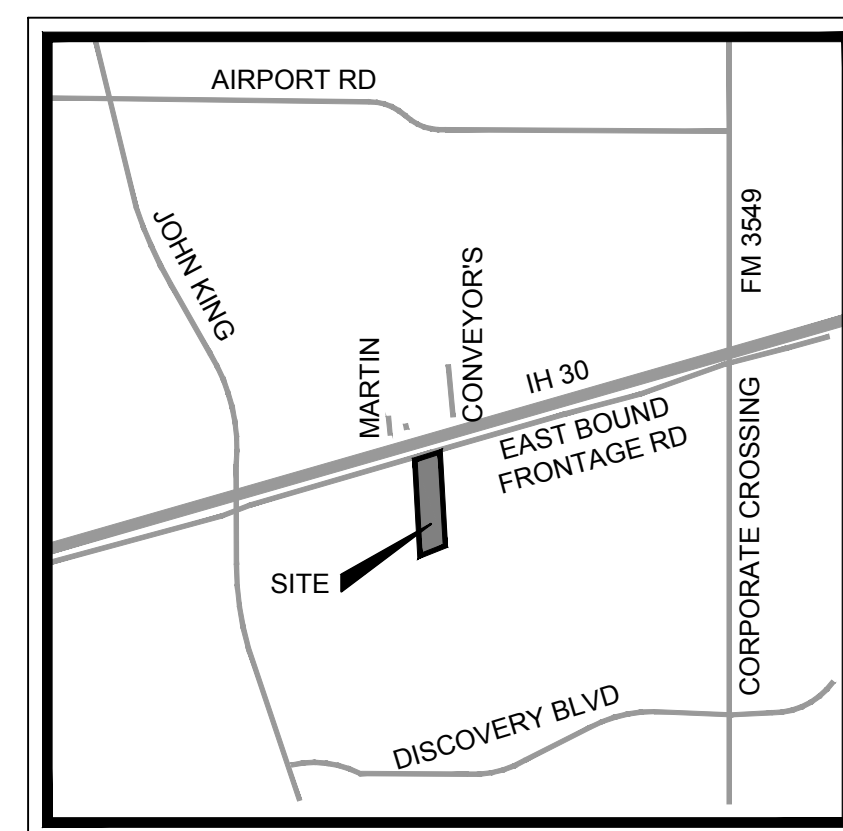


CIVIL PLANS

SERVICE KING ROCKWALL

3.29 ACRES

1780 EAST IH 30 FRONTAGE ROAD,
ROCKWALL, TEXAS 75087



N.T.S.
VICINITY MAP
MAPSCO 17-W

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This drawing has been revised to show those changes during the construction process found by a Detention Pond and As-Built survey by James Anderson (Stamped BY Rudy Rangel, Dated 06/15/2017). This drawing is not guaranteed to be "As Built" but is based on the limited information obtained from the survey, contractor and field visit.

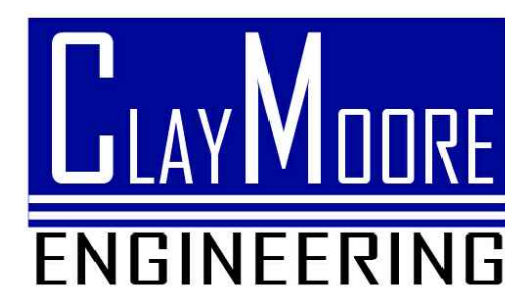
By: *Matt Moore* Date: 11/16/2017



NOVEMBER 2017

| PLAN SUBMITTAL LOG | |
|--------------------|----------------|
| DESCRIPTION | SUBMITTAL DATE |
| CITY SUBMITTAL #1 | 07/8/2016 |
| CITY SUBMITTAL #2 | 08/10/2016 |
| CITY SUBMITTAL #3 | 08/29/2016 |
| CITY SUBMITTAL #4 | 12/13/2016 |
| CITY SUBMITTAL #5 | 7/31/2017 |
| AS-BUILTS | 11/16/2017 |

ENGINEER



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GENERAL NOTES

- 1. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE CITY'S DESIGN STANDARDS. IF NO CITY STANDARD IS APPLICABLE, MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE "NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 3RD EDITION". IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS IN THIS PLAN SET AND CITY STANDARDS, THE CITY STANDARDS WILL BE USED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH ALL MATERIALS AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THIS PROJECT.
3. THE CONTRACTOR SHALL CONTACT ALL FRANCHISE UTILITY COMPANIES TO HAVE THEM LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATION AND/OR EXTENSIONS. SERVICES SHOWN ON THE PLANS, IF ANY, ARE CONCEPTUAL.
4. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, POWER POLES, SIGNS, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS PROJECT.
5. BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE VARIOUS PAY ITEMS FOR INSTALLATION OF PIPE.
6. THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN PROPOSED FACILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES.
7. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY, INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, AND LAWN SPRINKLER AND IRRIGATION SYSTEMS AT NO COST TO THE OWNER. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT (UNLESS OTHERWISE NOTED) AND IS NOT A SEPARATE PAY ITEM.
8. THE CONTRACTOR SHALL REMOVE SURPLUS MATERIAL FROM THE PROJECT AREA. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
11. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER AND CITY OF ROCKWALL ENGINEERING DEPARTMENT. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
12. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS SHALL BE SENT TO THE ARCHITECT, CIVIL ENGINEER, CONTRACTOR, OWNER, AND CITY INSPECTOR DIRECTLY FROM THE TESTING AGENCY.
13. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
14. CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUM PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
15. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
16. ALL HORIZONTAL DIMENSIONS GIVEN ARE TO FACE OF CURB AND TO PIPE CENTERLINES UNLESS OTHERWISE NOTED ON PLANS.
17. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATION AND INSTALLATION OF FRANCHISE UTILITIES NECESSARY FOR ON AND OFF SITE CONSTRUCTION. PAYMENT FOR RELOCATION AND INSTALLATION WILL BE NEGOTIATED ONCE IDENTIFIED.
18. ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER PER CITY CITY STANDARDS.
19. 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.
20. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE CIVIL ENGINEER A COPY OF RECORD DRAWINGS IDENTIFYING ALL DEVIATIONS OR VARIATIONS FROM THE ORIGINAL PLANS.
21. CONTRACTOR SHALL GIVE NOTICE TO ALL AFFECTED PARTIES AND ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS, AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
22. ALL "RECORD" DIMENSIONS SHALL CONFORM TO THE DESIGN DIMENSIONS PLUS OR MINUS 0.02 FEET. ALL "RECORD" SLOPES SHALL CONFORM TO THE DESIGNED SLOPES PLUS OR MINUS 0.005 FOOT/FOOT.
23. CONTRACTOR SHALL CONTACT CITY BUILDING OFFICIAL TO LEARN OF ANY UNUSUAL CONSTRUCTION SEQUENCING REQUIREMENTS THAT THE CITY MAY REQUIRE. THE CONTRACTOR IS CAUTIONED THAT THIS AND PERHAPS OTHER SUCH REQUIREMENTS MAY EXIST AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE AND COMPLY WITH THEM.

PAVING AND STRIPING NOTES

- 1. THE REINFORCED PORTLAND CEMENT CONCRETE (NON FIRELANE) SHOULD HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI (MINIMUM 5.5 SACK MIX) FOR LIGHT DUTY CONCRETE. FIRELANES AND DUMPSTER AREAS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,600 PSI (MINIMUM 6.5 SACK MIX) AT 28 DAYS. MINIMUM REINFORCING FOR LIGHT DUTY PAVEMENT SHALL BE #3 BARS @ 18" O.C.E.W., FIRELANES SHALL BE #4 BARS @ 24" O.C.E.W., DUMPSTER AREA PAVEMENT SHALL BE #4 BARS @ 18" O.C.E.W., AND SHALL STRICTLY ADHERE TO DETAILS INCLUDED IN THIS SET. A BASE SUB-GRADE PER THE GEOTECHNICAL REPORT IS REQUIRED BENEATH ALL PAVING. CONCRETE PAVING FOR PUBLIC SIDEWALKS SHALL BE 3,600 PSI (MINIMUM 6.5 SACK MIX) REINFORCED WITH #3 BARS @ 14" O.C.E.W. NO SAND IS ALLOWED UNDER ANY PAVING.

- 2. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN AGENCY, APPROVED BY THE OWNER, FOR TESTING MATERIALS. PROCUREMENT OF THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE CITY AND PROJECT SPECIFICATIONS.
3. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
4. THE CONTRACTOR SHALL REVIEW LOCATION OF ALL TRAFFIC CONTROL DEVICES WITH THE OWNER PRIOR TO INSTALLATION.
5. SEE M.E.P. PLANS FOR LOCATION OF PROPOSED SLEEVING AND CONDUITS.
6. ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE MOST RECENT VERSION OF THE AMERICANS WITH DISABILITIES ACT OF 1994 AND THE TEXAS ARCHITECTURAL BARRIERS ACT OF 1994, AND ALL ADDENDUMS OR UPDATES.
7. CONTRACTOR SHALL SUBMIT A PAVEMENT JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO THE BEGINNING OF ANY CONCRETE PAVING WORK.
8. ANY EXISTING CONCRETE OR ASPHALT SHOWN TO BE REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR OFF SITE. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
9. CONSTRUCTION JOINTS SHALL BE REQUIRED AT INTERRUPTIONS OF PAVING OPERATIONS SUCH AS THOSE OCCURRING AT THE END OF THE DAY OR DUE TO WEATHER OR EQUIPMENT BREAKDOWN. PLACE AT LONGITUDINAL CONSTRUCTION OR ISOLATION JOINT LOCATIONS.
10. CONTRACTOR TO INSTALL CONSTRUCTION JOINTS IN CONCRETE PAVEMENT AT ALL PC'S AND AS CONVENIENT TO PHASING OF POURS. CONCRETE PAVEMENT TO BE CONSTRUCTED WITH ISOLATION JOINTS AROUND THE PERIMETER OF ANY BLOCK OUT IN PAVEMENT AND SAWED DUMMY JOINTS EVERY 12' IN BOTH DIRECTIONS.
11. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
12. RADIAL JOINTS SHALL BE NO SHORTER THAN 24".
13. ALL CONSTRUCTION JOINTS SHALL BE SAWED, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH HOT POURED RUBBER JOINT SEALING COMPOUND.

STORM SEWER NOTES

- 1. CONTRACTOR SHALL FIELD VERIFY THE VERTICAL AND HORIZONTAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER IMMEDIATELY IF A CONFLICT IS DISCOVERED.
2. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS, GRATE INLETS, AND ALL UTILITIES CROSSING THE STORM SEWER. FLOW LINES AND RIMS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE PROPOSED GRADE PRIOR TO CONSTRUCTION.
3. THE END OF ALL STORM SEWER LATERALS THAT CONNECT TO WORK BY PLUMBER SHALL BE TIGHTLY PLUGGED OR CAPPED AND MARKED 5.0 FEET OUTSIDE THE BUILDING UNTIL FINAL CONNECTIONS ARE MADE BY PLUMBING CONTRACTOR.
4. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER.
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS.
6. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. EXISTING MANHOLE TOPS AND ALL OTHER DRAINAGE FACILITIES SHALL BE ADJUSTED AS REQUIRED TO MATCH FINAL GRADES AS SHOWN ON GRADING PLAN. NO SEPARATE PAY ITEM.
8. ALL RCP SHALL BE CLASS 3 OR APPROVED EQUAL.

STORM SEWER DISCHARGE AUTHORIZATION

- 1. IF THE TOTAL DISTURBED AREA EXCEEDS ONE (1) ACRE A NOTICE OF INTENT (N.O.I.) SHALL BE SUBMITTED BY THE CONTRACTOR TO THE TCEQ NO LESS THAN 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN A CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.
3. A COPY OF THE SWPPP, INCLUDING CONTRACTOR CERTIFICATIONS AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY AND FILED WITH THE CONSTRUCTION PLANS, AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.
4. A NOTICE OF TERMINATION (N.O.T.) SHALL BE SUBMITTED TO THE TCEQ BY THE CONTRACTOR WHEN THE SITE HAS 100% OF THE DISTURBED AREAS STABILIZED AND THE SITE NO LONGER HAS STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES (CONSTRUCTION), OR THE N.O.T. PERMITTEE OR CO-PERMITTEE NO LONGER HOLDS OPERATIONAL CONTROL OF THE CONSTRUCTION.

TRAFFIC CONTROL NOTES

- 1. SIGNED AND SEALED TRAFFIC CONTROL PLANS MUST BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO THE INSTALLATION OF ANY TRAFFIC CONTROL DEVICES.
2. ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST VERSION.
3. THE CONTRACTOR SHALL COVER EXISTING SIGNS AND OBLITERATE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE INTENT OF THESE TRAFFIC CONTROL PLANS TO AVOID CONFUSION TO THE TRAVELING PUBLIC.
4. THE CONTRACTOR SHALL UNCOVER EXISTING SIGNS AND REPLACE PAVEMENT MARKINGS IN-KIND AS ORIGINALLY CONFIGURED AT THE END OF CONSTRUCTION OPERATIONS AND PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
5. ALL TEMPORARY SIGNS, BARRICADES, WARNING LIGHTS AND OTHER MISCELLANEOUS TRAFFIC CONTROL MEASURES SHALL BE REMOVED AND ORIGINAL TRAFFIC CONTROL MEASURES REPLACED AT THE END OF THE CONTRACTOR'S CONSTRUCTION OPERATIONS.

EROSION CONTROL NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL USE SEDIMENT FILTERS OR OTHER MEASURES APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM CLOGGING STORM SEWER PIPES OR PROPOSED OR EXISTING INLETS, OR FROM BEING TRANSPORTED TO ADJACENT PROPERTIES AND STREET RIGHT-OF-WAYS. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL GRADING AND PAVING IS COMPLETE AND PERMANENT SOIL STABILIZATION IS ACHIEVED.
2. CONSTRUCTION OPERATIONS SHALL BE MANAGED SO THAT AS MUCH OF THE SITE AS POSSIBLE IS LEFT COVERED WITH EXISTING TOPSOIL AND VEGETATION.

- 3. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH. THE AREAS SHALL THEN BE SEEDED (OR SODDED), IRRIGATED, AND MAINTAINED UNTIL PERMANENT STAND OF GRASS IS ACHIEVED WITH A MINIMUM OF 80% COVERAGE. UNLESS OTHERWISE NOTED, PRIVATE LAWN AREAS AND PARKWAYS IN FRONT OF PRIVATE LAWN AREAS DISTURBED BY CONSTRUCTION SHALL BE REPLACED WITH BLOCK SOD SIMILAR TO THAT EXISTING.
4. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION TRAFFIC UTILIZES THE STABILIZED ENTRANCE AT ALL TIMES FOR INGRESS/EGRESS TO THE SITE.
5. CONSTRUCTION ENTRANCE:
- MINIMUM SIZE STONE: 5-INCHES DIAMETER (NO CRUSHED CONCRETE ALLOWED)
- THICKNESS: NOT LESS THAN 12-INCHES
- LENGTH: AS SHOWN ON PLAN
- WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS AND EGRESS.
- MAINTENANCE REQUIREMENTS: AS NECESSARY TO PREVENT TRACKING OR FLOWING MUD INTO PUBLIC RIGHT-OF-WAY OR PARKING AREAS.

- 6. SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON A PUBLIC ROADWAY SHALL BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
7. CONTRACTOR IS RESPONSIBLE FOR PROPER MAINTENANCE OF THE REQUIRED EROSION CONTROL DEVICES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EROSION CONTROLS SHALL BE REPAIRED OR REPLACED AS INSPECTION DEEMS NECESSARY, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ACCUMULATED SILT IN ANY EROSION CONTROL DEVICE SHALL BE REMOVED AND SHALL BE DISTRIBUTED ON SITE IN A MANNER NOT CONTRIBUTING TO ADDITIONAL SILTATION. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH IS DISTURBED.
8. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE FILTER BARRIER (OR OTHER METHOD APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT ADVERSE OFF SITE IMPACTS OR STORM WATER QUALITY FROM SILT AND CONSTRUCTION DEBRIS FLOWING ONTO ADJACENT PROPERTIES AS REQUIRED BY THE CITY.
9. BEFORE ANY EARTHWORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
10. CONTRACTOR STAGING AREA TO BE AGREED UPON BY OWNER PRIOR TO BEGINNING CONSTRUCTION.
11. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY THE T.C.E.Q. OR THE GOVERNING CITY.
12. 75%-80% OF ALL DISTURBED AREA TO HAVE A MINIMUM OF 1" STAND OF GRASS PRIOR TO CITY ACCEPTANCE.

