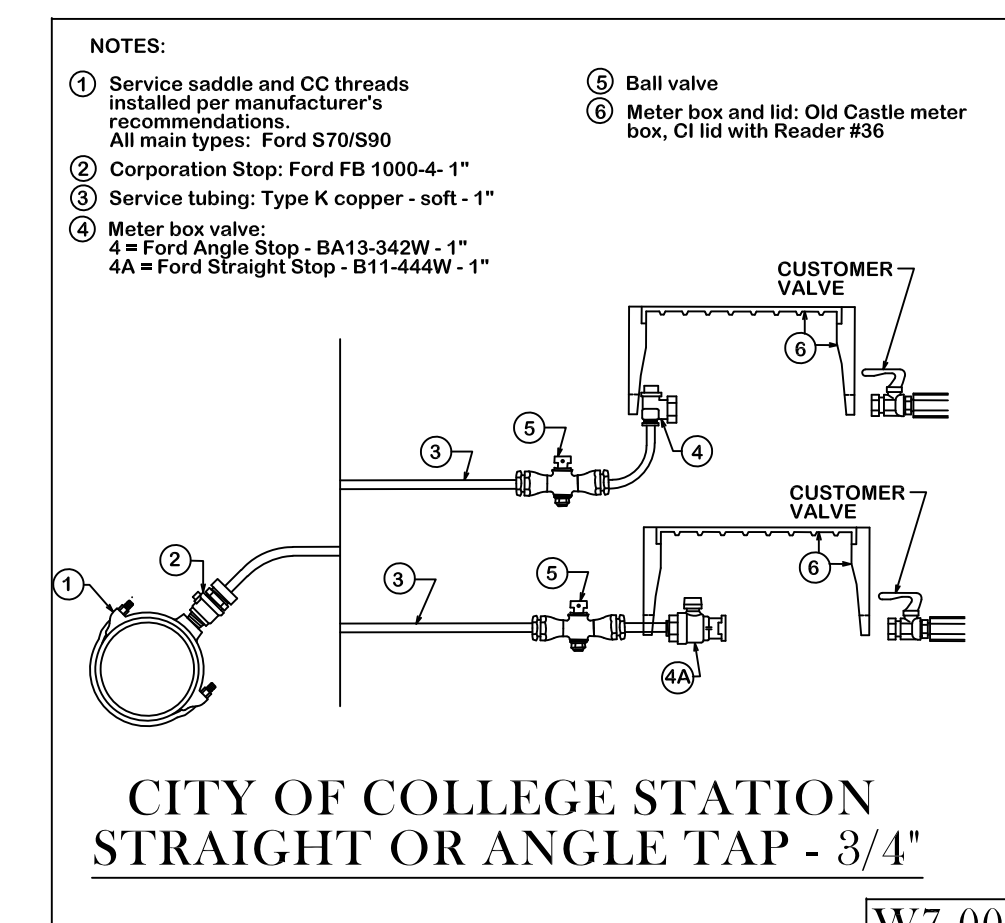
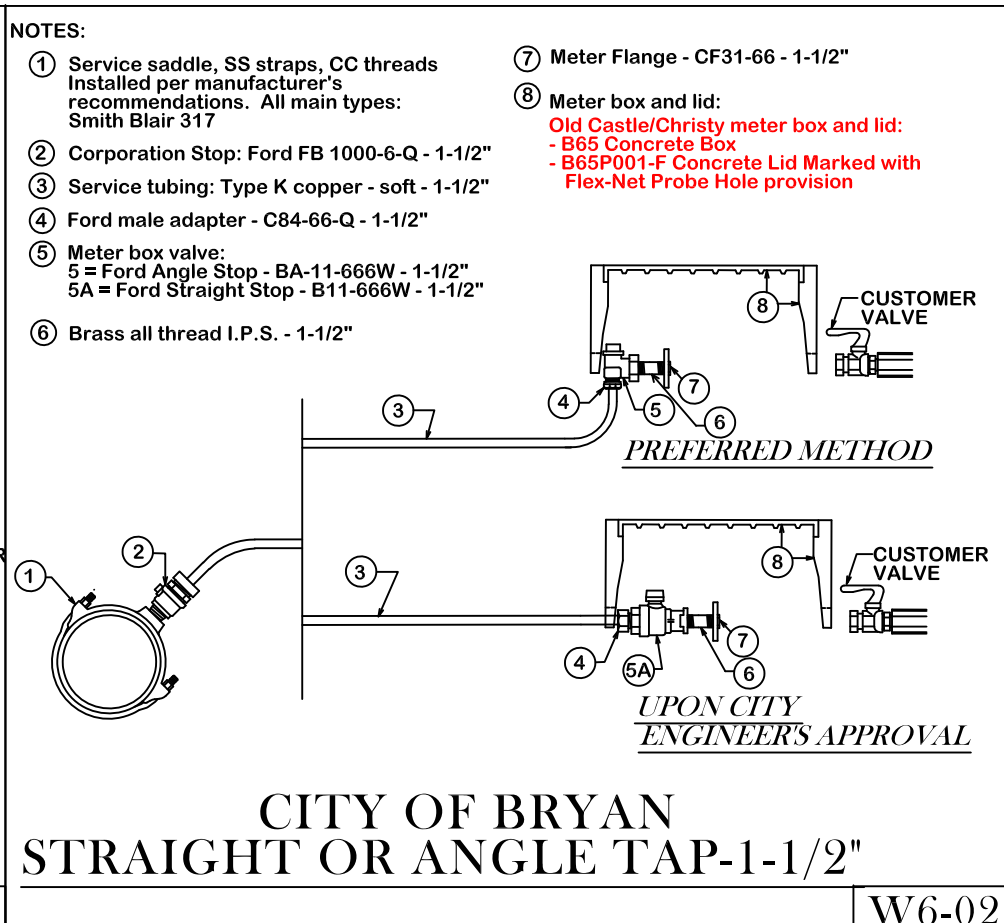
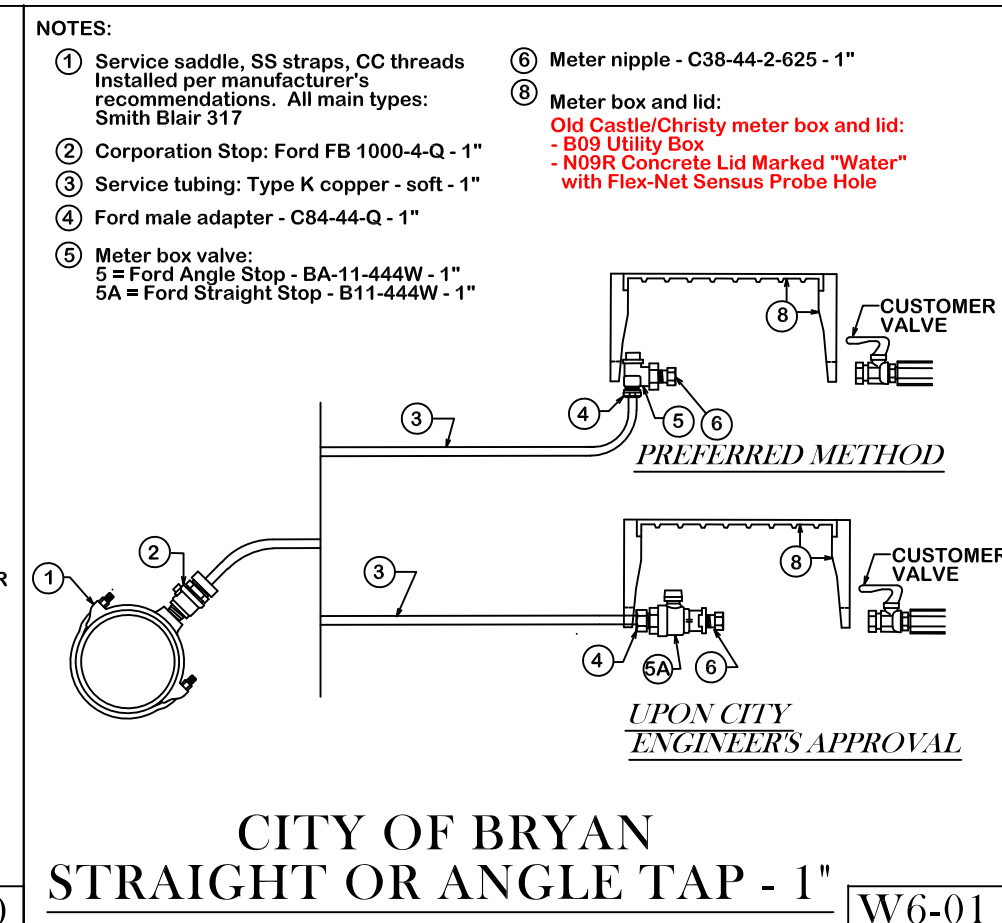