GRADING NOTES

- 1. A GRADING AND STORMWATER CONTROL PERMIT IS REQUIRED FROM THE CITY PRIOR TO STARTING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS AND PAYING ALL ASSOCIATED FEES.
2. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
3. ALL SPOT ELEVATIONS SHOWN ARE TO TOP OF PAVING SURFACE OR FINISHED EARTH GRADE UNLESS NOTED OTHERWISE.
4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE EXISTING AND PROPOSED BUILDINGS AND NO PONDING IN PAVED AREAS. CONTRACTOR ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE IS ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PAVING IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED.
5. THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
6. ALL EXISTING CONCRETE PAVING, CHANNEL IMPROVEMENTS, SIDEWALK, STRUCTURES AND CURB DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF BY THE CONTRACTOR, OFFSITE UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER.
7. ALL CLEARING, GRADING, COMPACTION AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE TO THE GEOTECHNICAL REPORT. MINIMUM OF 95% STANDARD DENSITY COMPACTION USING A SHEEP'S FOOT ROLLER.
8. GRADING CONTRACTOR TO COORDINATE WITH THE FRANCHISE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
9. THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES AND USE TO DETERMINE HIS BID ACCORDINGLY.
10. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE HANDICAPPED ROUTES (PER A.D.A. & T.A.S.) EXIST TO AND FROM EVERY DOOR. IN NO CASE SHALL HANDICAP RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5.0 PERCENT. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A. AND T.A.S. COMPLIANCE ISSUES.
11. THE DETENTION SYSTEM SHALL BE FULLY INSTALLED AND FUNCTIONING PER PLAN INCLUDING THE SIDES AND BOTTOM TO BE STABILIZED WITH ANCHORED SEEDED (BERMUDA MIX) CURLEX OR SOD PRIOR TO ANY PAVING INCLUDING SLAB.

BENCHMARKS
1. CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

SERVICE KING 1780 E I-30 FRONTAGE RD
ROCKWALL, TX 75087
LEGAL DESCRIPTION AND OR ADDRESS:
SHERIFF'S TAX DEED
U.V. REAL ESTATE, LP.
DOCUMENT NO. 2012-00466327
3,293 AC
OWNER:
U.V. REAL ESTATE L.P.,
8131 LYNDON B JOHNSON FREEWAY
SUITE 770
DALLAS, TEXAS 75251
APPLICANT:
CLAYMOORE ENGINEERING, INC.
1903 CENTRAL DRIVE, SUITE #406
BEDFORD, TX 76021
PH: 817.281.0572
CASE NUMBER
SP2016-006



SERVICE KING
1780 E. INTERSTATE 30 FRONTAGE RD
ROCKWALL, TEXAS 75087
SP2016-006

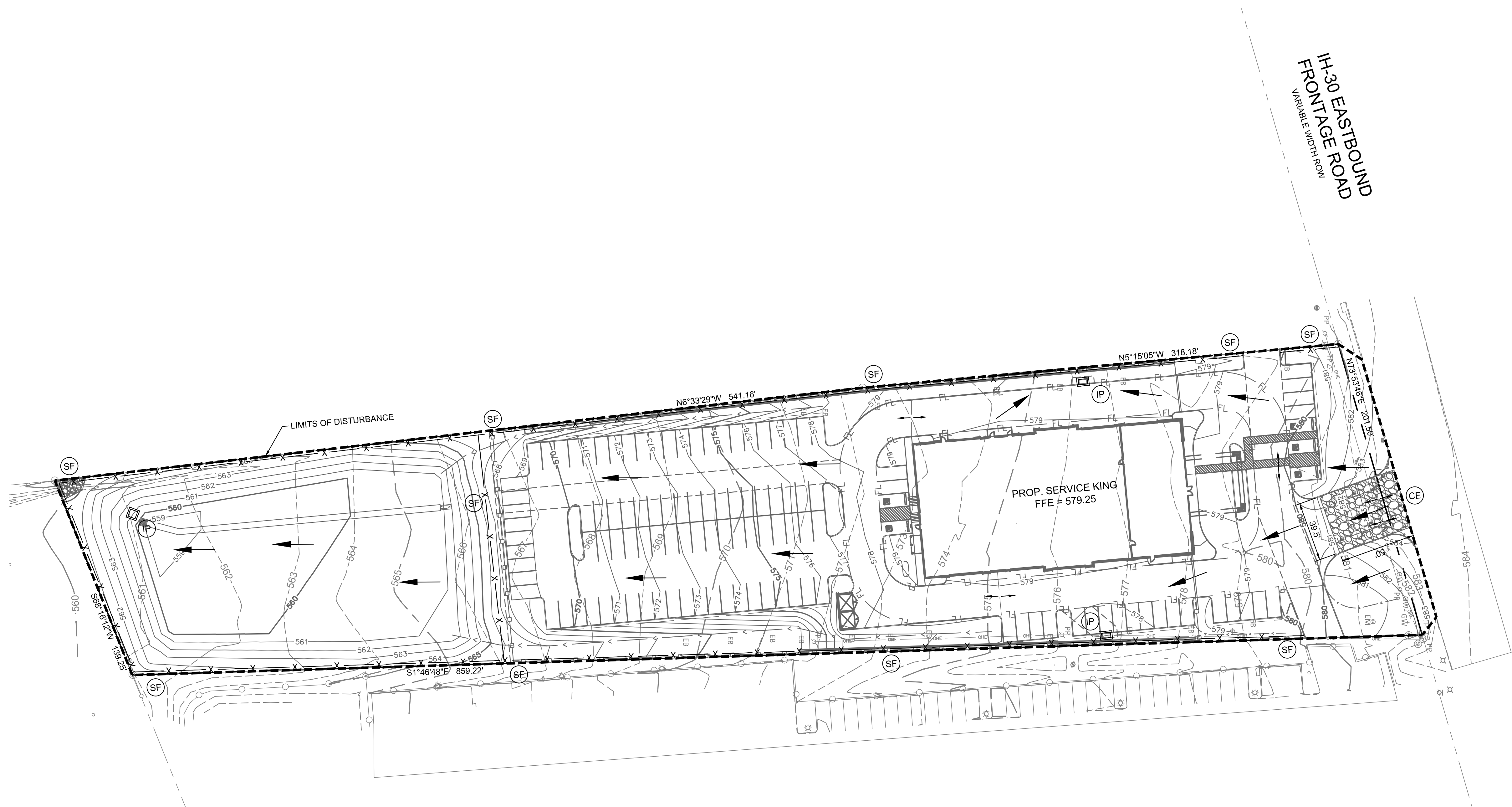
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GENERAL NOTES
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CHECKED: CLC
DATE: 11/16/2017
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File No. 2015-147

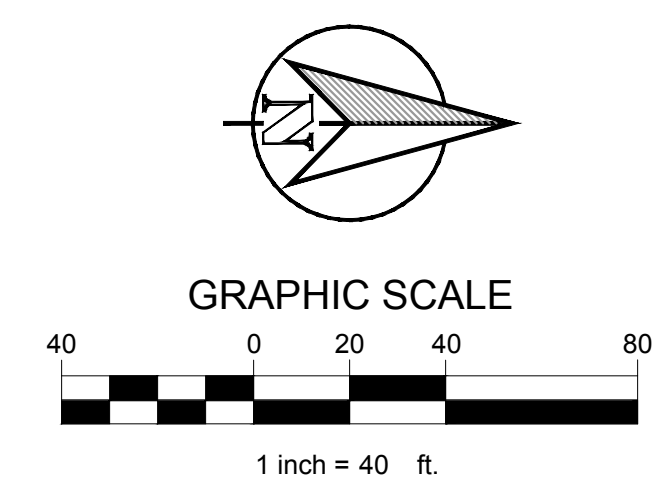
PLOTTED BY: NATHAN AYRES
PLOT DATE: 11/16/2017 10:24 AM
LOCATION: Z:\PROJECTS\PROJECTS\2015-147 SERVICE KING ROCKWALL\CADD\SHEETS\C-1 GENERAL NOTES.DWG
LAST SAVED: 8/8/2016 11:50 PM

This drawing has been revised to show those changes during the construction process found by a Detention Pond and As-Built survey by James Anderson (Stamped By Rudy Rangel, Dated 06/15/2017). This drawing is not guaranteed to be "As Built" but is based on the limited information obtained from the survey, contractor and field visit.
By: [Signature] Date: 11/16/2017

PLOTTED BY: NATHAN AYRES
 PLOT DATE: 11/16/2017 10:24 AM
 LOCATION: Z:\PROJECTS\PROJECTS\2015-147 SERVICE KING ROCKWALL\CADD\SHEETS\C-2 EROSION CONTROL PLAN.DWG
 LAST SAVED: 8/10/2016 2:18 PM



This drawing has been revised to show those changes during the construction process found by a Detention Pond and As-Built survey by James Anderson (Stamped BY Rudy Rangel, Dated 06/15/2017). This drawing is not guaranteed to be "As Built" but is based on the limited information obtained from the survey, contractor and field visit.
 By: *Matt Moore* Date: 11/16/2017



| LEGEND | |
|--------|------------------------|
| | DIRECTION OF FLOW |
| | EXISTING CONTOUR |
| | PROPOSED CONTOUR |
| | LIMITS OF CONSTRUCTION |
| | SILT FENCE |
| | CONSTRUCTION ENTRANCE |
| | INLET PROTECTION |

| ACREAGE SUMMARY | |
|------------------------|---------|
| ONSITE DISTURBED AREA | 3.29 AC |
| OFFSITE DISTURBED AREA | 0.06 AC |
| TOTAL DISTURBED AREA | 3.35 AC |

| BENCHMARKS | |
|------------|--|
| 1. | CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92 |

| | |
|--|--|
| SERVICE KING 1780 E I-30 FRONTAGE RD ROCKWALL, TX 75087 | |
| LEGAL DESCRIPTION AND/OR ADDRESS: SHERIFF'S TAX DEED U.V. REAL ESTATE, LP. DOCUMENT NO. 2012-00466327 3.293 AC | |
| OWNER: U.V. REAL ESTATE L.P. 8131 LYNDON B JOHNSON FREEWAY SUITE 770 DALLAS, TEXAS 75251 | |
| APPLICANT: CLAYMOORE ENGINEERING, INC. 1903 CENTRAL DRIVE, SUITE #406 BEDFORD, TX 76021 PH: 817.281.0572 | |
| CASE NUMBER SP2016-006 | |

TEXAS REGISTRATION #14199

 1903 CENTRAL DR. SUITE #406
 BEDFORD, TX 76021
 PHONE: 817.281.0572
 WWW.CLAYMOOREENGINEERING.COM

STATE OF TEXAS

 MATT MOORE
 95813
 LICENSED PROFESSIONAL ENGINEER
 11/16/2017

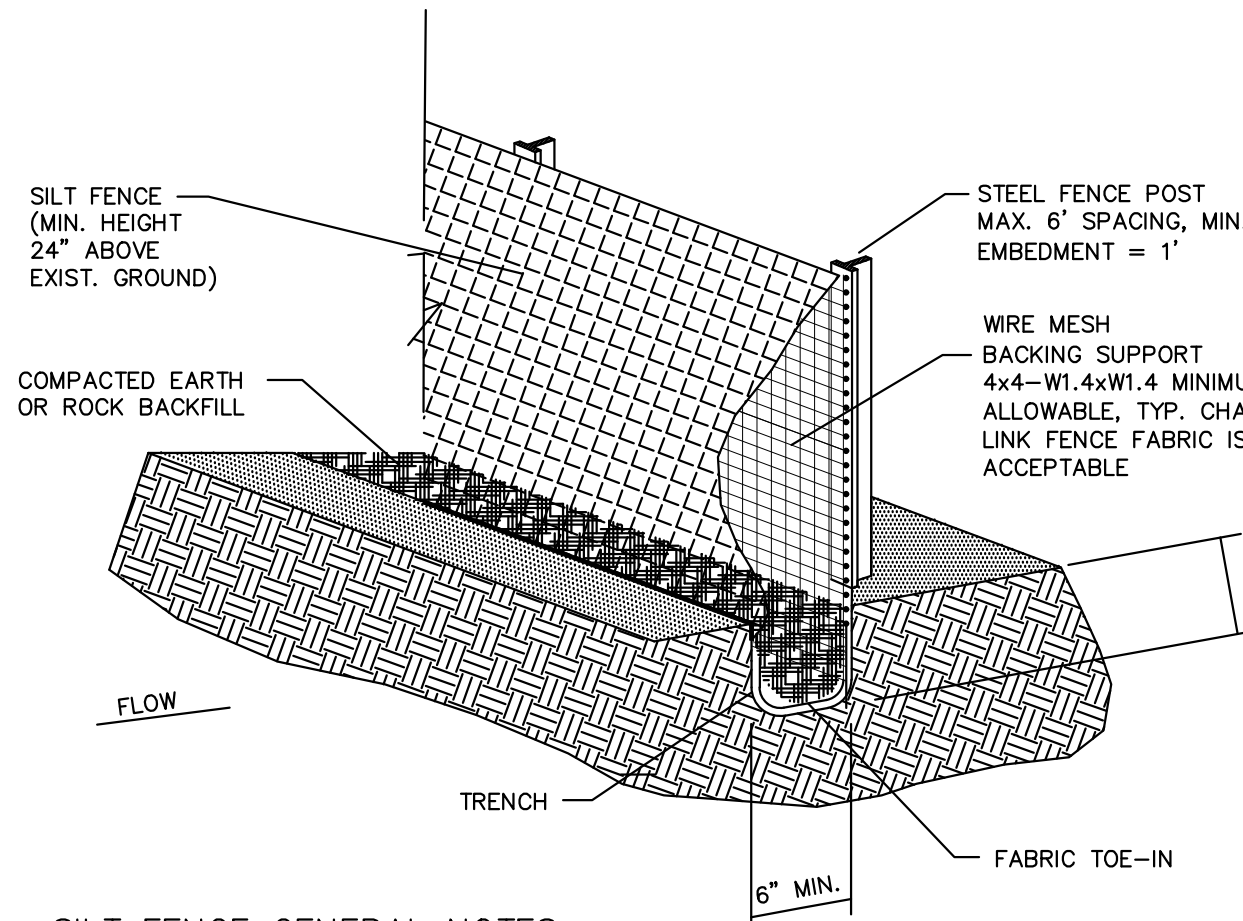
SERVICE KING
1780 E. INTERSTATE 30 FRONTAGE RD
ROCKWALL, TEXAS 75087
SP2016-006

| No. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |

EROSION CONTROL PLAN
 DESIGN: ASD
 DRAWN: ASD
 CHECKED: CLC
 DATE: 11/16/2017
 SHEET
C-2
 File No. 2015-147

STANDARD EROSION CONTROL GENERAL NOTES

1. EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.
2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF ROCKWALL.
3. IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT THE EROSION CONTROL PLAN WILL BE REQUIRED TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE.
4. IF OFF-SITE BORROW OR SPOILS SITES ARE USED IN CONJUNCTION WITH THIS PROJECT, THIS INFORMATION SHALL BE DISCLOSED AND SHOWN ON THE EROSION CONTROL PLAN. OFF-SITE BORROW AND SPOILS AREAS ARE CONSIDERED PART OF EROSION CONTROL REQUIREMENTS. THESE AREAS SHALL BE STABILIZED WITH GROUND COVER PRIOR TO FINAL APPROVAL OF THE PROJECT.
5. INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO INSURE THAT THE DEVICES ARE FUNCTIONING PROPERLY. WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN STONES OR MUD IS BEING TRACKED ONTO A PUBLIC ROADWAY THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL OFF SITE SEDIMENTATION. PERIODIC RE-GRADING OR THE ADDITION OF NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFICIENCY OF THE INSTALLATION.
6. CONTRACTOR SHALL HAVE A COPY THE SWPPP ON SITE AT ALL TIMES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T. AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORM WATER POLLUTION PREVENTION REQUIREMENTS.