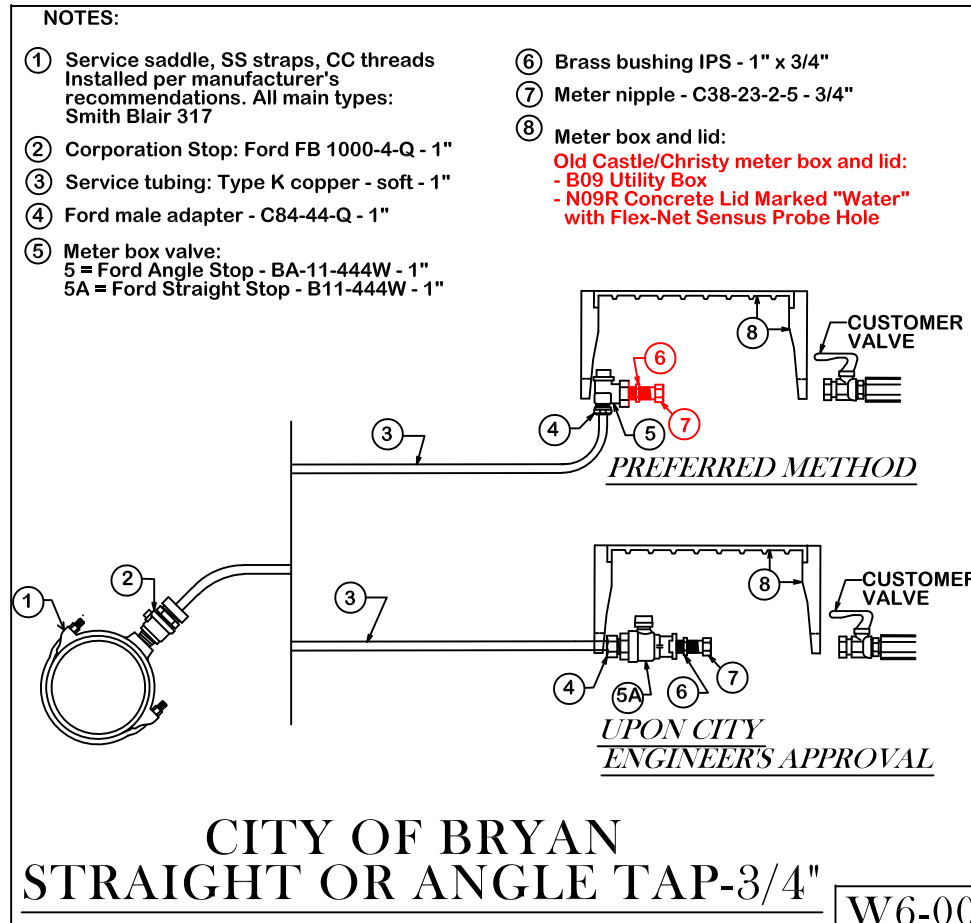
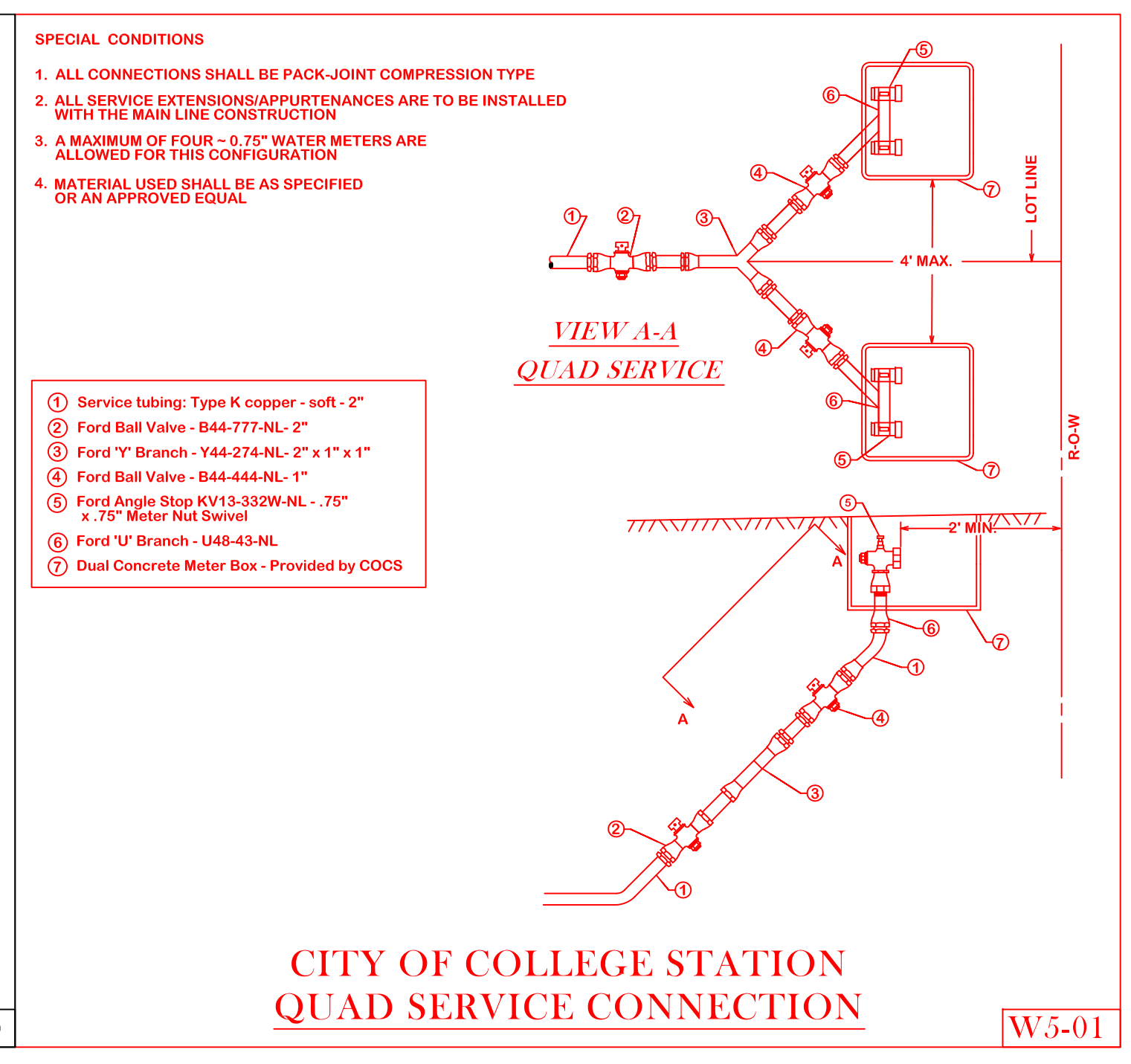
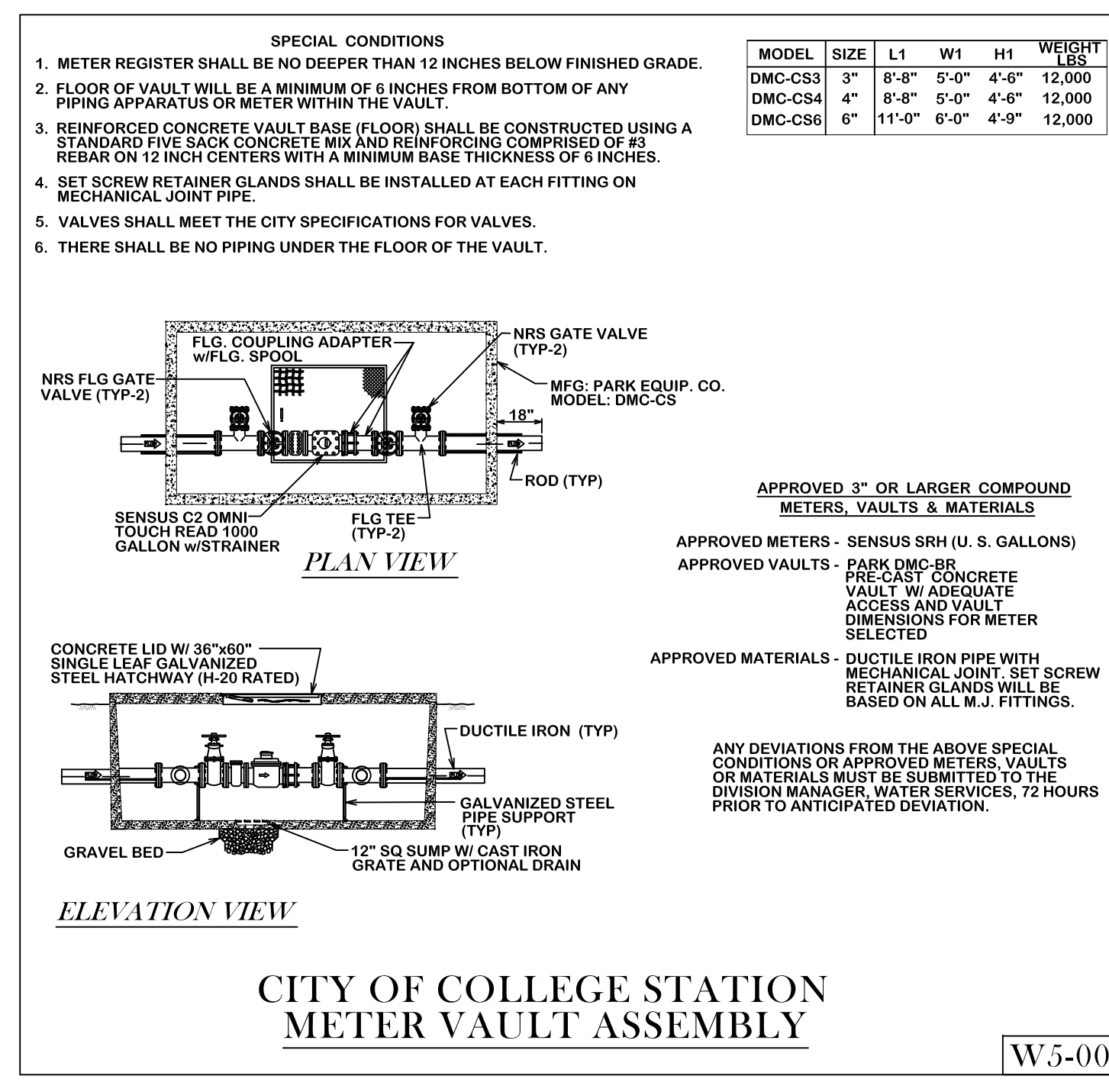


THRUST BLOCK NOTES:

- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR 24\"/>

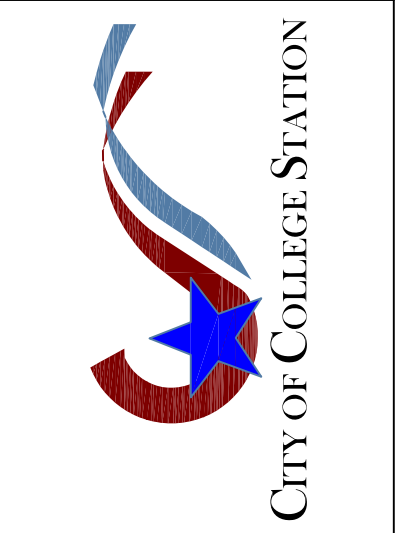
BEND	ID (IN)			A (IN)			VOLUME (cu. ft.)			
	1.5	2.0	2.5	1.5	2.0	2.5	1.5	2.0	2.5	
90°	6.8	5.0	1.5	1.5	0.9	2.7	0.4	10.12	9.5	2.5
45°	6.8	2.0	2.0	1.5	0.9	1.5	0.2	10.12	3.5	2.5
22.5°	6.8	1.5	1.5	1.5	0.9	0.8	0.1	10.12	2.0	2.5
11.25°	6.8	1.0	1.5	1.5	0.9	0.4	0.1	10.12	1.5	1.5