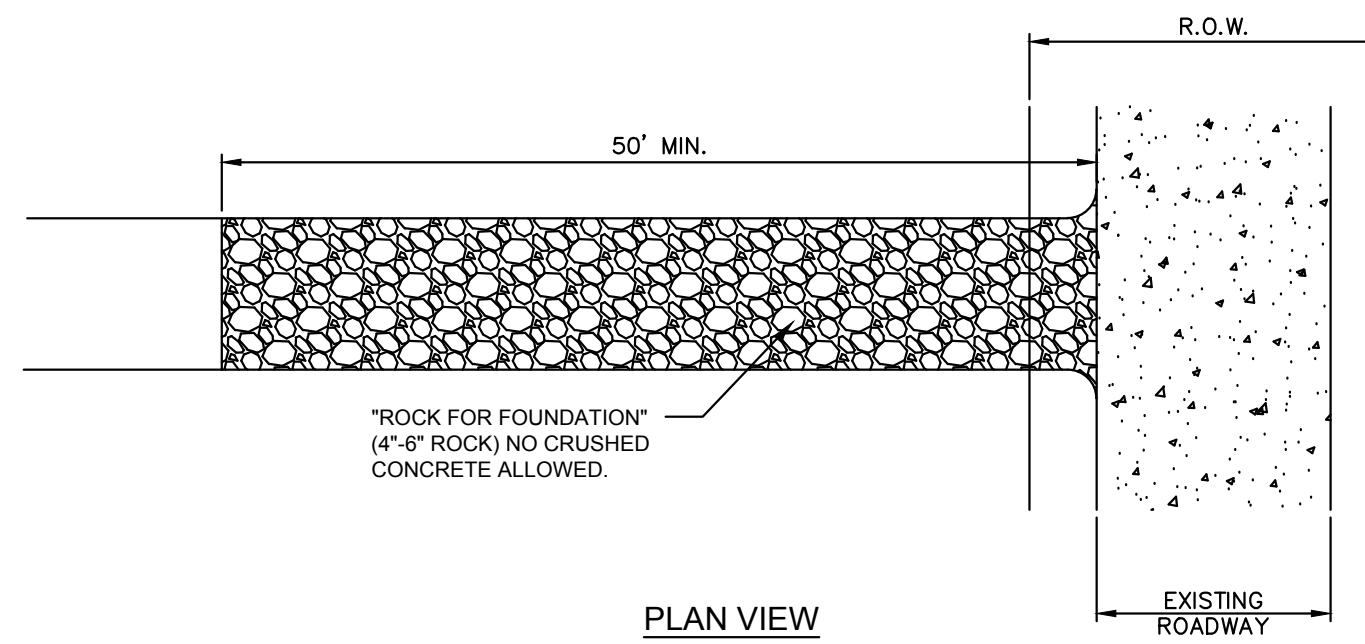


SILT FENCE GENERAL NOTES

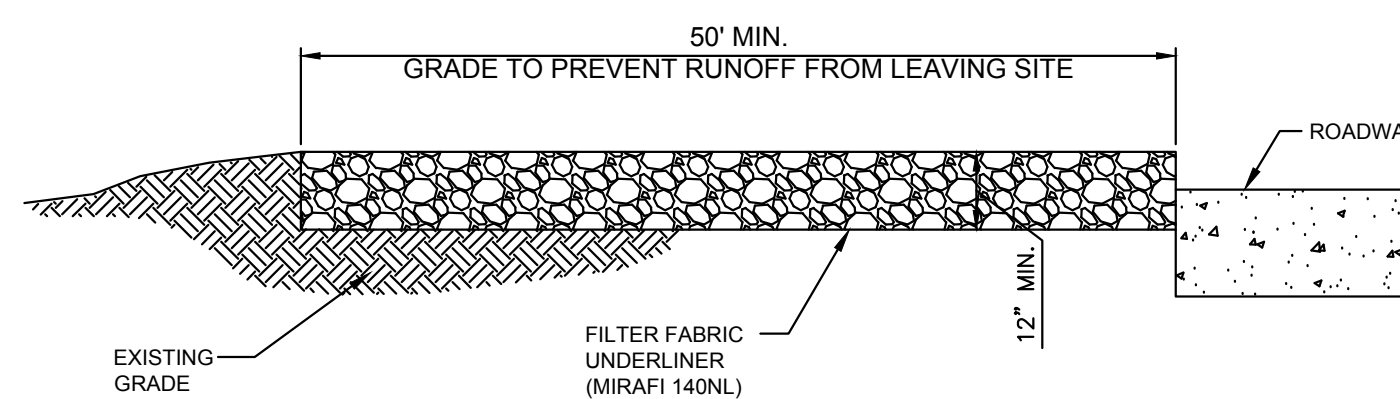
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY WEEK AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CONSTRUCTION OF A FILTER BARRIER

N.T.S.



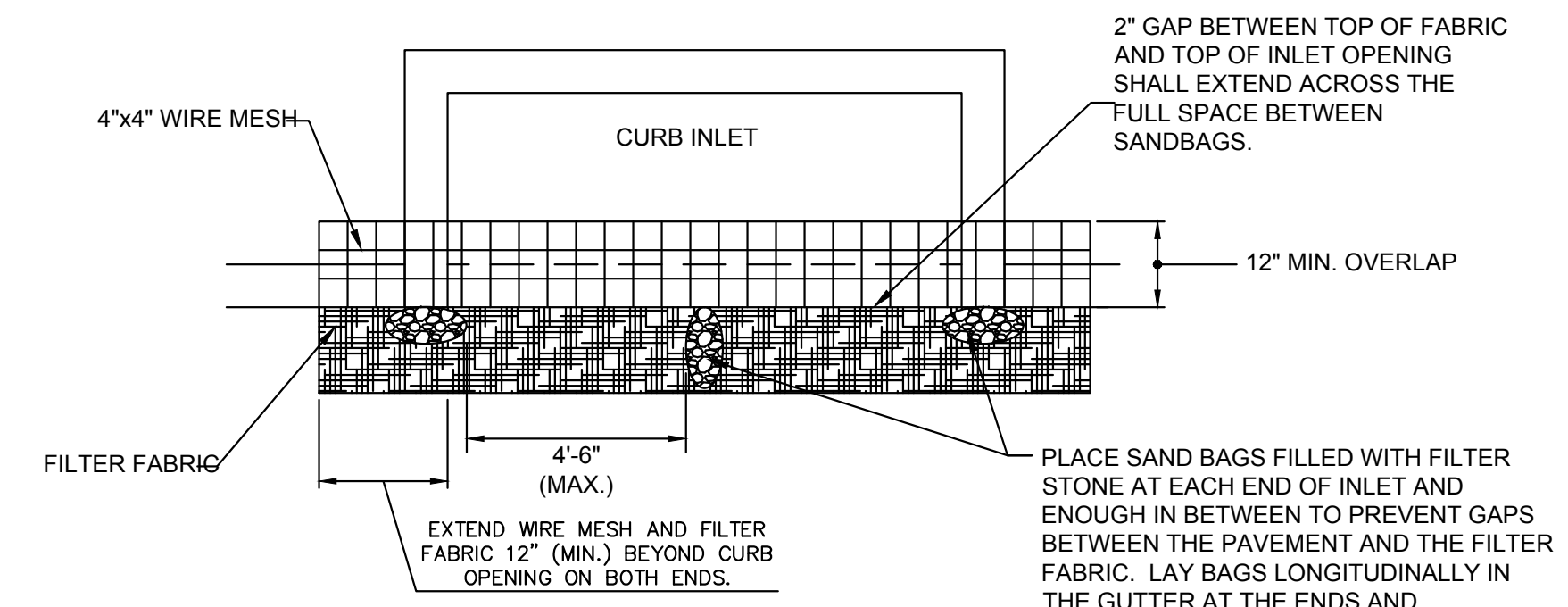
PLAN VIEW



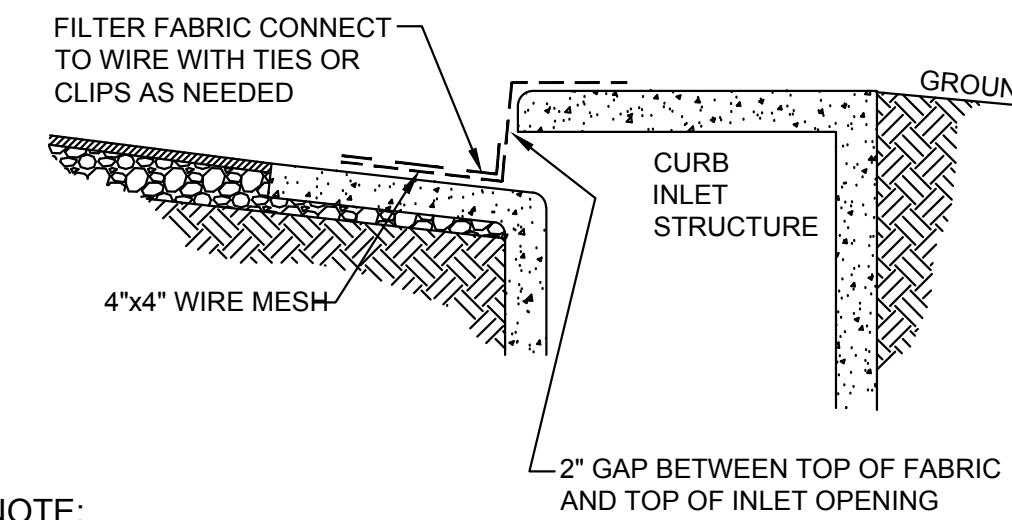
PROFILE

CONSTRUCTION ENTRANCE DETAIL

N.T.S.



PLAN VIEW



CROSS SECTION

CURB INLET PROTECTION DETAIL

N.T.S.



NOTE:
VERTICAL PANEL BARRICADES TO BE PLACED WHEN LOCATED ON AN ACTIVE STREET.

This drawing has been revised to show those changes during the construction process found by a Detention Pond and As-Built survey by James Anderson (Stamped BY Rudy Rangel, Dated 06/15/2017). This drawing is not guaranteed to be "As Built" but is based on the limited information obtained from the survey, contractor and field visit.
By: *[Signature]* Date: 11/16/2017

EROSION CONTROL SCHEDULE AND PHASING

THE PROJECT SHALL GENERALLY CONFORM TO THE FOLLOWING:

- PHASE 1 – DEMOLITION/GRADING
- A. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, AND TREE PROTECTION FENCE ACCORDING TO THE APPROXIMATE LOCATION SHOWN ON GRADING AND EROSION CONTROL PLAN, NOTES, AND DETAIL SHEETS.
 - B. BEGIN CLEARING AND GRADING OF SITE.
 - C. SEED AND REVEGETATE SLOPES WHERE SHOWN.
- PHASE 2 – UTILITIES
- A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE.
 - B. INSTALL STORM DRAINS AS SPECIFIED ON PLAN SHEETS.
 - C. INSTALL INLET PROTECTION.
- PHASE 3 – PAVING
- A. KEEP ALL STORM WATER POLLUTION PREVENTION MEASURES IN PLACE. REMOVE AS NEEDED TO PAVE.
 - B. STABILIZE SUBGRADE.
 - C. PAVE PARKING LOT AND SIDEWALKS AS SPECIFIED ON PLAN SHEETS.
 - D. REMOVE TEMPORARY CONSTRUCTION ENTRANCE.
 - E. MAINTAIN INLET PROTECTION.
- PHASE 4 – LANDSCAPING AND SOIL STABILIZATION
- A. REVEGETATE LOT AND PARKWAYS
 - B. LANDSCAPE CONTRACTOR SHALL REVEGETATE ALL AREAS RESERVED FOR LANDSCAPE VEGETATIVE COVERS.
 - C. REMOVE EROSION CONTROL DEVICES WHEN GROUND COVER ESTABLISHED.

B.M.P. MAINTENANCE SCHEDULE

TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE FACILITY IS FUNCTIONING PROPERLY. AGGREGATE PAD SHALL BE WASHED DOWN OR REPLACED WHEN SEDIMENT OR MUD HAS CLOGGED THE VOID SPACES BETWEEN THE STONES OR MUD IS BEING TRACKED ONTO THE PUBLIC ROADWAY. RUNOFF FROM WASH DOWN OPERATION SHALL BE FILTERED THROUGH ANOTHER B.M.P. PRIOR TO DRAINING OFF-SITE.

SILT FENCE:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-THIRD THE HEIGHT OF THE FENCE ABOVE GRADE. FENCE SHALL BE INSPECTED FOR GAPS AT BASE. INSPECT SUPPORTING POSTS AND FILTER FABRIC. REPLACE IF REQUIRED.

INLET PROTECTION:

INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN STORM EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY. SEDIMENT SHALL BE REMOVED FROM THE STORAGE AREA WHEN SEDIMENT DEPTH HAS BUILT UP TO ONE-HALF THE DESIGN DEPTH. IF DE-WATERING OF THE STORAGE VOLUME IS NOT OCCURRING, CLEAN OR REPLACE THE FILTER STONE SURROUNDING THE INLET. CLEAN THE STONE SURFACE THE FIRST FEW TIMES BY RAKING. REPEATED SEDIMENT BUILD-UP WILL REQUIRE FILTER STONE REPLACEMENT.

BENCHMARKS

1. CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

SERVICE KING 1780 E I-30 FRONTAGE RD
ROCKWALL, TX 75087

LEGAL DESCRIPTION AND OR ADDRESS:
SHERIFF'S TAX DEED
U.V. REAL ESTATE, LP.
DOCUMENT NO. 2012-00466327
3.293 AC

OWNER:
U.V. REAL ESTATE L.P.
8131 LYNDON B JOHNSON FREEWAY
SUITE 770
DALLAS, TEXAS 75251

APPLICANT:
CLAYMOORE ENGINEERING, INC.
1903 CENTRAL DRIVE, SUITE #406
BEDFORD, TX 76021
PH: 817.281.0572

CASE NUMBER
SP2016-006



SERVICE KING
1780 E. INTERSTATE 30 FRONTAGE RD
ROCKWALL, TEXAS 75087
SP2016-006

| No. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |
| | | | |
| | | | |

EROSION CONTROL
DETAILS

DESIGN: ASD
DRAWN: ASD
CHECKED: CLC
DATE: 11/16/2017
SHEET

C-3

PLOTTED BY: NATHAN AYRES
 PLOT DATE: 11/16/2017 10:25 AM
 LOCATION: Z:\PROJECTS\PROJECTS\2015-147 SERVICE KING ROCKWALL\CADD\SHEETS\C-3 EROSION CONTROL DETAILS.DWG
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SERVICE KING
1780 E. INTERSTATE 30 FRONTAGE RD
ROCKWALL, TEXAS 75087
SP2016-006

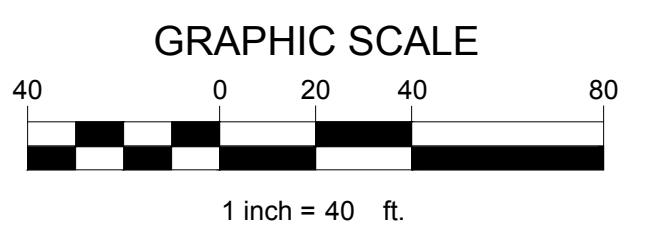
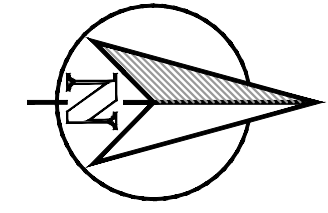
| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
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GRADING PLAN