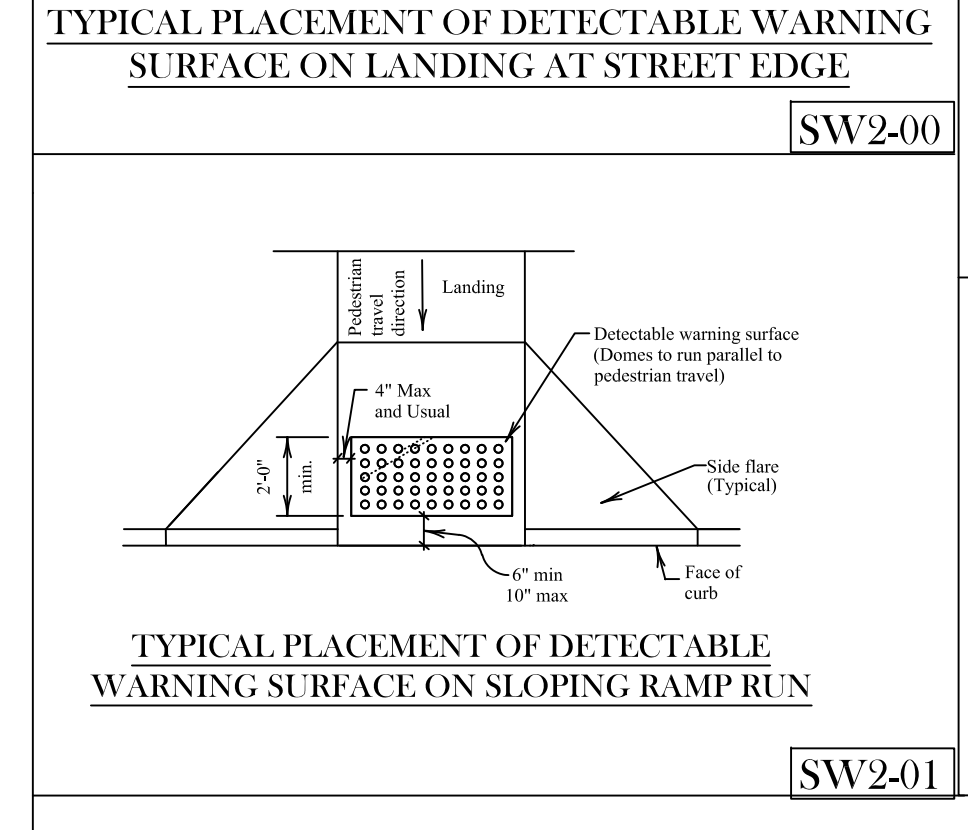
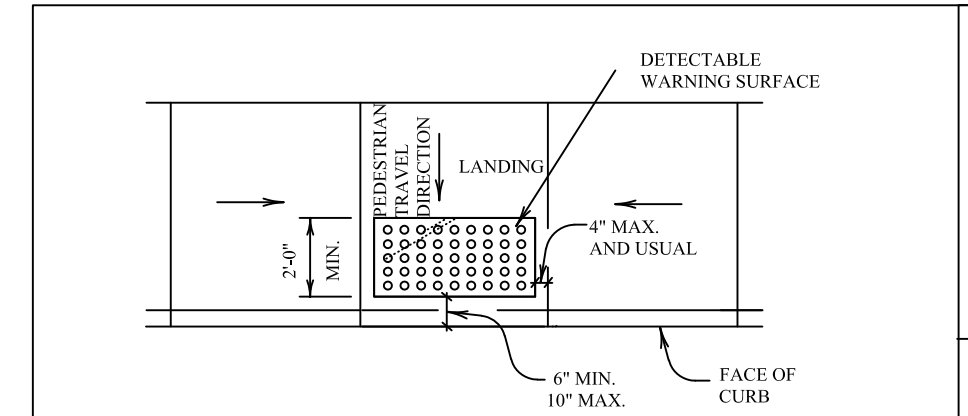
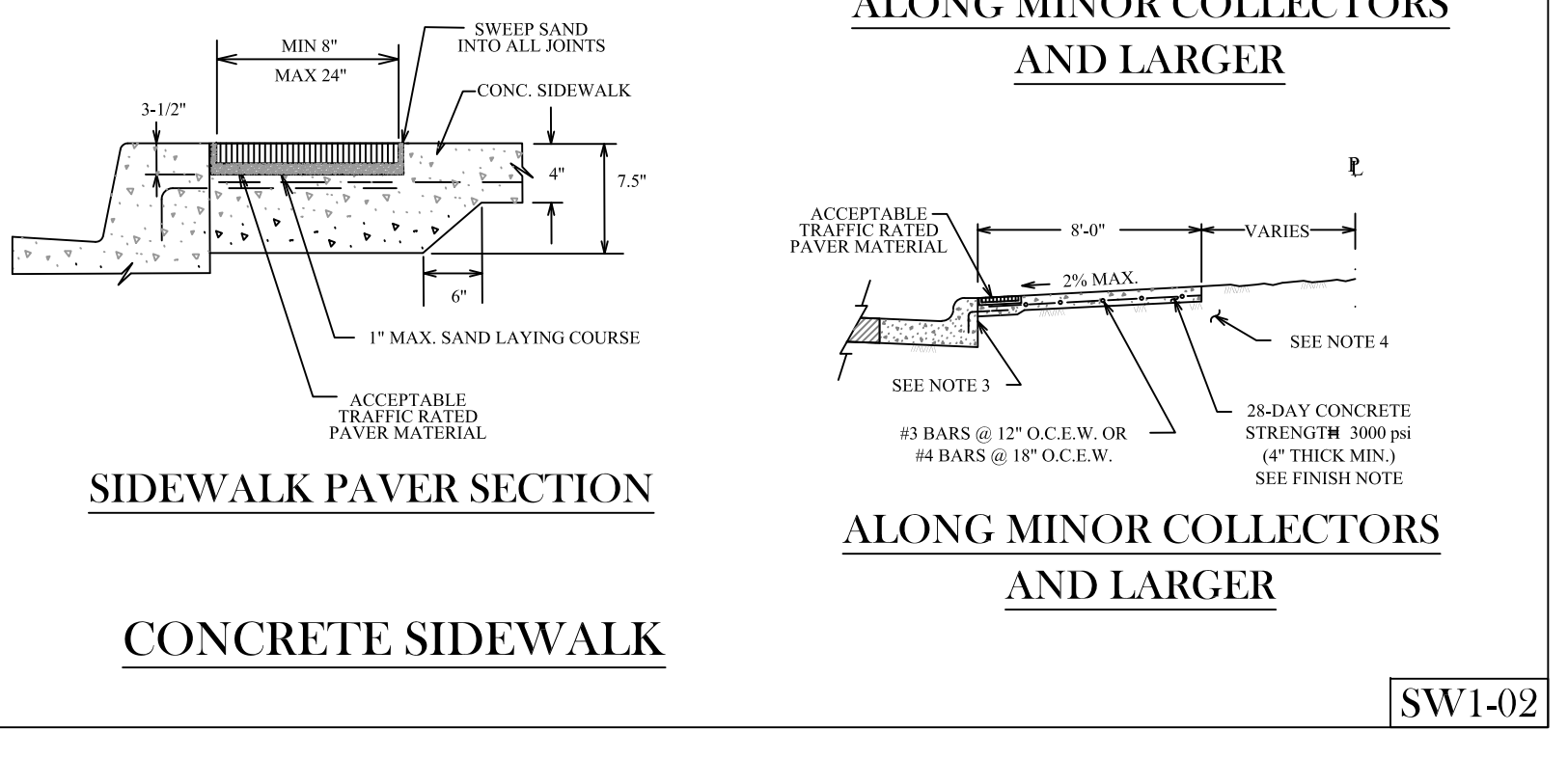
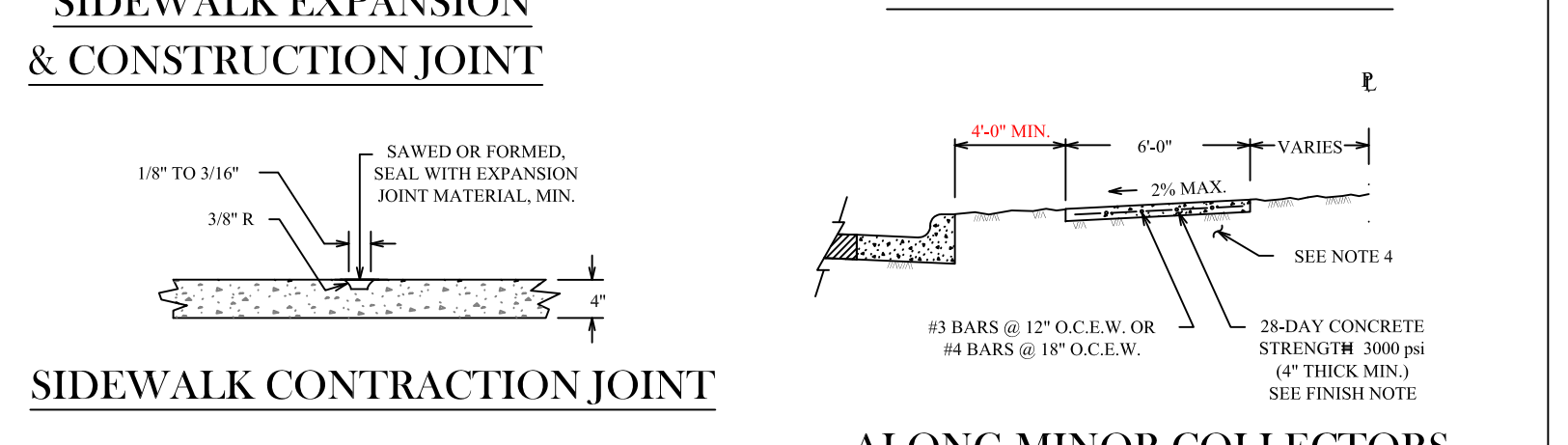
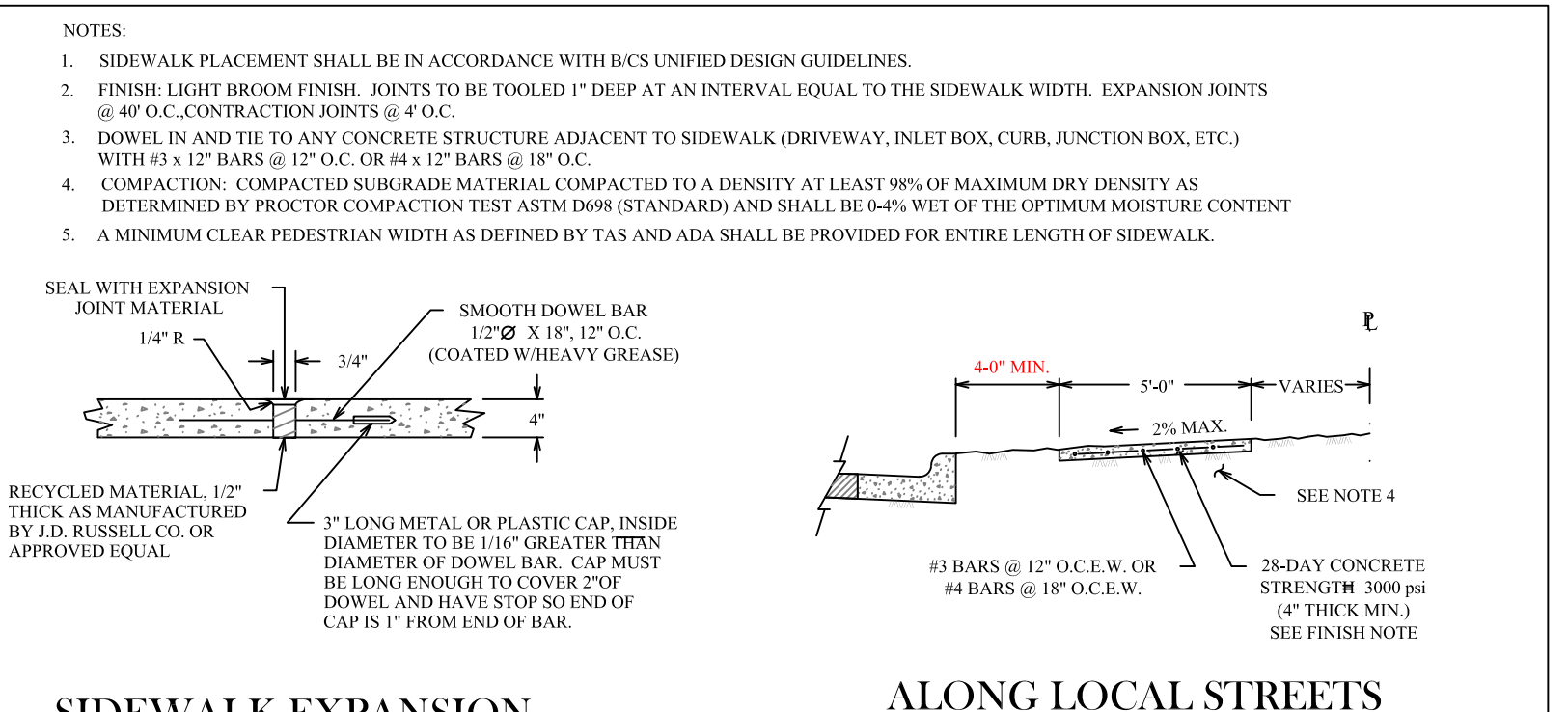
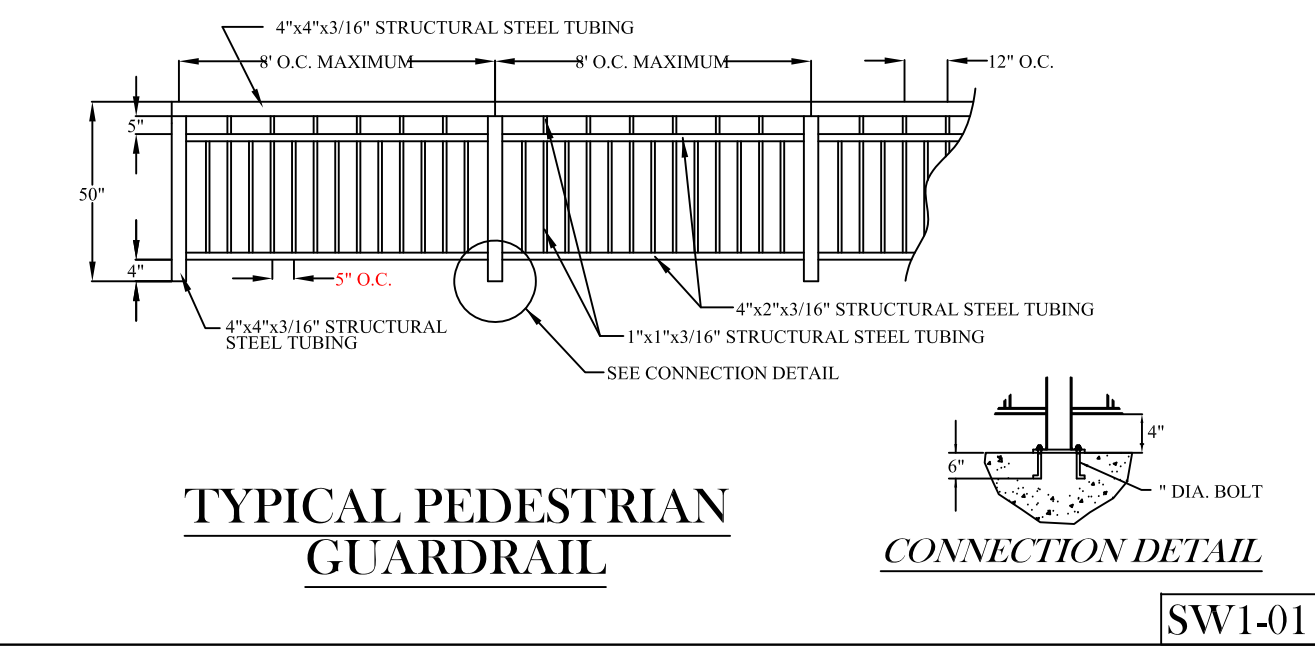
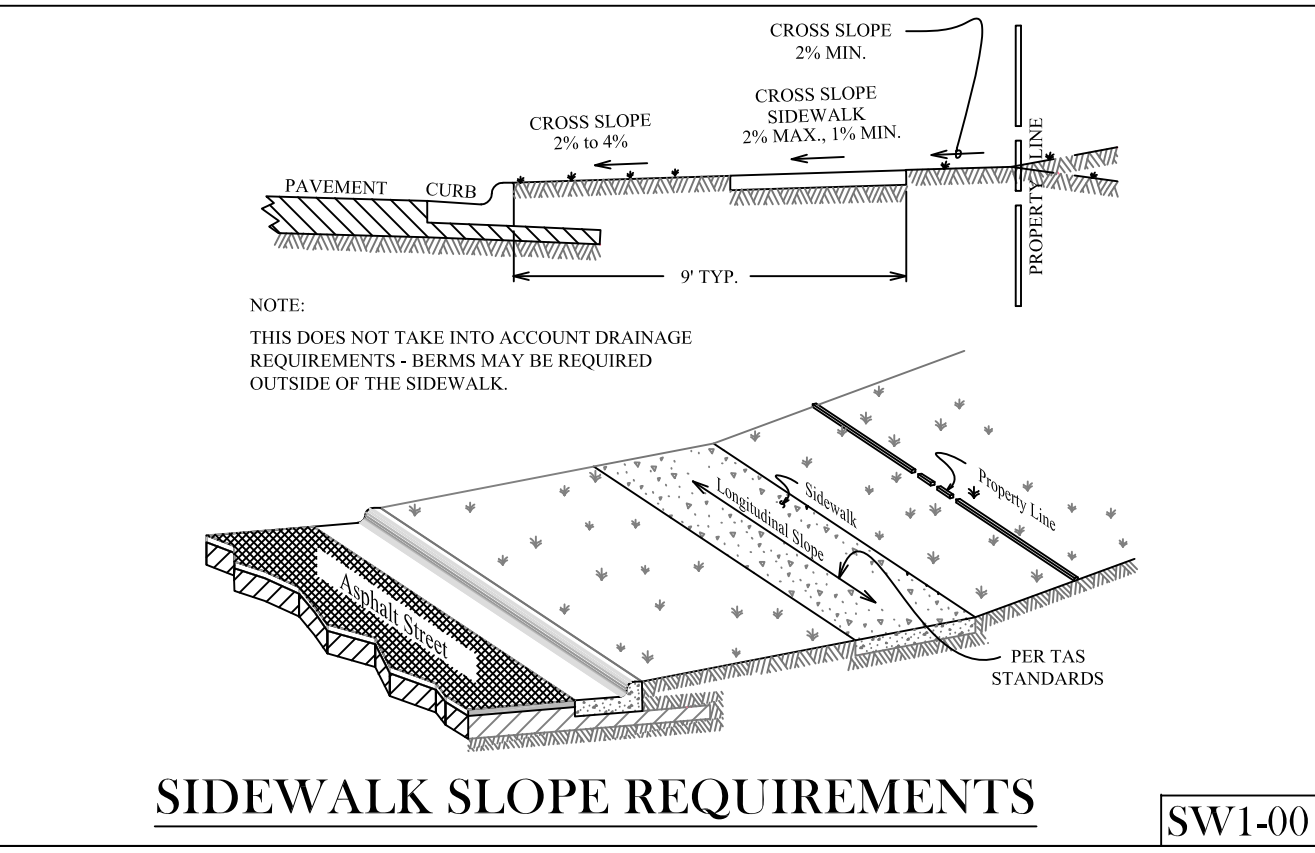