DESIGN: ASD
 DRAWN: ASD
 CHECKED: CLC
 DATE: 11/16/2017

SHEET
C-5

File No. 2015-147



LEGEND

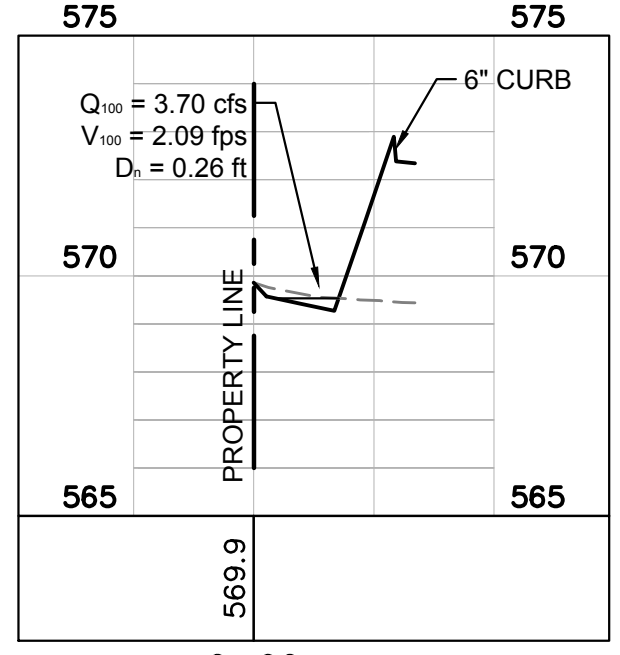
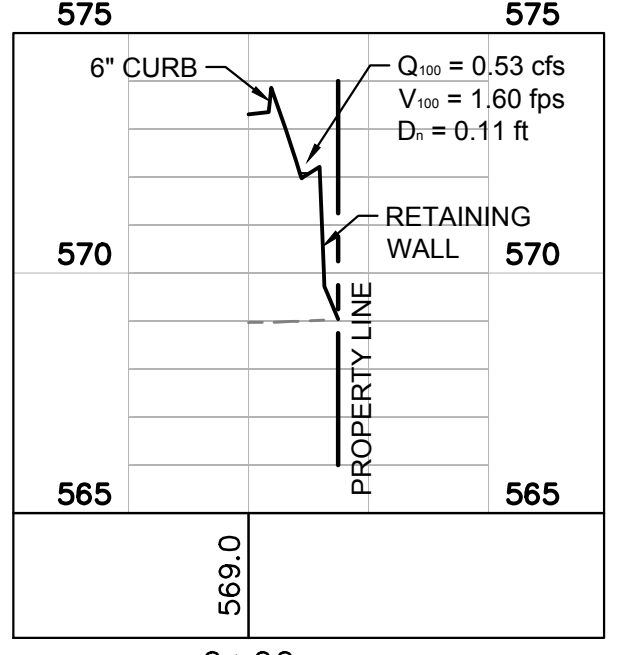
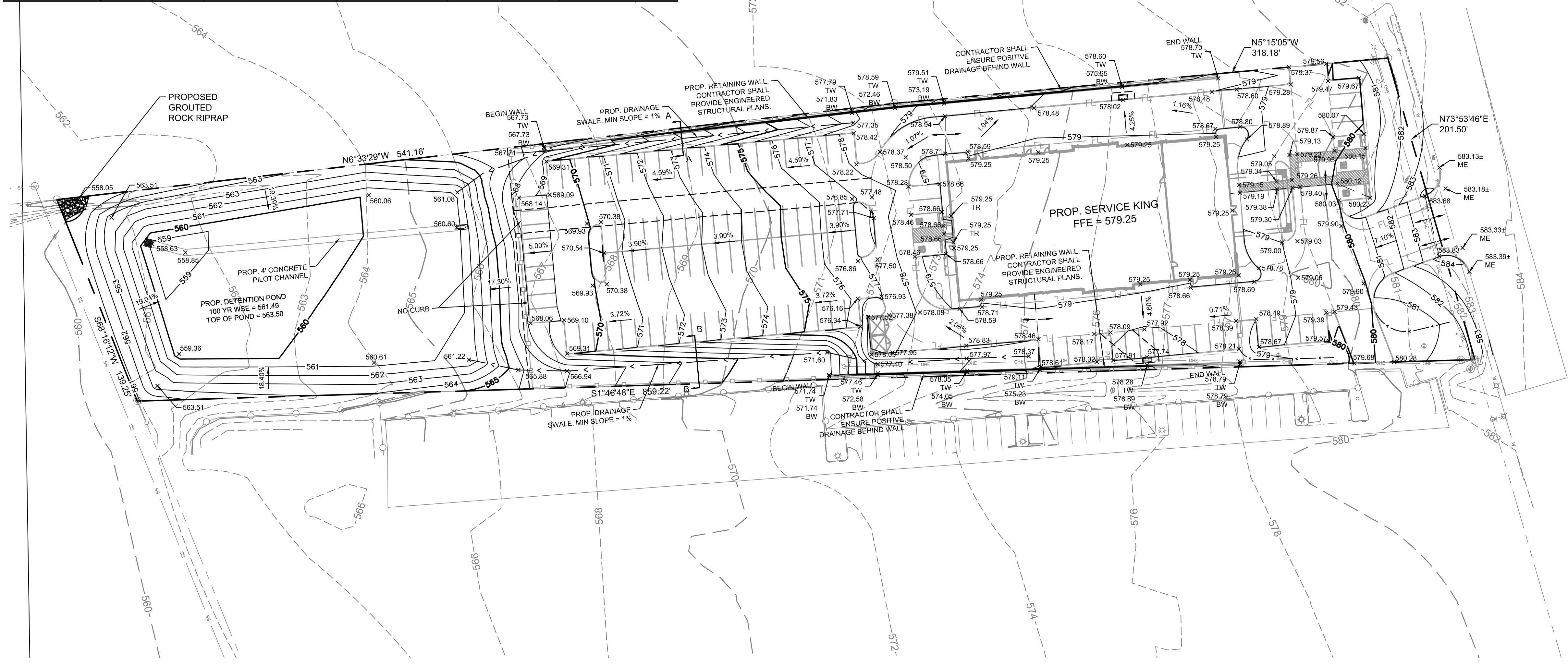
| | |
|---------|----------------------------------|
| — 100 — | EXISTING CONTOUR |
| — 100 — | PROPOSED CONTOUR |
| x699.50 | PROPOSED GRADE (TOP OF PAVEMENT) |
| ME | MATCH EXISTING |
| TC | TOP OF CURB |
| TW | TOP OF WALL |
| BW | BOTTOM OF WALL |
| - - - | RIDGE LINE |

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By: *Matt Moore* Date: 11/16/2017

Proposed Detention Pond Evaluation

| | Elevation | Area (sf) | Ac | Elevation Difference | Incremental Volume (ft ³) | Cumulative Volume (ft ³) | Cumulative Volume (ac-ft) |
|---------------------|-----------|-----------|------|----------------------|---------------------------------------|--------------------------------------|---------------------------|
| | 558.63 | 0 | 0.00 | 0.37 | 172 | 172 | 0.004 |
| | 559.00 | 929 | 0.02 | 0.50 | 1441 | 1613 | 0.037 |
| | 559.50 | 4835 | 0.11 | 0.50 | 3762 | 5375 | 0.123 |
| | 560.00 | 10212 | 0.23 | 0.50 | 6561 | 11936 | 0.274 |
| 5 YR WSE | 560.50 | 16033 | 0.37 | 0.50 | 9223 | 21159 | 0.486 |
| | 561.00 | 20857 | 0.48 | | | | |
| 10 YR WSE | 561.11 | | | | | | |
| 25 YR WSE | 561.23 | | | | | | |
| 100 YR WSE | 561.49 | | | 0.50 | 10907 | 32066 | 0.736 |
| | 561.50 | 22771 | 0.52 | | | | |
| | 562.00 | 24419 | 0.56 | 0.50 | 11798 | 43863 | 1.007 |
| | 562.50 | 26110 | 0.60 | 0.50 | 12632 | 56495 | 1.297 |
| | 563.00 | 27851 | 0.64 | 0.50 | 13490 | 69986 | 1.607 |
| 2' FREEBOARD | 563.50 | 29640 | 0.68 | 0.50 | 14373 | 84358 | 1.937 |



- NOTES:**
- ALL WALLS OF 3' TO BE DESIGNED (SIGNED/SEALED PLANS) BY A PROFESSIONAL ENGINEER. SAME ENGINEER TO SUBMIT A SIGNED AND SEALED LETTER OF CONCURRENCE/APPROVAL OF THE CONSTRUCTION OF THE WALL PRIOR TO CITY ACCEPTANCE. CITY INSPECTOR DOES NOT INSPECT WALL. NO SMOOTH CONCRETE WALLS ALLOWED. WALLS MUST BE ROCK, STONE, OR FORM LINED.

BENCHMARKS

- CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

SERVICE KING 1780 E I-30 FRONTAGE RD
ROCKWALL, TX 75087

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SHERIFF'S TAX DEED
U.V. REAL ESTATE, LP.
DOCUMENT NO. 2012-00466327
3.293 AC

OWNER:
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 CLAYMOORE ENGINEERING, INC.
 1903 CENTRAL DRIVE, SUITE #406
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 PH: 817.281.0572

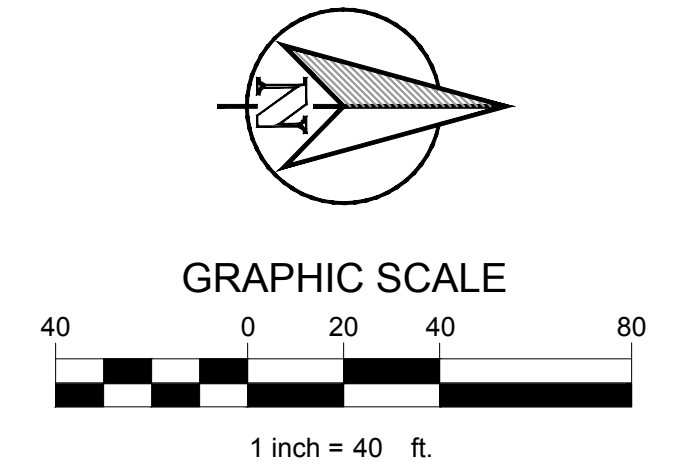
CASE NUMBER
SP2016-006

PLOTTED BY: NATHAN AYRES
 PLOT DATE: 11/16/2017 10:26 AM
 LOCATION: Z:\PROJECTS\PROJECTS\2015-147 SERVICE KING ROCKWALL\CADD\SHEETS\C-5 GRADING PLAN.DWG
 LAST SAVED: 8/26/2016 4:44 PM

| HYDROLOGIC CALCULATIONS - PRE DEVELOPED CONDITIONS | | | | | | | | | | | | |
|--|-------------|------|----------|------------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|------------------------|
| DRAINAGE AREA | AREA (AC.) | C | Tc (min) | Is (IN/HR) | Qs (CFS) | I10 (IN/HR) | Q10 (CFS) | I25 (IN/HR) | Q25 (CFS) | I100 (IN/HR) | Q100 (CFS) | REMARKS |
| EX-1 | 3.29 | 0.35 | 20.0 | 4.90 | 5.64 | 5.90 | 6.79 | 6.60 | 7.60 | 8.30 | 9.56 | DRAINS TO BACK OF SITE |
| OS-1 | 1.20 | 0.35 | 20.0 | 4.90 | 2.06 | 5.90 | 2.48 | 6.60 | 2.77 | 8.30 | 3.49 | DRAINS TO BACK OF SITE |
| OS-2 | 0.21 | 0.90 | 10.0 | 6.10 | 1.15 | 7.10 | 1.34 | 8.30 | 1.57 | 9.80 | 1.85 | DRAINS TO BACK OF SITE |
| OS-3 | 0.02 | 0.90 | 10.0 | 6.10 | 0.11 | 7.10 | 0.13 | 8.30 | 0.15 | 9.80 | 0.18 | DRAINS TO BACK OF SITE |
| TOTAL DRAINAGE | 4.72 | | | | 8.96 | | 10.74 | | 12.09 | | 15.07 | |

FLOODPLAIN NOTE

ACCORDING TO MAP NO. 48397C0045L, DATED SEPTEMBER 26, 2008 OF THE NATIONAL FLOOD INSURANCE PROGRAM MAP- FLOOD INSURANCE RATE MAP OF ROCKWALL COUNTY, TEXAS, FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, THIS PROPERTY IS WITHIN ZONE "X" (UNSHADED) AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA. IF THIS SITE IS NOT WITHIN AN IDENTIFIED SPECIAL FLOOD HAZARD AREA, THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.



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By: *W. Hill* Date: 11/16/2017

| LEGEND | |
|--------|--|
| | - DRAINAGE AREA - DRAINAGE AREA IN ACRES - FLOW FOR DRAINAGE AREA IN CFS |
| | DIRECTION OF FLOW |
| | DRAINAGE AREA BOUNDARY |



SERVICE KING
1780 E. INTERSTATE 30 FRONTAGE RD
ROCKWALL, TEXAS 75087
SP2016-006

NOTE:
 1. EXISTING DRIVEWAY HAS 3" RIDGE TO PREVENT WATER FROM ENTERING SITE ALONG R.O.W.

BENCHMARKS
 1. CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

| | |
|--|--|
| SERVICE KING 1780 E I-30 FRONTAGE RD ROCKWALL, TX 75087 | |
| LEGAL DESCRIPTION AND OR ADDRESS: SHERIFF'S TAX DEED U.V. REAL ESTATE, LP. DOCUMENT NO. 2012-00466327 3.293 AC | |
| OWNER: U.V. REAL ESTATE L.P. 8131 LYNDON B JOHNSON FREEWAY SUITE 770 DALLAS, TEXAS 75251 | |
| APPLICANT: CLAYMOORE ENGINEERING, INC. 1903 CENTRAL DRIVE, SUITE #406 BEDFORD, TX 76021 PH: 817.281.0572 | |
| CASE NUMBER SP2016-006 | |

| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |
| | | | |
| | | | |

EXISTING DRAINAGE AREA MAP

DESIGN: ASD
 DRAWN: ASD
 CHECKED: CLC
 DATE: 11/16/2017
 SHEET
C-6
 File No. 2015-147

PLOTTED BY: NATHAN AYRES
 PLOT DATE: 11/16/2017 10:27 AM
 LOCATION: Z:\PROJECTS\PROJECTS\2015-147 SERVICE KING ROCKWALL\CADD\SHEETS\C-6 EXISTING DRAINAGE AREA MAP.DWG
 LAST SAVED: 8/26/2016 4:46 PM

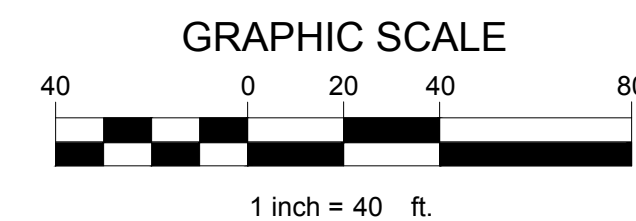
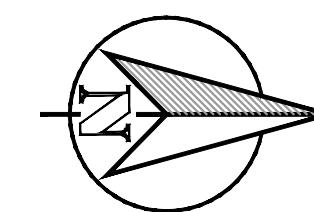


HYDROLOGIC CALCULATIONS - POST DEVELOPED CONDITIONS

| DRAINAGE AREA | AREA (AC.) | C | Tc (min) | I _p (IN/HR) | Q _s (CFS) | I ₁₀ (IN/HR) | Q ₁₀ (CFS) | I ₂₅ (IN/HR) | Q ₂₅ (CFS) | I ₁₀₀ (IN/HR) | Q ₁₀₀ (CFS) | REMARKS |
|---------------|-------------|------|----------|------------------------|----------------------|-------------------------|-----------------------|-------------------------|-----------------------|--------------------------|------------------------|---------------------------------------|
| A-1 | 0.57 | 0.90 | 10.0 | 6.10 | 3.13 | 7.10 | 3.64 | 8.30 | 4.26 | 9.80 | 5.03 | DRAINS TO STORM LINE A |
| A-2 | 0.69 | 0.90 | 10.0 | 6.10 | 3.79 | 7.10 | 4.41 | 8.30 | 5.15 | 9.80 | 6.09 | DRAINS TO STORM L AT A-1 |
| B-1 | 1.93 | 0.90 | 10.0 | 6.10 | 10.60 | 7.10 | 12.33 | 8.30 | 14.42 | 9.80 | 17.02 | SHEET FLOWS TO DETENTION POND |
| C-1 | 0.10 | 0.90 | 10.0 | 6.10 | 0.55 | 7.10 | 0.64 | 8.30 | 0.75 | 9.80 | 0.88 | BYPASS DETENTION POND, DRAINS OFFSITE |
| OS-1a | 0.20 | 0.35 | 20.0 | 4.90 | 0.34 | 5.90 | 0.41 | 6.60 | 0.46 | 8.30 | 0.58 | BYPASS DETENTION POND, (UNDETAINED) |
| OS-1b | 0.62 | 0.35 | 20.0 | 4.90 | 1.06 | 5.90 | 1.28 | 6.60 | 1.43 | 8.30 | 1.80 | DRAINS THRU POND, (UNDETAINED) |
| OS-1c | 0.38 | 0.35 | 20.0 | 4.90 | 0.65 | 5.90 | 0.78 | 6.60 | 0.88 | 8.30 | 1.10 | DRAINS TO STORM LINE A (UNDETAINED) |
| OS-2a | 0.04 | 0.90 | 10.0 | 6.10 | 0.22 | 7.10 | 0.26 | 8.30 | 0.30 | 9.80 | 0.35 | BYPASS DETENTION POND, (UNDETAINED) |
| OS-2b | 0.14 | 0.90 | 10.0 | 6.10 | 0.77 | 7.10 | 0.89 | 8.30 | 1.05 | 9.80 | 1.23 | DRAINS THRU POND, (UNDETAINED) |
| OS-2c | 0.03 | 0.90 | 10.0 | 6.10 | 0.16 | 7.10 | 0.19 | 8.30 | 0.22 | 9.80 | 0.26 | DRAINS TO STORM L AT A-1 (UNDETAINED) |
| OS-3 | 0.02 | 0.90 | 10.0 | 6.10 | 0.11 | 7.10 | 0.13 | 8.30 | 0.15 | 9.80 | 0.18 | DRAINS TO STORM L AT A-1 (UNDETAINED) |
| TOTAL | 4.72 | | | | 21.38 | | 24.97 | | 29.07 | | 34.53 | |

FLOODPLAIN NOTE

ACCORDING TO MAP NO. 48397C0045L, DATED SEPTEMBER 26, 2008 OF THE NATIONAL FLOOD INSURANCE PROGRAM MAP: FLOOD INSURANCE RATE MAP OF ROCKWALL COUNTY, TEXAS, FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, THIS PROPERTY IS WITHIN ZONE "X" (UNSHADED) AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA. IF THIS SITE IS NOT WITHIN AN IDENTIFIED SPECIAL FLOOD HAZARD AREA, THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR THE STRUCTURES THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. THIS FLOOD STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.



This drawing has been revised to show those changes during the construction process found by a Detention Pond and As-Built survey by James Anderson (Stamped BY Rudy Rangel, Dated 06/15/2017). This drawing is not guaranteed to be "As Built" but is based on the limited information obtained from the survey, contractor and field visit.

By: *Matt Moore* Date: 11/16/2017

LEGEND

| | |
|--|---------------------------------|
| | - DRAINAGE AREA |
| | - DRAINAGE AREA IN ACRES |
| | - FLOW FOR DRAINAGE AREA IN CFS |
| | DIRECTION OF FLOW |
| | DRAINAGE AREA BOUNDARY |
| | PROPOSED DETENTION AREA |

NOTE:

1. PROPOSED DRIVEWAY TO HAVE 6" RIDGE TO PREVENT WATER FROM ENTERING SITE ALONG R.O.W.

TEXAS REGISTRATION #14199

1903 CENTRAL DRIVE, SUITE #406
BEDFORD, TX 76021
PHONE: 817.281.0572
WWW.CLAYMOOREENGINEERING.COM

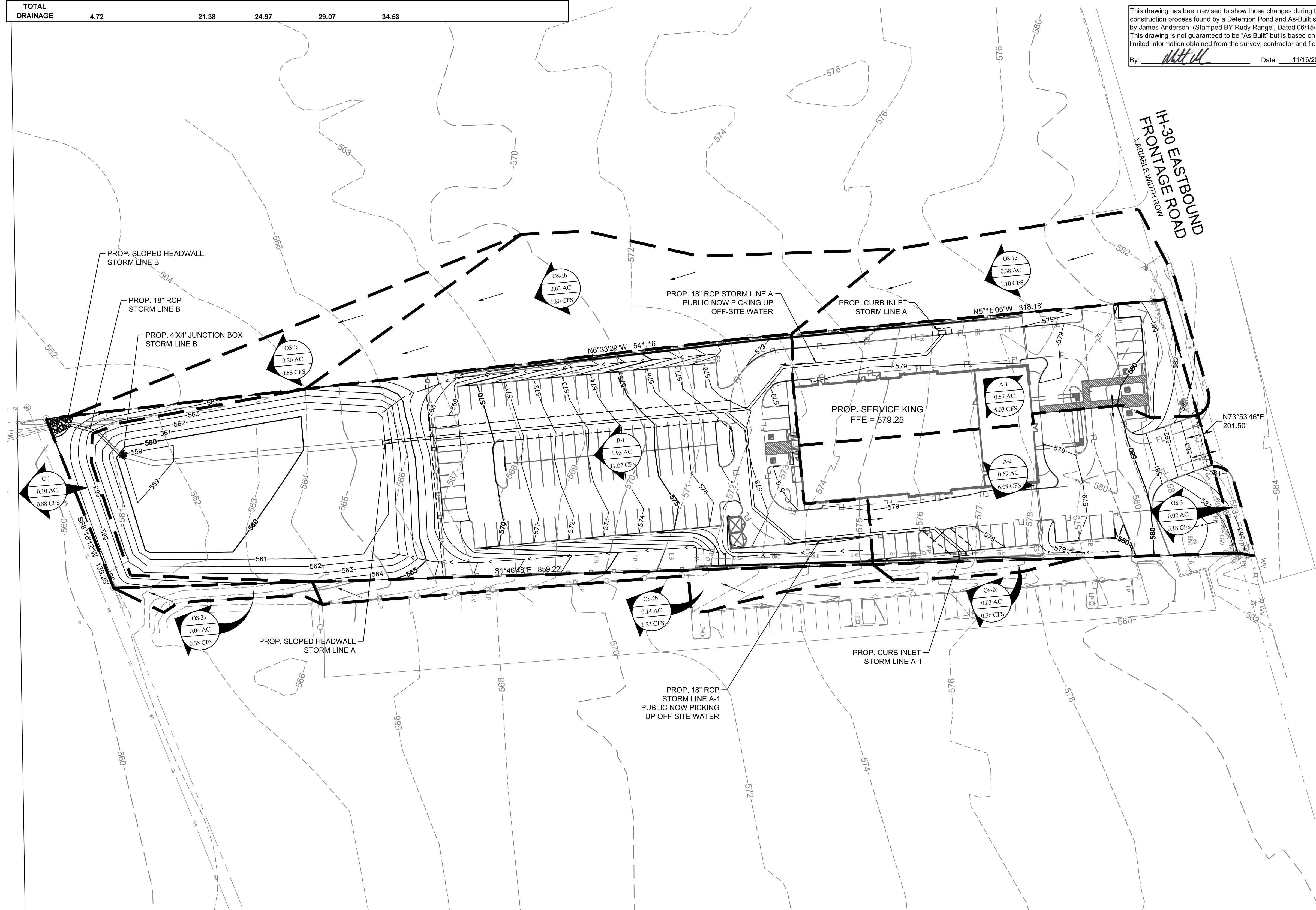
MATT MOORE
95813
LICENSED PROFESSIONAL ENGINEER
11/16/2017

SERVICE KING
1780 E. INTERSTATE 30 FRONTAGE RD
ROCKWALL, TEXAS 75087
SP2016-006

| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |
| | | | |
| | | | |

PROPOSED DRAINAGE AREA MAP

DESIGN: ASD
DRAWN: ASD
CHECKED: CLC
DATE: 11/16/2017
SHEET
C-7
File No. 2015-147



BENCHMARKS

1. CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

**SERVICE KING 1780 E I-30 FRONTAGE RD
ROCKWALL, TX 75087**

LEGAL DESCRIPTION AND OR ADDRESS:
SHERIFF'S TAX DEED
U.V. REAL ESTATE, LP.
DOCUMENT NO. 2012-00466327
3.293 AC

OWNER:
U.V. REAL ESTATE L.P.
8131 LYNDON B JOHNSON FREEWAY
SUITE 770
DALLAS, TEXAS 75251

APPLICANT:
CLAYMOORE ENGINEERING, INC.
1903 CENTRAL DRIVE, SUITE #406
BEDFORD, TX 76021
PH: 817.281.0572

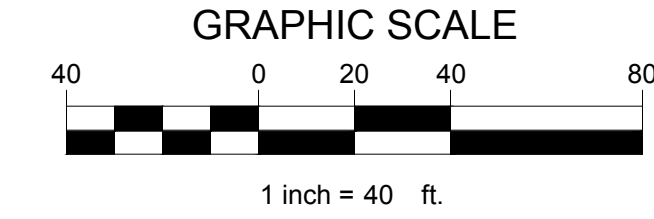
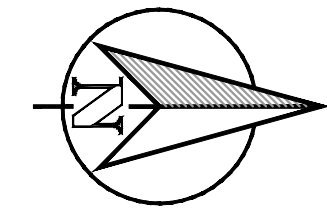
CASE NUMBER
SP2016-006

PLOTTED BY: NATHAN AYRES
 PLOT DATE: 11/16/2017 10:27 AM
 LOCATION: Z:\PROJECTS\PROJECTS\2015-147 SERVICE KING ROCKWALL\CADD\SHEETS\C-7 PROPOSED DRAINAGE AREA MAP.DWG
 LAST SAVED: 8/26/2016 4:52 PM

| LINE | STA. | INCREMENTAL AREA | CUMULATIVE AREA | RUNOFF COEFFICIENT | INCREMENTAL CA | CUMULATIVE CA | INLET TIME | FLOW TIME IN PIPE | TIME OF CONCENTRATION | INTENSITY | DIST | 100 YR STORM DRAIN CALCULATIONS | | | | | | | | | | FRICTION SLOPE | K _s | H _f | HGL | | INVERT | | | | | | | | | |
|---------|---------|------------------|-----------------|--------------------|----------------|---------------|------------|-------------------|-----------------------|-----------|--------|---------------------------------|------|------|-------|--------|-------|-------|-----------|------------|------------------------|------------------------|----------------|----------------|---------------------|-------------------|---------|---------|--------------------------|------------|----------------------|----------------|--------------------------|---------------|---------------|---------------|
| | | | | | | | | | | | | Q ₁₀₀ | DIA. | SPAN | RISE | NUMBER | A | R | ROUGHNESS | PIPE SLOPE | PIPE CAPACITY | | | | V _{design} | V _{full} | Q/QRUII | V/VRUII | d/D | Flow Depth | V _{partial} | H _v | V _{design} ²/2g | INCOMING PIPE | OUTGOING PIPE | INCOMING PIPE |
| | | ACRES | ACRES | | | | | MIN | INHR | FT | CFS | IN | FT | FT | Sq Ft | | | n | % | CFS | Q _{design} /A | V _{full} /FFS | Q/QRUII | V/VRUII | d/D | FT | FPS | FT/FT | V _{design} ²/2g | FT | FT | FT | FT | | | |
| LINE A | 0+00.00 | POND | 1.69 | | | 1.52 | | 0.40 | | | 262.16 | 12.66 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 2.97% | 18.10 | 7.16 | 10.24 | 0.699 | 1.08 | 0.61 | 0.92 | 11.05 | 1.44% | 0.80 | | | 560.60 | | 560.60 | | | |
| | 2+62.16 | LAT A-1 | 0.74 | 0.90 | 0.67 | 0.86 | 10.00 | 0.03 | 10.33 | 9.80 | 18.78 | 6.13 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 2.97% | 18.10 | 3.47 | 10.24 | 0.339 | 0.90 | 0.40 | 0.60 | 9.24 | 0.34% | 0.19 | 0.75 | 0.66 | 569.89 | 564.39 | 568.39 | 568.39 | | |
| | 2+80.94 | 45 DEGREE BEND | 0.00 | 0.90 | 0.00 | 0.86 | 10.00 | 0.07 | 10.30 | 9.80 | 41.06 | 6.13 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 2.97% | 18.10 | 3.47 | 10.24 | 0.339 | 0.90 | 0.40 | 0.60 | 9.24 | 0.34% | 0.19 | 0.35 | 0.10 | 570.44 | 569.95 | 568.94 | 568.94 | | |
| | 3+22.00 | 45 DEGREE BEND | 0.00 | 0.90 | 0.00 | 0.86 | 10.00 | 0.20 | 10.23 | 9.80 | 110.13 | 6.13 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 2.97% | 18.10 | 3.47 | 10.24 | 0.339 | 0.90 | 0.40 | 0.60 | 9.24 | 0.34% | 0.19 | 0.35 | 0.10 | 571.66 | 570.58 | 570.16 | 570.16 | | |
| | 4+32.13 | 45 DEGREE BEND | 0.00 | 0.90 | 0.00 | 0.86 | 10.00 | 0.03 | 10.03 | 9.80 | 19.09 | 6.13 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 2.97% | 18.10 | 3.47 | 10.24 | 0.339 | 0.90 | 0.40 | 0.60 | 9.24 | 0.34% | 0.19 | 0.35 | 0.10 | 574.93 | 572.04 | 573.43 | 573.43 | | |
| | 4+51.22 | DA A-2 | 0.95 | 0.95 | 0.90 | 0.86 | 10.00 | | 10.00 | 9.80 | | | | | | | | | | | | | | | | | | 1.25 | 0.23 | 575.23 | 575.00 | | 574.00 | | | |
| LAT A-1 | 0+00.00 | LINE A | | | | 0.67 | | 0.04 | 10.62 | | 21.92 | 6.53 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 3.26% | 18.97 | 3.69 | 10.73 | 0.344 | 0.90 | 0.40 | 0.60 | 9.68 | 0.38% | 0.21 | | | 569.89 | | 568.39 | | | |
| | 0+21.92 | 45 DEGREE BEND | 0.00 | 0.90 | 0.00 | 0.67 | 10.00 | 0.10 | 10.58 | 9.80 | 60.19 | 6.53 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 3.26% | 18.97 | 3.69 | 10.73 | 0.344 | 0.90 | 0.40 | 0.60 | 9.68 | 0.38% | 0.21 | 0.35 | 0.10 | 570.60 | 569.97 | 569.10 | 569.10 | | |
| | 0+82.11 | 45 DEGREE BEND | 0.00 | 0.90 | 0.00 | 0.67 | 10.00 | 0.07 | 10.48 | 9.80 | 39.99 | 6.53 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 3.26% | 18.97 | 3.69 | 10.73 | 0.344 | 0.90 | 0.40 | 0.60 | 9.68 | 0.38% | 0.21 | 0.35 | 0.10 | 572.56 | 570.83 | 571.06 | 571.06 | | |
| | 1+22.10 | 45 DEGREE BEND | 0.00 | 0.90 | 0.00 | 0.67 | 10.00 | 0.07 | 10.41 | 9.80 | 108.16 | 6.53 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 1.00% | 10.50 | 3.69 | 5.94 | 0.621 | 1.05 | 0.57 | 0.86 | 6.26 | 0.38% | 0.21 | 0.34 | 0.10 | 573.87 | 572.72 | 572.37 | 572.37 | | |
| | 2+30.26 | 45 DEGREE BEND | 0.00 | 0.90 | 0.00 | 0.67 | 10.00 | 0.29 | 10.12 | 9.80 | 27.58 | 6.53 | 18 | 1.5 | 1.77 | 0.375 | 0.013 | 1.00% | 10.50 | 3.69 | 5.94 | 0.621 | 1.05 | 0.57 | 1.50 | 6.26 | 0.38% | 0.21 | 0.35 | 0.10 | 574.95 | 574.28 | 573.45 | 573.45 | | |
| | 2+57.84 | 45 DEGREE BEND | 0.74 | 0.90 | 0.67 | 0.67 | 10.00 | 0.12 | 10.00 | 9.80 | | | | | | | | | | | | | | | | | | 1.25 | 0.26 | 575.32 | 575.05 | | 573.72 | | | |
| LINE B | 0+00.00 | HEADWALL | | | | 2.96 | | 0.06 | 10.16 | | 28.04 | 13.25 | 24 | 2 | 3.14 | 0.500 | 0.013 | 1.11% | 23.83 | 4.22 | 7.59 | 0.556 | 1.02 | 0.53 | 1.06 | 7.77 | 0.34% | 0.28 | | | 560.05 | | 558.05 | | | |
| | 0+28.04 | 30 DEGREE BEND | 0.00 | 0.90 | 0.00 | 2.96 | 10.00 | 0.10 | 10.10 | 9.80 | 24.32 | 13.25 | 24 | 2 | 3.14 | 0.500 | 0.013 | 1.11% | 23.83 | 4.22 | 7.59 | 0.556 | 1.02 | 0.53 | 2.00 | 7.77 | 0.34% | 0.28 | 0.35 | 0.10 | 560.36 | 560.15 | 558.36 | 558.36 | | |
| | 0+52.36 | POND | 3.29 | | | 2.96 | | 0.10 | 10.00 | 9.80 | | | | | | | | | | | | | | | | | | 1.25 | 0.35 | 560.79 | 560.44 | | 558.63 | | | |

This drawing has been revised to show those changes during the construction process found by a Detention Pond and As-Built survey by James Anderson (Stamped BY Rudy Rangel, Dated 06/15/2017). This drawing is not guaranteed to be "As Built" but is based on the limited information obtained from the survey, contractor and field visit.

By: *Matt Moore* Date: 11/16/2017



LEGEND

- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- PROPOSED GRATE INLET
- PROPOSED CURB INLET

- NOTES:**
- ALL WALLS OF 3' TO BE DESIGNED (SIGNED/SEALED PLANS) BY A PROFESSIONAL ENGINEER. SAME ENGINEER TO SUBMIT A SIGNED AND SEALED LETTER OF CONCURRENCE/APPROVAL OF THE CONSTRUCTION OF THE WALL PRIOR TO CITY ACCEPTANCE. CITY INSPECTOR DOES NOT INSPECT WALL.
 - PROPOSED DRIVEWAY TO HAVE 6" RIDGE TO PREVENT WATER FROM ENTERING SITE ALONG R.O.W.