REVISIONS:									
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BRYAN - COLLEGE STATION STANDARD SIDEWALK DETAILS



DRAWN BY: B.I.
 DATE: 12/2020
 SCALE: N.T.S.
 APPROVED: W.P.K.
 FIGURE:
SW1
 SHEET 1 OF 1



DETECTABLE WARNINGS GENERAL NOTES

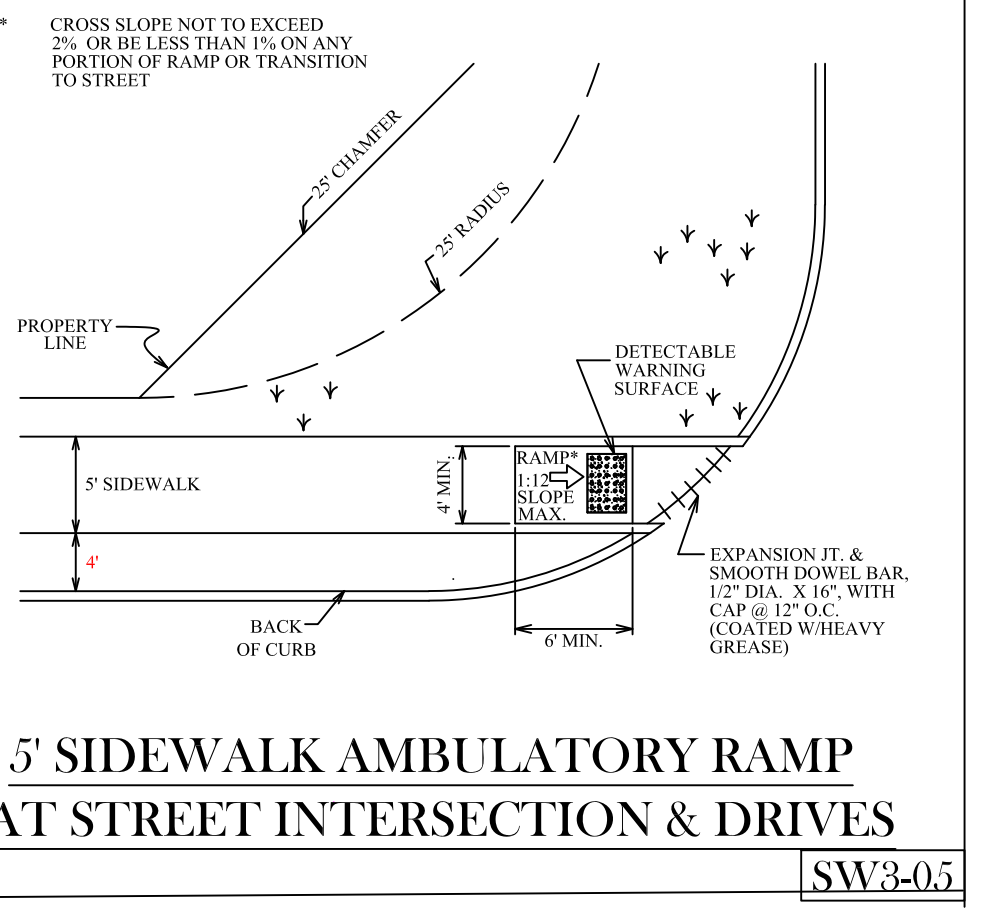
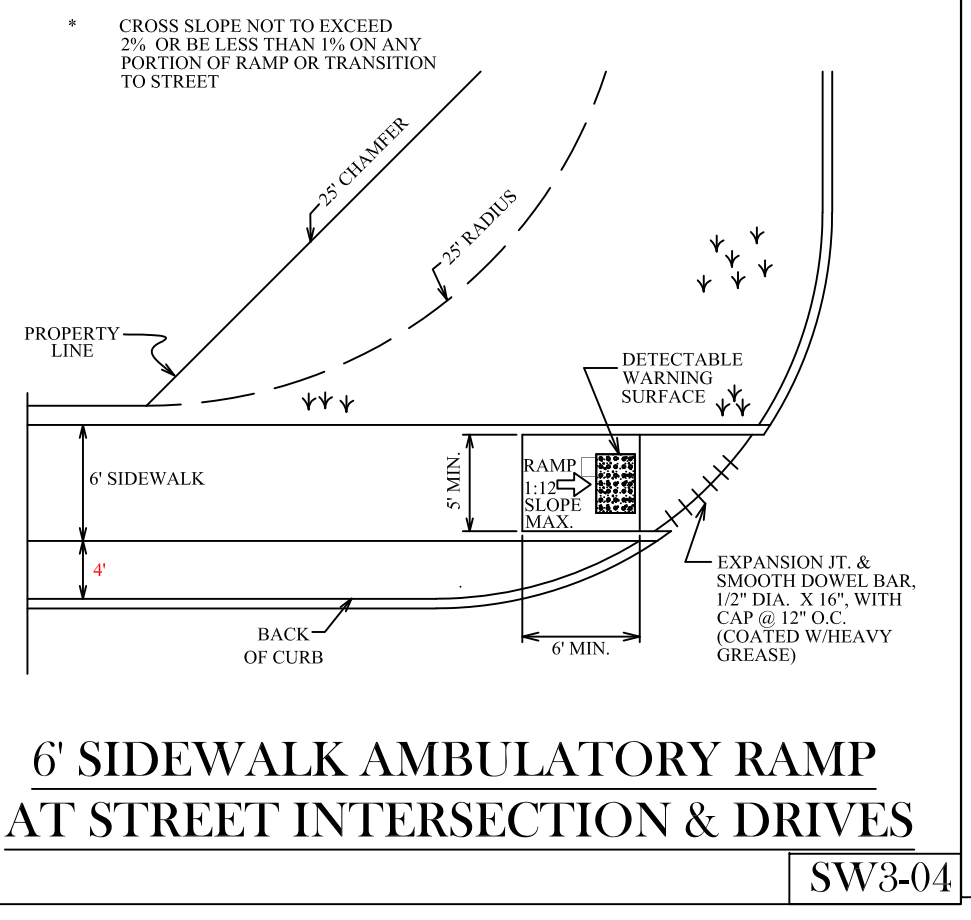
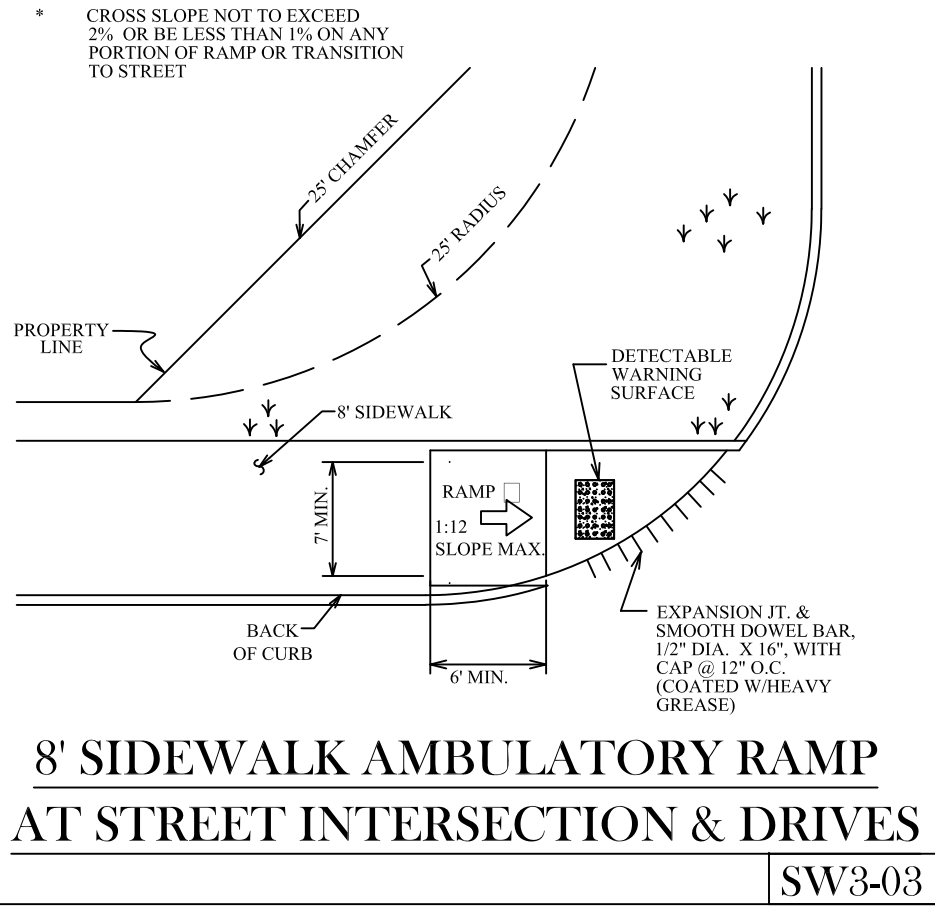
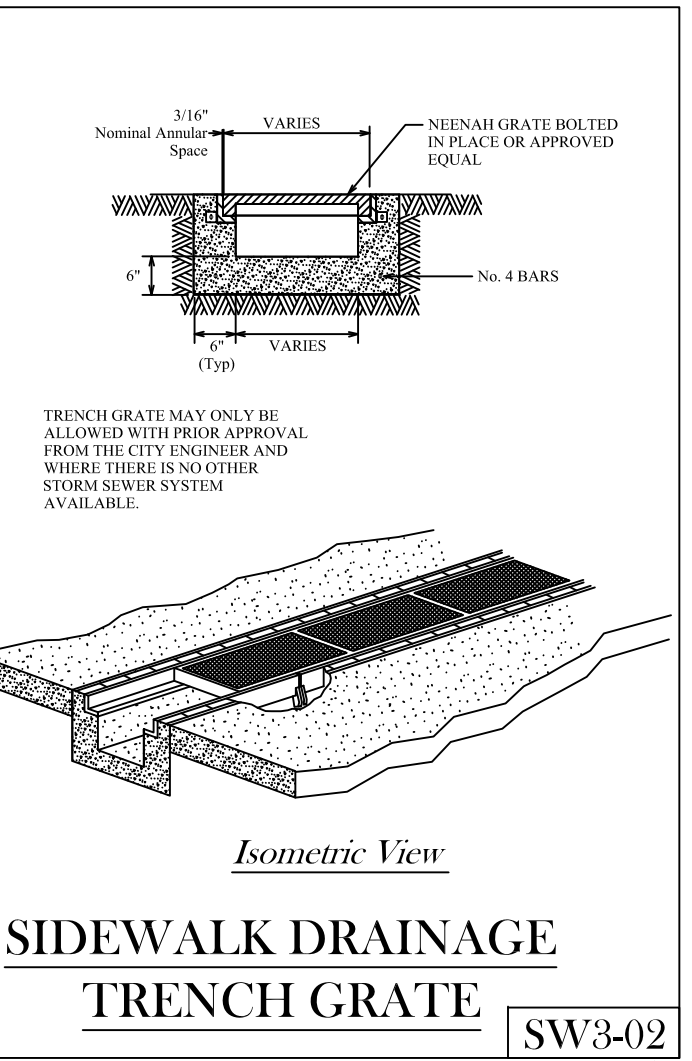
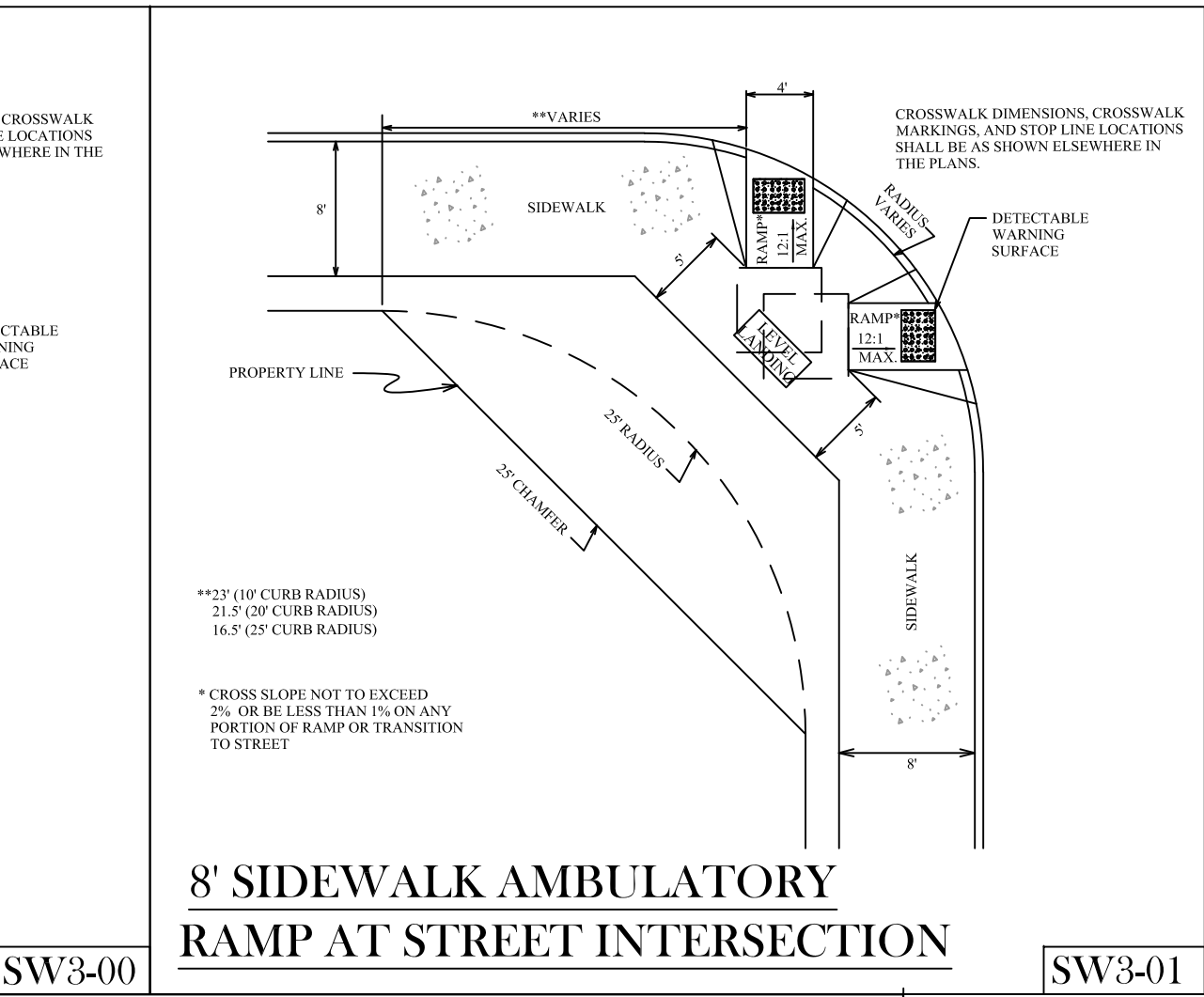
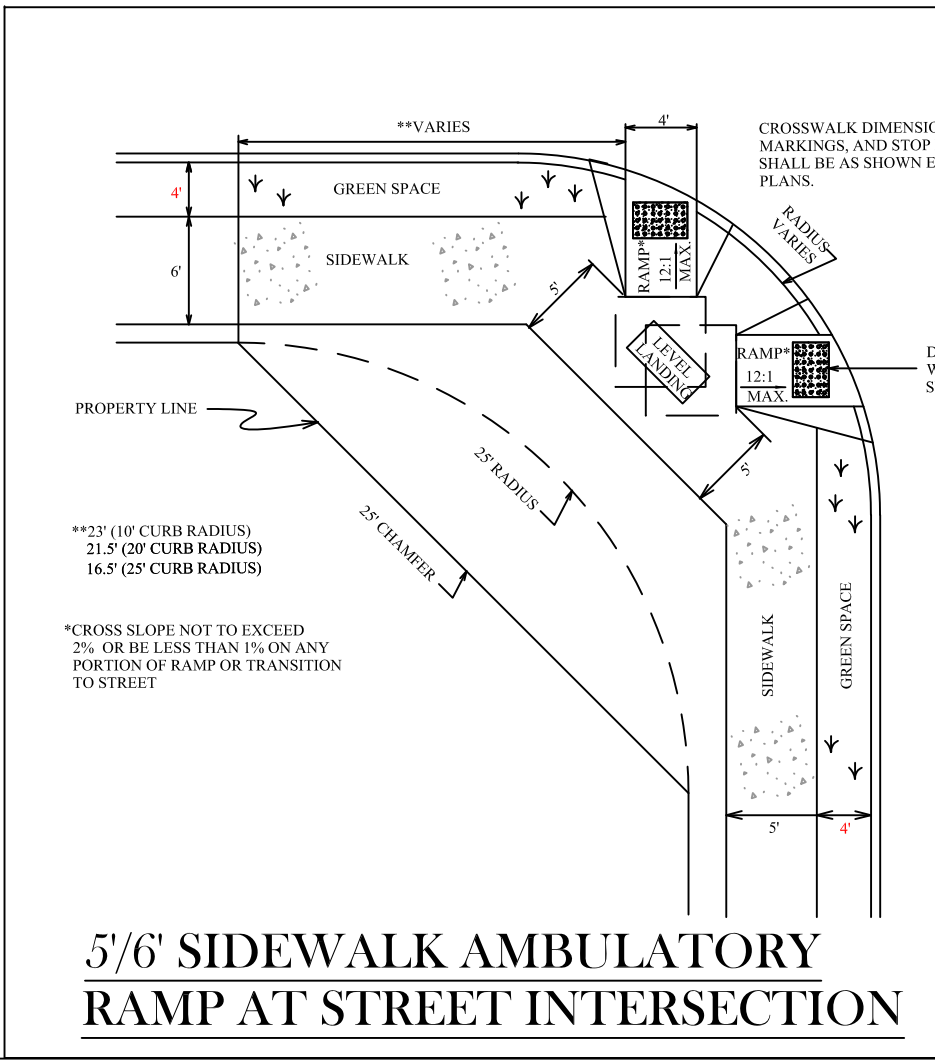
- CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJACENT SURFACES, INCLUDING SIDE FLARES. FINISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
- DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
- ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
- SHADED AREAS ON SHEETS 3 AND 4 INDICATE THE APPROXIMATE LOCATION FOR THE DETECTABLE WARNING SURFACE FOR EACH CURB RAMP TYPE.
- DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 2' IN WIDTH 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.
- 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 MAY BE CURVED ALONG THE CORNER RADII.
- ACCEPTABLE PAVEMENT MATERIAL SHALL BE CLAY, VITRIFIED PUCKER COMPOSITE, PRECAST POLYMER CONCRETE, AND CONCRETE.