BENCHMARKS

- CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

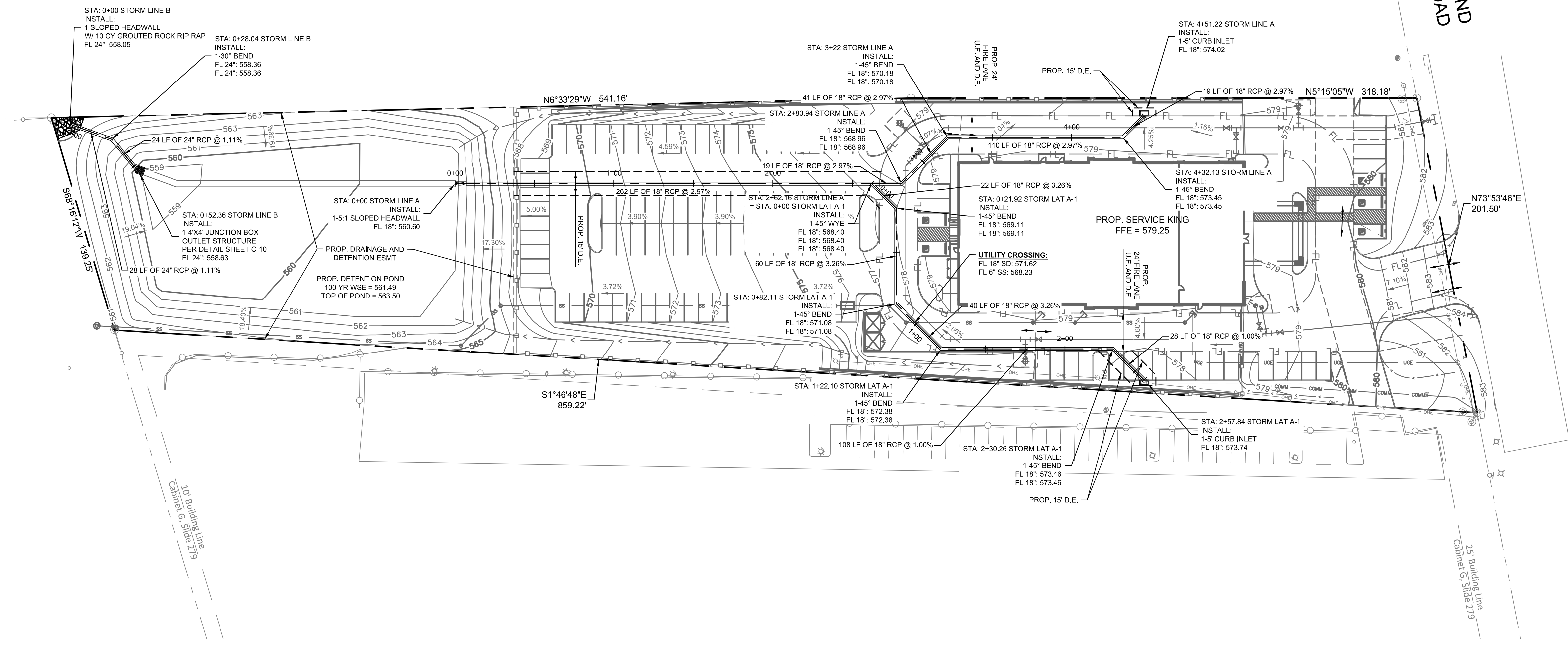
**SERVICE KING 1780 E I-30 FRONTAGE RD
ROCKWALL, TX 75087**

LEGAL DESCRIPTION AND OR ADDRESS:
SHERIFF'S TAX DEED
U.V. REAL ESTATE, LP.
DOCUMENT NO. 2012-00466327
3.293 AC

OWNER:
U.V. REAL ESTATE L.P.
8131 LYNDON B JOHNSON FREEWAY
SUITE 770
DALLAS, TEXAS 75251

APPLICANT:
CLAYMOORE ENGINEERING, INC.
1903 CENTRAL DRIVE, SUITE #406
BEDFORD, TX 76021
PH: 817.281.0572

CASE NUMBER
SP2016-006



PLOTTED BY: NATHAN AYRES
 PLOT DATE: 11/16/2017 10:28 AM
 LOCATION: Z:\PROJECTS\PROJECTS\2015-147 SERVICE KING ROCKWALL\CADD\SHEETS\C-8 STORM DRAIN PLAN.DWG
 LAST SAVED: 8/29/2016 10:25 AM

TEXAS REGISTRATION #14199

PHONE: 817.281.0572
WWW.CLAYMOOREENGINEERING.COM

11/16/2017

SERVICE KING
1780 E. INTERSTATE 30 FRONTAGE RD
ROCKWALL, TEXAS 75087
SP2016-006

| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |

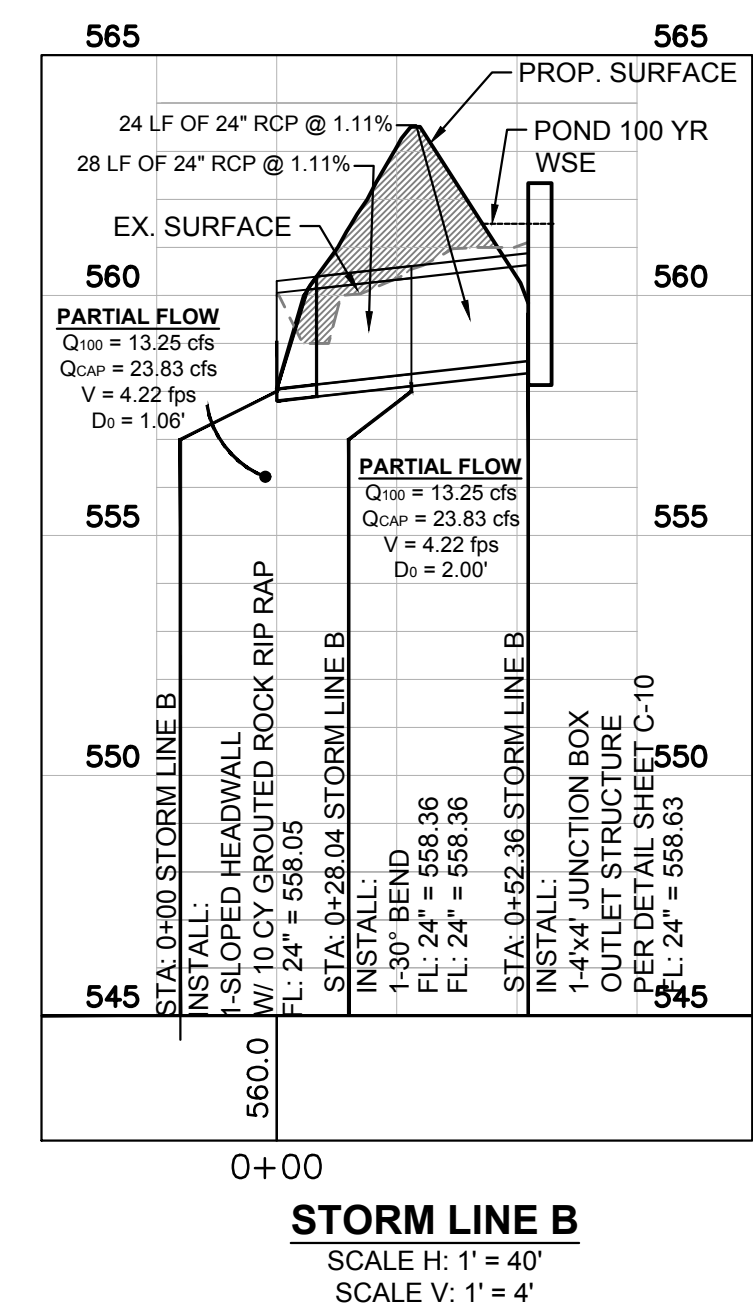
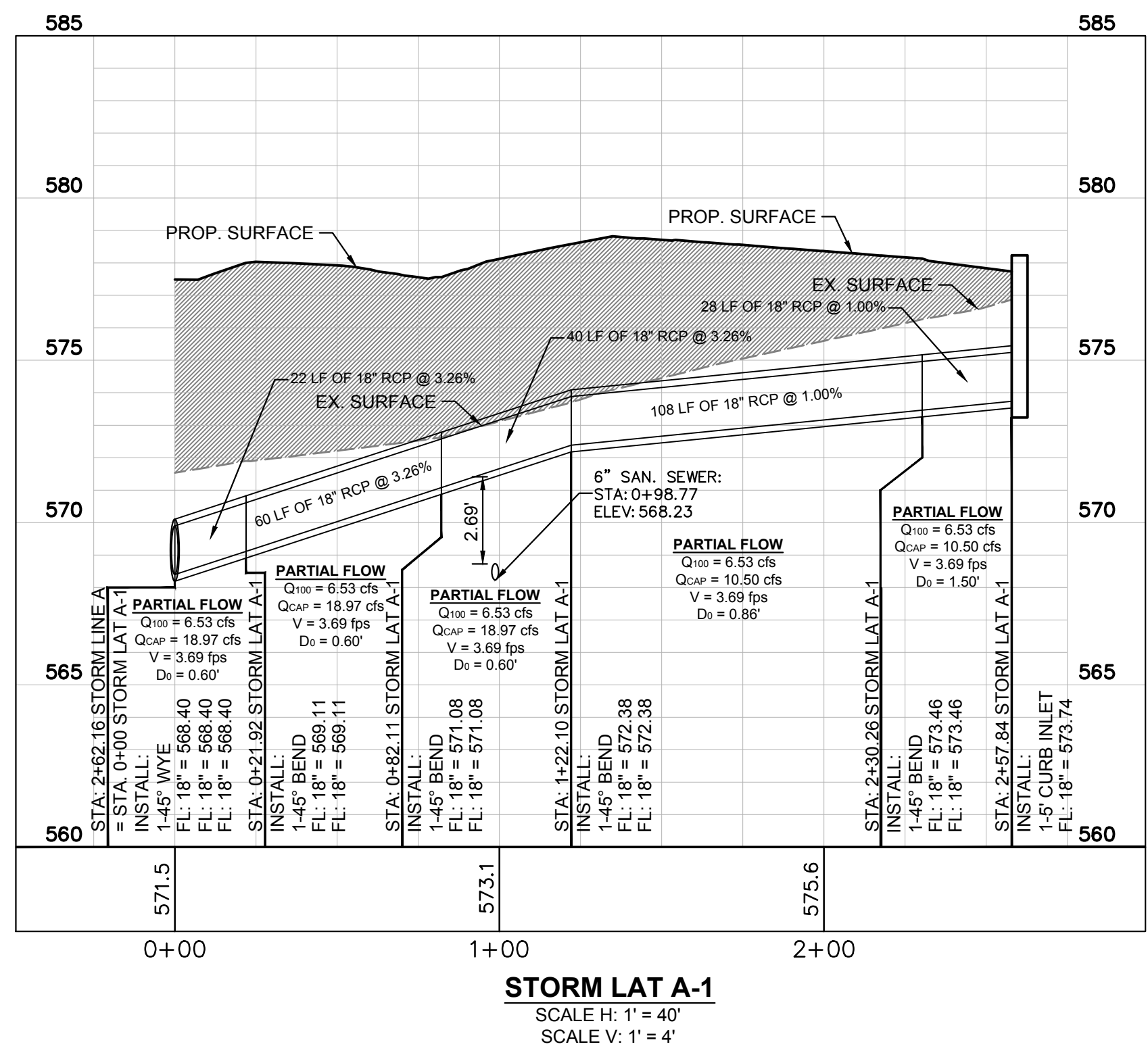
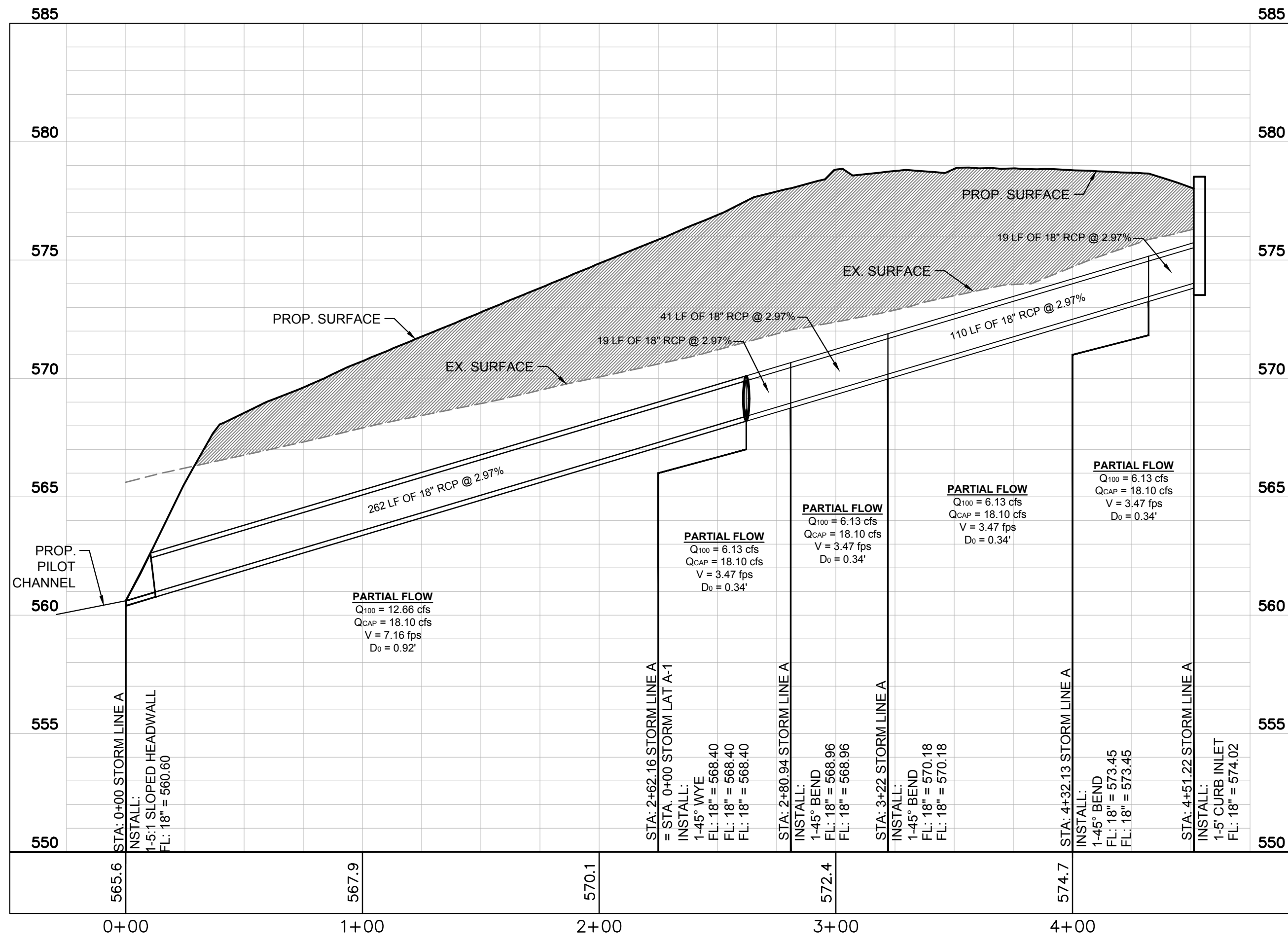
STORM DRAIN PLAN

DESIGN: ASD
 DRAWN: ASD
 CHECKED: CLC
 DATE: 11/16/2017

SHEET
C-8

File No. 2015-147

PLOTTED BY: NATHAN AYRES
 PLOT DATE: 11/16/2017 10:29 AM
 LOCATION: Z:\PROJECTS\PROJECTS\2015-147 SERVICE KING ROCKWALL\CADD\SHEETS\C-9 STORM DRAIN PROFILES.DWG
 LAST SAVED: 8/26/2016 5:06 PM



This drawing has been revised to show those changes during the construction process found by a Detention Pond and As-Built survey by James Anderson (Stamped BY Rudy Rangel, Dated 06/15/2017). This drawing is not guaranteed to be "As Built" but is based on the limited information obtained from the survey, contractor and field visit.
 By: *[Signature]* Date: 11/16/2017