CROSSWALKS GENERAL NOTES

- CROSSWALK MARKINGS ARE IMPORTANT TRAFFIC CONTROL DEVICES AT CONTROLLED INTERSECTIONS. THESE DEVICES IDENTIFY THE APPROPRIATE LOCATION FOR PEDESTRIANS TO CROSS THE INTERSECTION AS WELL AS INFORMING DRIVERS WHERE PEDESTRIANS MAY BE PRESENT. NOT ALL LOCATIONS NEED THE CROSSWALKS MARKED, HOWEVER, TYPICALLY COLLECTOR AND ARTERIAL STREETS DO. AS STATED IN THE TMDOT, AN ENGINEERING STUDY SHOULD BE PERFORMED BEFORE CROSSWALKS ARE INSTALLED AT LOCATIONS OTHER THAN CONTROLLED INTERSECTIONS.
- THE CITY OF BRYAN'S PREFERENCE FOR MARKING CROSSWALKS IS THE LONGITUDINAL OR "LADDER" STYLE. THE CITY OF COLLEGE STATION'S PREFERENCE IS THE TYPICAL "TRANSVERSE" STYLE; HOWEVER, IN THE NORTHEAST AREA, ADJACENT TO SCHOOL OR SCHOOL ZONES, AND OTHER HIGH PEDESTRIAN CROSSINGS, THE LONGITUDINAL OR "LADDER" STYLE IS PREFERRED. DEVIATION FROM THESE PREFERENCES WILL BE ALLOWED ONLY WITH THE APPROVAL OF THE CITY ENGINEER.
- THE LONGITUDINAL "LADDER" STYLE MARKING SHALL BE 24" WIDE AND 8 FEET IN LENGTH SPACED 48 INCHES APART, CONSIST OF 1/2 INCH WIDE, WHITE LONGITUDINAL LINES SPACED 24 INCHES APART LONGITUDINALLY. THESE MARKINGS SHALL EXTEND 8 FEET. THE TRANSVERSE MARKINGS SHALL CONSIST OF TWO 12-INCH WIDE LINES SEPARATED BY 4 FEET OF UNMARKED PAVEMENT. ALL CROSSWALK PAVEMENT MARKINGS SHALL ALWAYS MEET TDDOT'S SPECIFICATION FOR TYPICAL MARKINGS UNLESS OTHERWISE BE THERMOPLASTIC, UNLESS A DIFFERENT MATERIAL IS APPROVED BY THE CITY ENGINEER.
- ADDITIONAL INFORMATION ABOUT CROSSWALK MARKINGS CAN BE FOUND IN THE TMDOT.
- CROSSWALKS WITH BRICK PAVERS, STAMPED ASPHALT, STAMPED CONCRETE, ETC., SHALL ALSO REQUIRE RETRO-REFLECTIVE, THERMOPLASTIC TRANSVERSE STRIPPING.

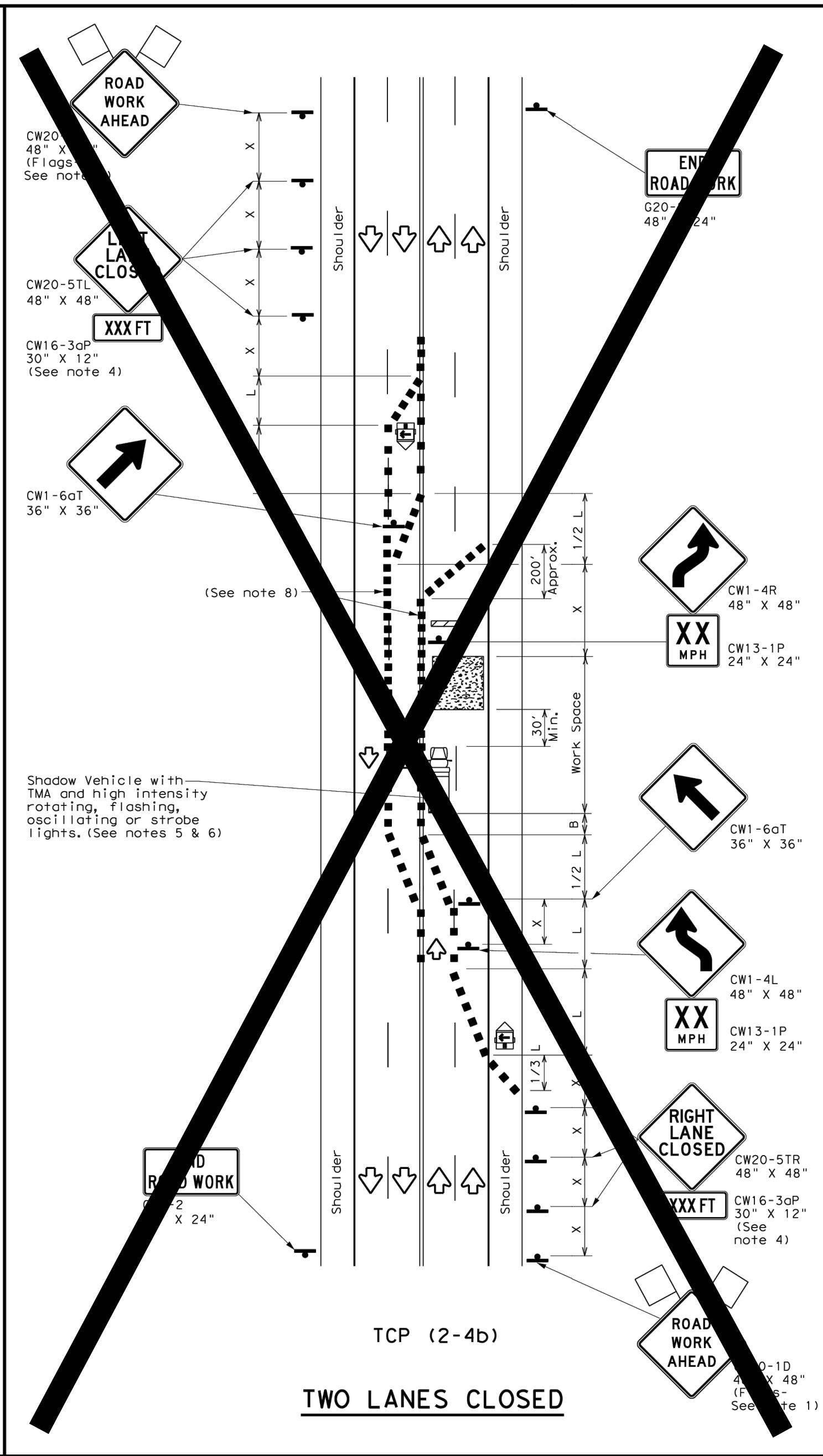
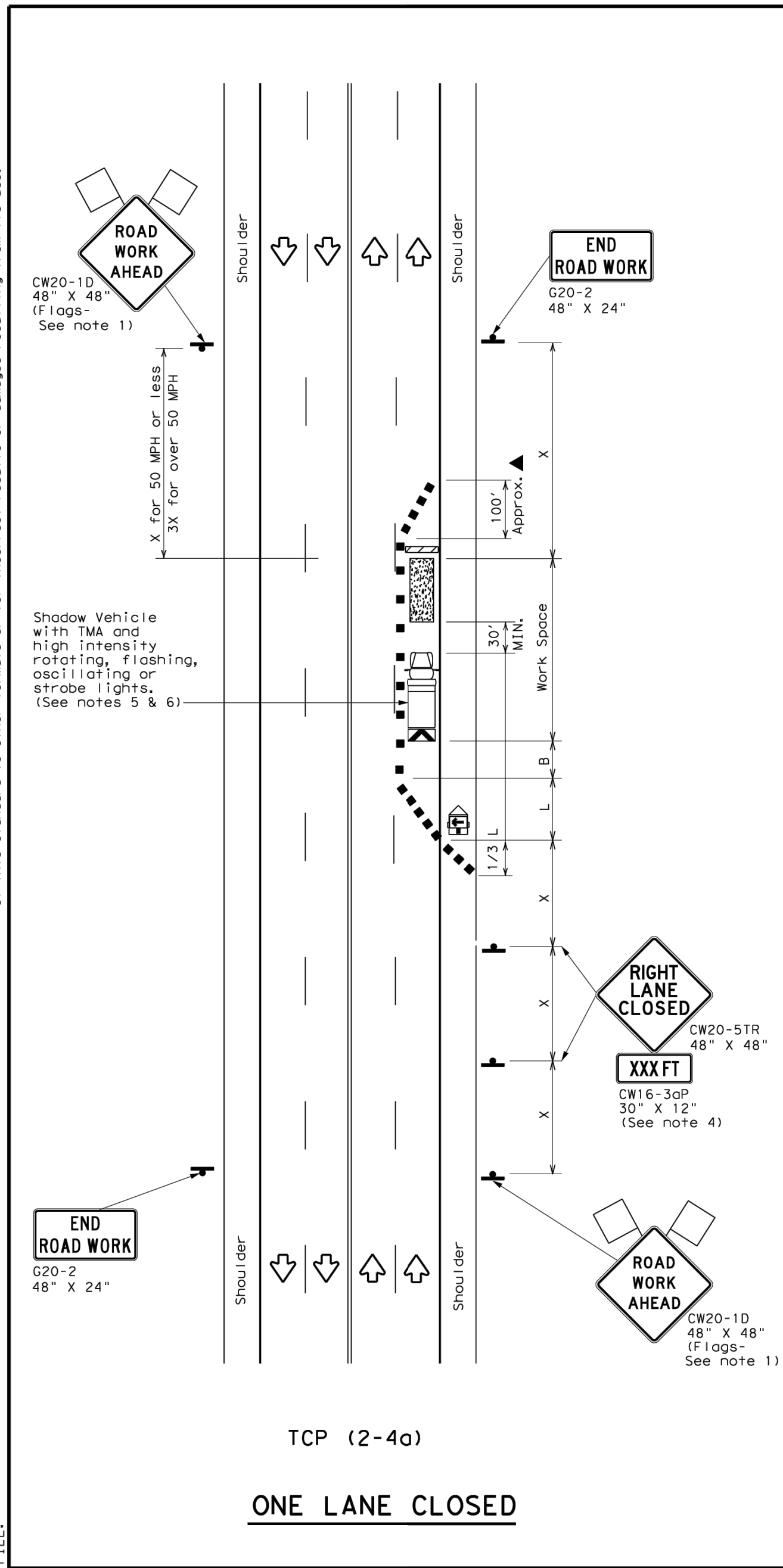
PEDESTRIAN FACILITIES GENERAL NOTES

- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL BE USED PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
- LANDINGS SHALL BE A 5' x 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
- MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' x 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICLE TRAVEL PATH.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP IS 2%.
- CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED. OTHERWISE, PROVIDE FLARED SIDES.
- 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 46.06.
- TO SERVE AS A PEDESTRIAN REFUGE AREA, THE MEDIAN SHOULD BE A MINIMUM OF 3' WIDE. MEDIANS SHOULD BE DESIGNED TO PROVIDE ACCESSIBLE PASSAGE OVER OR THROUGH THEM.
- CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, CURB RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
- EXISTING FEATURES THAT COMPLY WITH TAS MAY REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS.
- HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. PROVIDE CURB RAMPS WHEREVER ON ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
- SEPARATE CURB RAMP AND LANDINGS FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH PREMOLD OR BOARD JOINT OF 3/4" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET.
- FLARE SLOPE SHALL NOT EXCEED 10% MEASURED ALONG CURB LINE.



DISCLAIMER: This drawing is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by the engineer for any purpose whatsoever. The engineer assumes no responsibility for the construction of any work shown hereon or for any damage to property or person resulting from its use.

DATE: _____
 FILE: _____



LEGEND

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed X	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = WS ² /60	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40	L = WS	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50	L = WS	500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60	L = WS	600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70	L = WS	700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
		✓	✓	

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
 - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - The downstream taper is optional. When used, it should be 100 feet minimum length per lane.
 - For short term applications, when post mounted signs are not used, the distance legend may be shown on the sign face rather than on a CW16-3aP supplemental plaque.
 - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
 - Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.
 - If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline to protect the work space from opposing traffic with the arrow board placed in the closed lane near the end of the merging taper.
 - For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter device spacing is intended for the area of conflicting markings, not the entire work zone.

Texas Department of Transportation
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
LANE CLOSURES ON MULTILANE
CONVENTIONAL ROADS

TCP (2-4) - 18

FILE: tcp2-4-18.dgn
 DATE: December 1985
 8-95 3-03
 1-97 2-12
 4-98 2-18

CONTRACT	SECTION	JOB	HIGHWAY
DIST	COUNTY	SHEET NO.	



BRYAN FOOD EXCHANGE
LOTS 16, BLOCK 5
HANUS ADDITION
2009 SH-21 BRYAN, TEXAS

NO.	DATE	REVISIONS

TRAFFIC CONTROL DETAILS

DATE: NOV. 15, 2024
 SCALE:
 SHEET NO.: TCP



JOE'S FOOD MARKET

2009 HWY 21 WEST

BRYAN, TEXAS