SERVICE KING
 1780 E. INTERSTATE 30 FRONTAGE RD
 ROCKWALL, TEXAS 75087
 SP2016-006

BENCHMARKS
 1. CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

SERVICE KING 1780 E I-30 FRONTAGE RD
ROCKWALL, TX 75087
 LEGAL DESCRIPTION AND OR ADDRESS:
 SHERIFF'S TAX DEED
 U.V. REAL ESTATE, LP.
 DOCUMENT NO. 2012-00466327
 3.293 AC
 OWNER:
 U.V. REAL ESTATE L.P.
 8131 LYNDON B JOHNSON FREEWAY
 SUITE 770
 DALLAS, TEXAS 75251

APPLICANT:
 CLAYMOORE ENGINEERING, INC.
 1903 CENTRAL DRIVE, SUITE #406
 BEDFORD, TX 76021
 PH: 817.281.0572

CASE NUMBER
 SP2016-006

| No. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |

STORM DRAIN PROFILES
 SHEET
C-9
 File No. 2015-147

Detention Pond Calculations (100 YEAR EVENT)
Modified Rational Method

| | |
|-------------------------|-------------------|
| Required Storage Volume | 31,769 cubic-feet |
| 0.729 acre-feet | |
| Provided Storage Volume | 31,769 cubic-feet |
| 0.729 acre-feet | |

Onsite Existing Conditions

| | |
|-----------|------------|
| Area | 3.29 acres |
| Time (Tc) | 20 minutes |
| C value | 0.35 |
| I-100yr | 8.30 in/hr |
| Q100yr | 9.56 cfs |
| Q100yr | 0.88 cfs |
| Q100yr | 8.68 cfs |
| Q100yr | 4.57 cfs |
| Q100yr | 13.25 cfs |
| Q100yr | 13.25 cfs |

Allowable Release Rate

| | |
|---|-----------|
| By-passing Pond (DA C-1) | 0.88 cfs |
| Allowable Release Rate | 8.68 cfs |
| Passing Thru Pond Undetained (DA OS-1b, DA OS-1c, DA OS-2b, DA OS-2c & DA OS-3) | 4.57 cfs |
| Total Allowable Release Rate | 13.25 cfs |
| Proposed Release Rate | 13.25 cfs |

Onsite Prop Conditions Pond 1

| | |
|-----------|------------|
| Area | 3.29 acres |
| Time (Tc) | 10 minutes |
| C value | 0.90 |
| I-100yr | 9.80 in/hr |
| Q100yr | 29.02 cfs |

Total Drainage Area including on and offsite areas

Developed Runoff

| Runoff per Storm Event - Developed | | | | | Inflow per Storm Event | | |
|------------------------------------|---------|---------|-----------|--------------|------------------------|--------|---------------------------|
| Time (min.) | I-100yr | C value | Area (ac) | Runoff (cfs) | Storm Event | Runoff | Inflow (ft ³) |
| 10 | 9.80 | 0.90 | 3.29 | 29.02 | 10 | 29.02 | 17,411 |
| 15 | 9.00 | 0.90 | 3.29 | 26.65 | 15 | 26.65 | 23,984 |
| 20 | 8.30 | 0.90 | 3.29 | 24.58 | 20 | 24.58 | 29,492 |
| 30 | 6.90 | 0.90 | 3.29 | 20.43 | 30 | 20.43 | 36,776 |
| 35 | 6.40 | 0.90 | 3.29 | 18.95 | 40 | 17.17 | 41,217 |
| 40 | 5.80 | 0.90 | 3.29 | 17.17 | 50 | 14.81 | 44,415 |
| 50 | 5.00 | 0.90 | 3.29 | 14.81 | 60 | 13.32 | 47,968 |
| 60 | 4.50 | 0.90 | 3.29 | 13.32 | 70 | 11.84 | 49,745 |
| 70 | 4.00 | 0.90 | 3.29 | 11.84 | 80 | 10.36 | 52,587 |
| 80 | 3.70 | 0.90 | 3.29 | 10.36 | 90 | 9.18 | 55,963 |
| 90 | 3.50 | 0.90 | 3.29 | 10.36 | 100 | 10.07 | 60,404 |
| 100 | 3.40 | 0.90 | 3.29 | 10.07 | 110 | 9.48 | 62,536 |
| 110 | 3.20 | 0.90 | 3.29 | 9.48 | | | |

Max Allowable Outflow per Storm Event

Detention Volume Required

| Storm | Time | Release | Outflow (ft ³) | Storm | Inflow | Outflow | Storage (ft ³) | Storage (acre-ft) |
|-------|------|---------|----------------------------|-------|--------|---------|----------------------------|-------------------|
| 10 | 20 | 8.68 | 5,206 | 10 | 17,411 | 5,206 | 12,204 | 0.280 |
| 15 | 25 | 8.68 | 6,508 | 15 | 23,984 | 6,508 | 17,476 | 0.401 |
| 20 | 30 | 8.68 | 7,810 | 20 | 29,492 | 7,810 | 21,682 | 0.498 |
| 30 | 40 | 8.68 | 10,413 | 30 | 36,776 | 10,413 | 26,363 | 0.605 |
| 35 | 45 | 8.68 | 11,715 | 35 | 39,796 | 11,715 | 28,081 | 0.645 |
| 40 | 50 | 8.68 | 13,016 | 40 | 41,217 | 13,016 | 28,201 | 0.647 |
| 50 | 60 | 8.68 | 15,619 | 50 | 44,415 | 15,619 | 28,796 | 0.661 |
| 60 | 70 | 8.68 | 18,223 | 60 | 47,968 | 18,223 | 29,746 | 0.683 |
| 70 | 80 | 8.68 | 20,826 | 70 | 49,745 | 20,826 | 29,919 | 0.684 |
| 80 | 90 | 8.68 | 23,429 | 80 | 52,587 | 23,429 | 29,158 | 0.669 |
| 90 | 100 | 8.68 | 26,032 | 90 | 55,963 | 26,032 | 29,931 | 0.687 |
| 100 | 110 | 8.68 | 28,636 | 100 | 60,404 | 28,636 | 31,769 | 0.729 |
| 110 | 120 | 8.68 | 31,239 | 110 | 62,536 | 31,239 | 31,298 | 0.718 |

Detention Pond Calculations (25 YEAR EVENT)
Modified Rational Method

| | |
|-------------------------|-------------------|
| Required Storage Volume | 26,150 cubic-feet |
| 0.600 acre-feet | |
| Provided Storage Volume | 26,150 cubic-feet |
| 0.600 acre-feet | |

Onsite Existing Conditions

| | |
|-----------|------------|
| Area | 3.29 acres |
| Time (Tc) | 20 minutes |
| C value | 0.35 |
| I-25yr | 6.60 in/hr |
| Q25yr | 7.60 cfs |
| Q25yr | 0.75 cfs |
| Q25yr | 6.85 cfs |
| Q25yr | 3.73 cfs |
| Q25yr | 10.58 cfs |
| Q25yr | 10.47 cfs |

Allowable Release Rate

| | |
|---|-----------|
| By-passing Pond (DA C-1) | 0.75 cfs |
| Allowable Release Rate | 6.85 cfs |
| Passing Thru Pond Undetained (DA OS-1b, DA OS-1c, DA OS-2b, DA OS-2c & DA OS-3) | 3.73 cfs |
| Total Allowable Release Rate | 10.58 cfs |
| Proposed Release Rate | 10.47 cfs |

Onsite Proposed Conditions

| | |
|-----------|------------|
| Area | 3.29 acres |
| Time (Tc) | 10 minutes |
| C value | 0.90 |
| I-25yr | 8.30 in/hr |
| Q25yr | 24.58 cfs |

Total Drainage Area including on and offsite areas

Average C Value for on and offsite areas combined

Developed Runoff

| Runoff per Storm Event - Developed | | | | | Inflow per Storm Event | | |
|------------------------------------|--------|---------|-----------|--------------|------------------------|--------|---------------------------|
| Time (min.) | I-25yr | C value | Area (ac) | Runoff (cfs) | Storm Event | Runoff | Inflow (ft ³) |
| 10 | 8.30 | 0.90 | 3.29 | 24.58 | 10 | 24.58 | 14,746 |
| 15 | 7.50 | 0.90 | 3.29 | 22.21 | 15 | 22.21 | 19,987 |
| 20 | 6.60 | 0.90 | 3.29 | 19.54 | 20 | 19.54 | 23,451 |
| 30 | 5.50 | 0.90 | 3.29 | 16.29 | 35 | 14.81 | 31,091 |
| 35 | 5.00 | 0.90 | 3.29 | 14.81 | 40 | 13.62 | 32,689 |
| 40 | 4.60 | 0.90 | 3.29 | 13.62 | 50 | 11.84 | 35,532 |
| 50 | 4.00 | 0.90 | 3.29 | 11.84 | 60 | 10.36 | 37,309 |
| 60 | 3.50 | 0.90 | 3.29 | 10.36 | 70 | 9.18 | 41,039 |
| 70 | 3.30 | 0.90 | 3.29 | 9.77 | 80 | 9.18 | 44,060 |
| 80 | 3.10 | 0.90 | 3.29 | 9.18 | 90 | 8.59 | 46,369 |
| 90 | 2.90 | 0.90 | 3.29 | 8.59 | 100 | 7.99 | 47,968 |
| 100 | 2.70 | 0.90 | 3.29 | 7.99 | 110 | 7.40 | 48,857 |
| 110 | 2.50 | 0.90 | 3.29 | 7.40 | | | |

Max Allowable Outflow per Storm Event

Detention Volume Required

| Storm | Time | Release | Outflow (ft ³) | Storm | Inflow | Outflow | Storage (ft ³) | Storage (acre-ft) |
|-------|------|---------|----------------------------|-------|--------|---------|----------------------------|-------------------|
| 10 | 20 | 6.74 | 4,044 | 10 | 14,746 | 4,044 | 10,702 | 0.246 |
| 15 | 25 | 6.74 | 5,055 | 15 | 19,987 | 5,055 | 14,932 | 0.343 |
| 20 | 30 | 6.74 | 6,066 | 20 | 23,451 | 6,066 | 17,385 | 0.399 |
| 30 | 40 | 6.74 | 8,088 | 30 | 29,314 | 8,088 | 21,226 | 0.487 |
| 35 | 45 | 6.74 | 9,099 | 35 | 31,091 | 9,099 | 21,992 | 0.505 |
| 40 | 50 | 6.74 | 10,110 | 40 | 32,689 | 10,110 | 22,880 | 0.518 |
| 50 | 60 | 6.74 | 12,132 | 50 | 35,532 | 12,132 | 23,400 | 0.537 |
| 60 | 70 | 6.74 | 14,154 | 60 | 37,309 | 14,154 | 23,155 | 0.532 |
| 70 | 80 | 6.74 | 16,176 | 70 | 41,039 | 16,176 | 24,964 | 0.571 |
| 80 | 90 | 6.74 | 18,198 | 80 | 44,060 | 18,198 | 25,862 | 0.594 |
| 90 | 100 | 6.74 | 20,220 | 90 | 46,369 | 20,220 | 26,150 | 0.600 |
| 100 | 110 | 6.74 | 22,242 | 100 | 47,968 | 22,242 | 25,727 | 0.591 |
| 110 | 120 | 6.74 | 24,264 | 110 | 48,857 | 24,264 | 24,593 | 0.565 |

Detention Pond Calculations (10 YEAR EVENT)
Modified Rational Method

| | |
|-------------------------|-------------------|
| Required Storage Volume | 23,478 cubic-feet |
| 0.539 acre-feet | |
| Provided Storage Volume | 23,478 cubic-feet |
| 0.539 acre-feet | |

Onsite Existing Conditions

| | |
|-----------|------------|
| Area | 3.29 acres |
| Time (Tc) | 20 minutes |
| C value | 0.35 |
| I-10yr | 5.90 in/hr |
| Q10yr | 6.79 cfs |
| Q10yr | 0.65 cfs |
| Q10yr | 6.14 cfs |
| Q10yr | 3.27 cfs |
| Q10yr | 9.41 cfs |
| Q10yr | 9.23 cfs |

Allowable Release Rate

| | |
|---|----------|
| By-passing Pond (DA C-1) | 0.65 cfs |
| Allowable Release Rate | 6.14 cfs |
| Passing Thru Pond Undetained (DA OS-1b, DA OS-1c, DA OS-2b, DA OS-2c & DA OS-3) | 3.27 cfs |
| Total Allowable Release Rate | 9.41 cfs |
| Proposed Release Rate | 9.23 cfs |

Onsite Proposed Conditions

| | |
|-----------|------------|
| Area | 3.29 acres |
| Time (Tc) | 10 minutes |
| C value | 0.90 |
| I-10yr | 7.10 in/hr |
| Q10yr | 21.02 cfs |

Total Drainage Area including on and offsite areas

Average C Value for on and offsite areas combined

Developed Runoff

| Runoff per Storm Event - Developed | | | | | Inflow per Storm Event | | |
|------------------------------------|--------|---------|-----------|--------------|------------------------|--------|---------------------------|
| Time (min.) | I-10yr | C value | Area (ac) | Runoff (cfs) | Storm Event | Runoff | Inflow (ft ³) |
| 10 | 7.10 | 0.90 | 3.29 | 21.02 | 10 | 21.02 | 12,614 |
| 15 | 6.50 | 0.90 | 3.29 | 19.25 | 15 | 19.25 | 17,322 |
| 20 | 5.90 | 0.90 | 3.29 | 17.47 | 20 | 17.47 | 20,964 |
| 30 | 4.80 | 0.90 | 3.29 | 14.21 | 35 | 13.32 | 27,981 |
| 35 | 4.50 | 0.90 | 3.29 | 13.32 | 40 | 11.84 | 29,426 |
| 40 | 4.00 | 0.90 | 3.29 | 11.84 | 50 | 10.36 | 31,091 |
| 50 | 3.50 | 0.90 | 3.29 | 10.36 | 60 | 8.88 | 31,979 |
| 60 | 3.00 | 0.90 | 3.29 | 8.88 | 70 | 8.29 | 34,821 |
| 70 | 2.80 | 0.90 | 3.29 | 8.29 | 80 | 7.70 | 36,953 |
| 80 | 2.60 | 0.90 | 3.29 | 7.70 | 90 | 7.40 | 39,974 |
| 90 | 2.50 | 0.90 | 3.29 | 7.40 | 100 | 7.11 | 42,638 |
| 100 | 2.40 | 0.90 | 3.29 | 7.11 | 110 | 6.81 | 44,948 |
| 110 | 2.30 | 0.90 | 3.29 | 6.81 | | | |

Max Allowable Outflow per Storm Event

Detention Volume Required

| Storm | Time | Release | Outflow (ft ³) | Storm | Inflow | Outflow | Storage (ft ³) | Storage (acre-ft) |
|-------|------|---------|----------------------------|-------|--------|---------|----------------------------|-------------------|
| 10 | 20 | 5.96 | 3,578 | 10 | 12,614 | 3,578 | 9,036 | 0.207 |
| 15 | 25 | 5.96 | 4,473 | 15 | 17,322 | 4,473 | 12,849 | 0.295 |
| 20 | 30 | 5.96 | 5,367 | 20 | 20,964 | 5,367 | 15,596 | 0.358 |
| 30 | 40 | 5.96 | 7,157 | 30 | 25,583 | 7,157 | 18,426 | 0.423 |
| 35 | 45 | 5.96 | 8,051 | 35 | 27,981 | 8,051 | 19,930 | 0.458 |
| 40 | 50 | 5.96 | 8,946 | 40 | 28,426 | 8,946 | 19,480 | 0.447 |
| 50 | 60 | 5.96 | 10,735 | 50 | 31,091 | 10,735 | 20,356 | 0.467 |
| 60 | 70 | 5.96 | 12,524 | 60 | 31,979 | 12,524 | 19,455 | 0.447 |
| 70 | 80 | 5.96 | 14,313 | 70 | 34,821 | 14,313 | 20,508 | 0.471 |
| 80 | 90 | 5.96 | 16,102 | 80 | 36,953 | 16,102 | 20,851 | 0.479 |
| 90 | 100 | 5.96 | 17,892 | 90 | 39,974 | 17,892 | 22,082 | 0.507 |
| 100 | 110 | 5.96 | 19,681 | 100 | 42,638 | 19,681 | 22,958 | 0.527 |
| 110 | 120 | 5.96 | 21,470 | 110 | 44,948 | 21,470 | 23,478 | 0.539 |

Detention Pond Calculations (5 YEAR EVENT)
Modified Rational Method

| | |
|-------------------------|-------------------|
| Required Storage Volume | 19,642 cubic-feet |
| 0.451 acre-feet | |
| Provided Storage Volume | 19,642 cubic-feet |
| 0.451 acre-feet | |

Onsite Existing Conditions

| | |
|-----------|------------|
| Area | 3.29 acres |
| Time (Tc) | 20 minutes |
| C value | 0.35 |
| I-5yr | 4.90 in/hr |
| Q5yr | 5.84 cfs |
| Q5yr | 0.55 cfs |
| Q5yr | 5.09 cfs |
| Q5yr | 2.75 cfs |
| Q5yr | 7.84 cfs |
| Q5yr | 7.58 cfs |

Allowable Release Rate

| | |
|---|----------|
| By-passing Pond (DA C-1) | 0.55 cfs |
| Allowable Release Rate | 5.09 cfs |
| Passing Thru Pond Undetained (DA OS-1b, DA OS-1c, DA OS-2b, DA OS-2c & DA OS-3) | 2.75 cfs |
| Total Allowable Release Rate | 7.84 cfs |
| Proposed Release Rate | 7.58 cfs |

Onsite Proposed Conditions

| | |
|-----------|------------|
| Area | 3.29 acres |
| Time (Tc) | 10 minutes |
| C value | 0.90 |
| I-5yr | 6.10 in/hr |
| Q5yr | 18.06 cfs |

Total Drainage Area including on and offsite areas

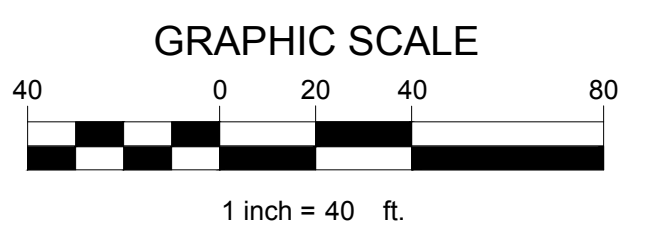
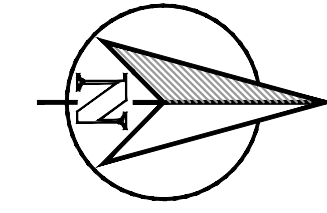
Average C Value for on and offsite areas combined

Developed Runoff

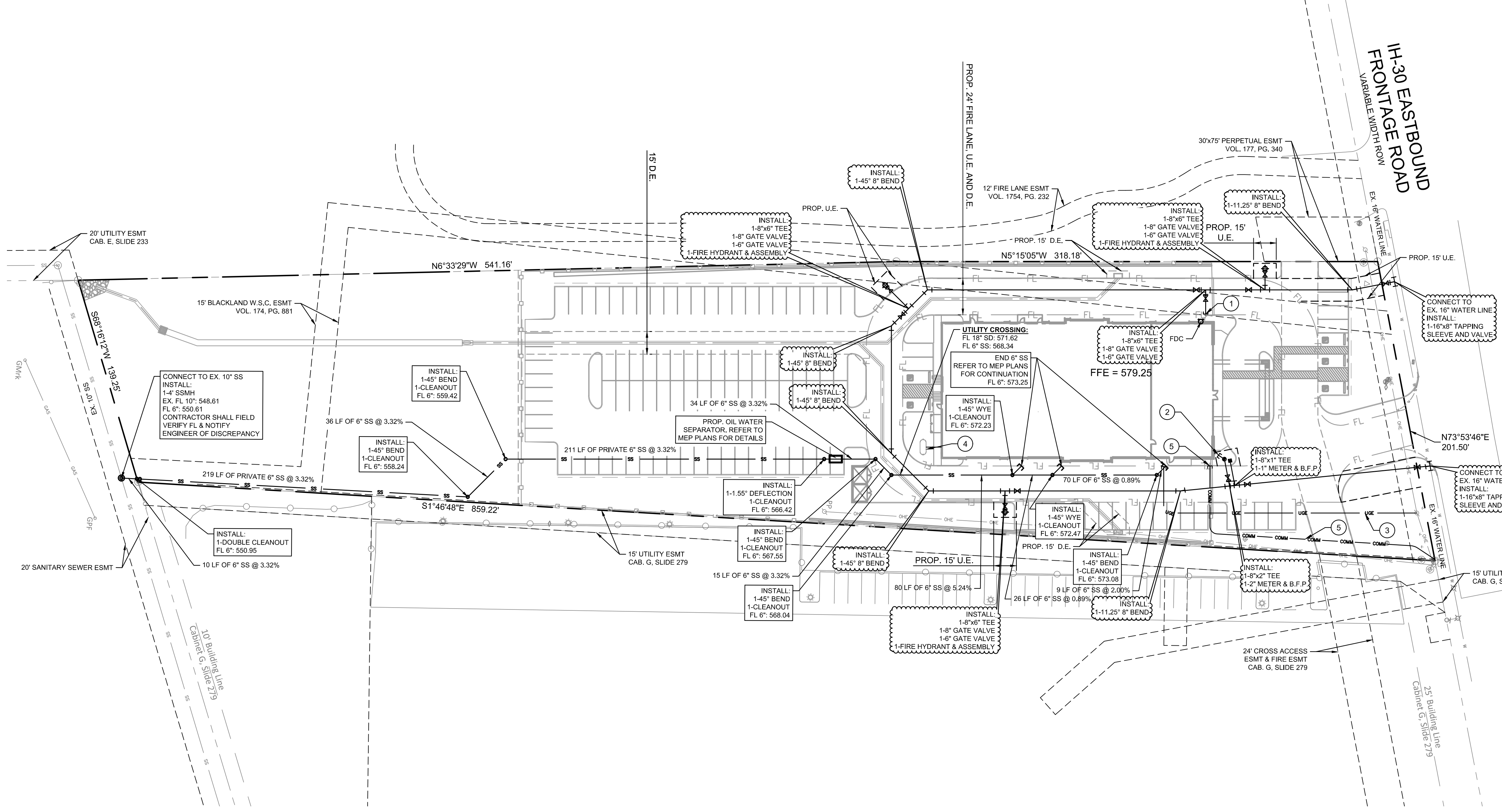
| Runoff per Storm Event - Developed | | | | | Inflow per Storm Event | | |
|------------------------------------|-------|---------|-----------|--------------|------------------------|--------|---------------------------|
| Time (min.) | I-5yr | C value | Area (ac) | Runoff (cfs) | Storm Event | Runoff | Inflow (ft ³) |
| 10 | 6.10 | 0.90 | 3.29 | 18.06 | 10 | 18.06 | 10,837 |
| 15 | 5.50 | 0.90 | 3.29 | 16.29 | 15 | 16.29 | 14,657 |
| | | | | | | | |

| No. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |
| | | | |
| | | | |

This drawing has been revised to show those changes during the construction process found by a Detention Pond and As-Built survey by James Anderson (Stamped BY Rudy Rangel, Dated 06/15/2017). This drawing is not guaranteed to be "As Built" but is based on the limited information obtained from the survey, contractor and field visit.
 By: *Matt Moore* Date: 11/16/2017



| LEGEND | |
|------------|---|
| — W — | EXISTING WATER MAIN |
| — S — (S) | EXISTING SANITARY SEWER AND MANHOLE |
| — W — | PROPOSED WATER LINE |
| — SS — (O) | PROPOSED SANITARY SEWER LINE AND CLEAN OUT |
| — UOE — | PROPOSED UNDERGROUND ELECTRIC |
| — UGT — | PROPOSED UNDERGROUND COMMUNICATION LINE |
| — GAS — | PROPOSED UNDERGROUND GAS LINE |
| (1) | END PRIVATE 6" FIRE LINE. REFER TO MEP PLANS FOR CONTINUATION. |
| (2) | END PRIVATE 2" DOMESTIC LINE. REFER TO MEP PLANS FOR CONTINUATION. |
| (3) | PROPOSED ELECTRIC SERVICE. CONTACT SERVICE PROVIDER FOR COORDINATION |
| (4) | PROPOSED PROPANE TANK. CONTACT MEP FOR COORDINATION |
| (5) | PROPOSED COMMUNICATION SERVICE. CONTACT SERVICE PROVIDER FOR COORDINATION |



BENCHMARKS

1. CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

- NOTES:**
1. WATER LINES TO BE CLASS 200 SDR-14.
 2. ALL MANHOLES TO BE RAVEN LINED OR APPROVED EQUAL.
 3. CONTRACTOR TO INSTALL BLUE EMS DISKS ON THE WATER LINE AT EVERY CHANGE IN DIRECTION, VALVE, SERVICE AND 200'.
 4. CONTRACTOR TO INSTALL GREEN EMS DISK ON MANHOLE.

**SERVICE KING 1780 E I-30 FRONTAGE RD
 ROCKWALL, TX 75087**

LEGAL DESCRIPTION AND OR ADDRESS:
**SHERIFF'S TAX DEED
 U.V. REAL ESTATE, LP.
 DOCUMENT NO. 2012-00466327
 3.293 AC**

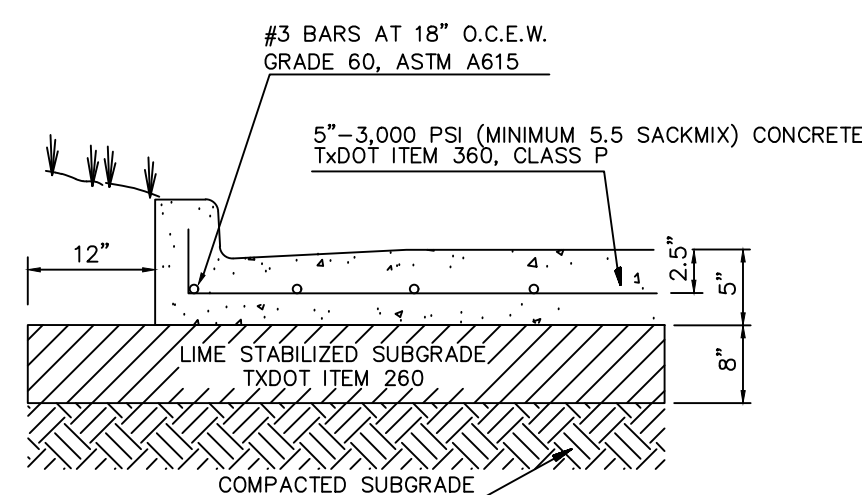
OWNER:
 U.V. REAL ESTATE L.P.
 8131 LYNDON B JOHNSON FREEWAY
 SUITE 770
 DALLAS, TEXAS 75251

APPLICANT:
 CLAYMOORE ENGINEERING, INC.
 1903 CENTRAL DRIVE, SUITE #406
 BEDFORD, TX 76021
 PH: 817.281.0572

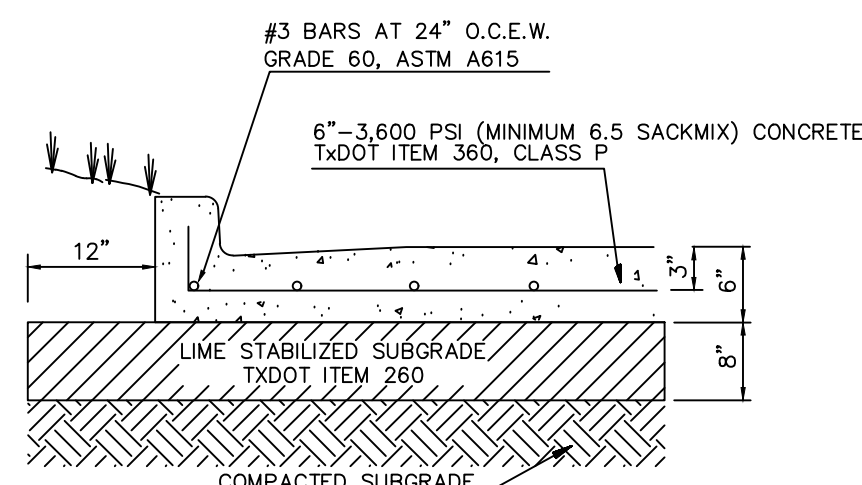
CASE NUMBER
SP2016-006

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 PLOT DATE: 11/16/2017 12:16 PM
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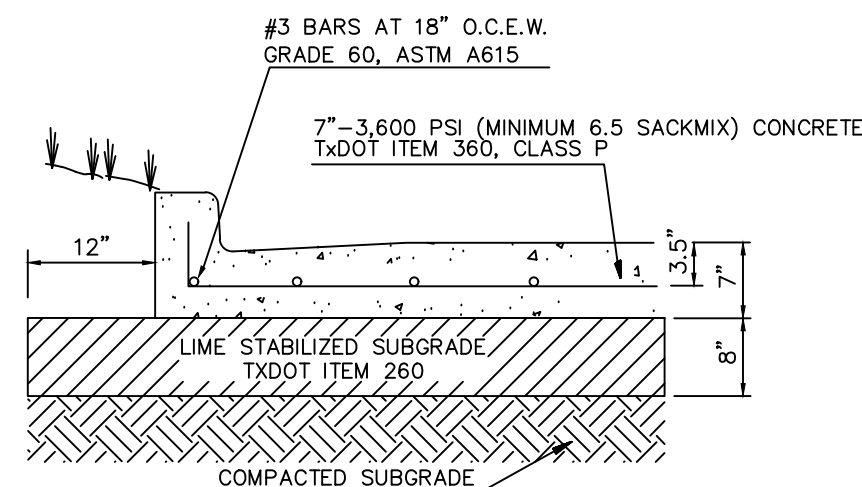
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LIGHT DUTY CONCRETE PAVING



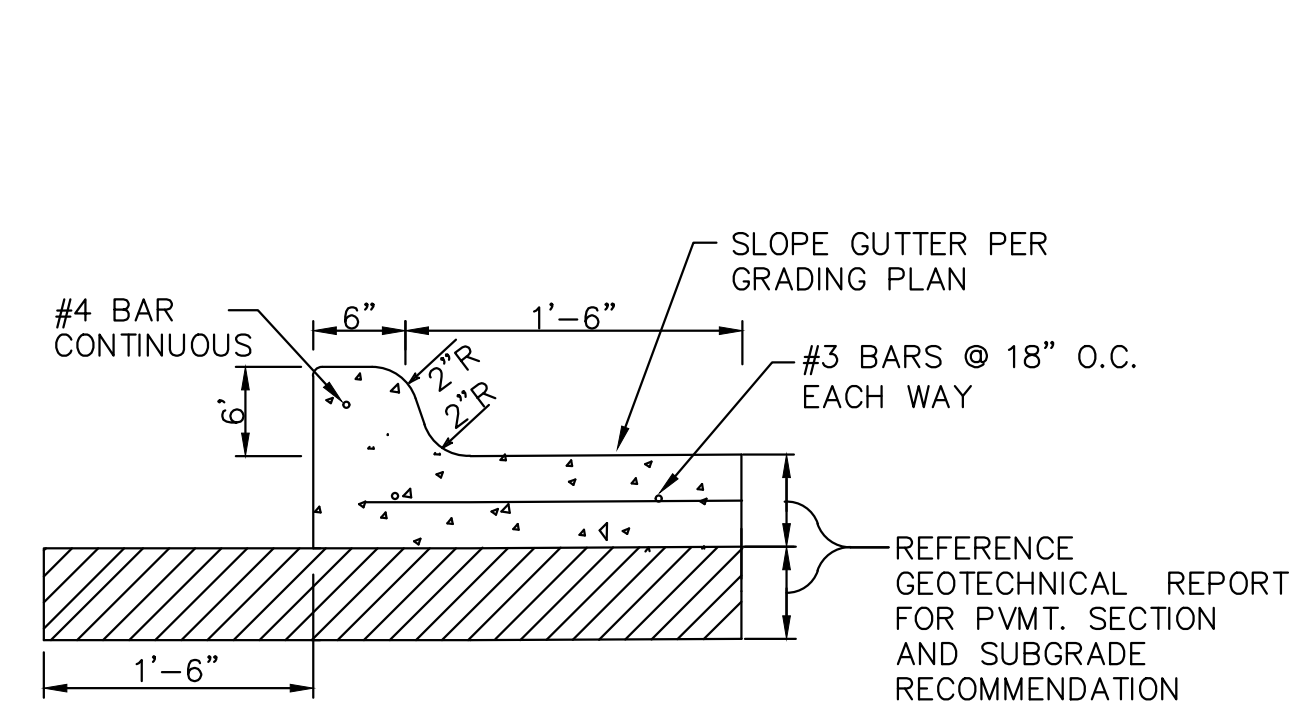
HEAVY DUTY CONCRETE PAVING



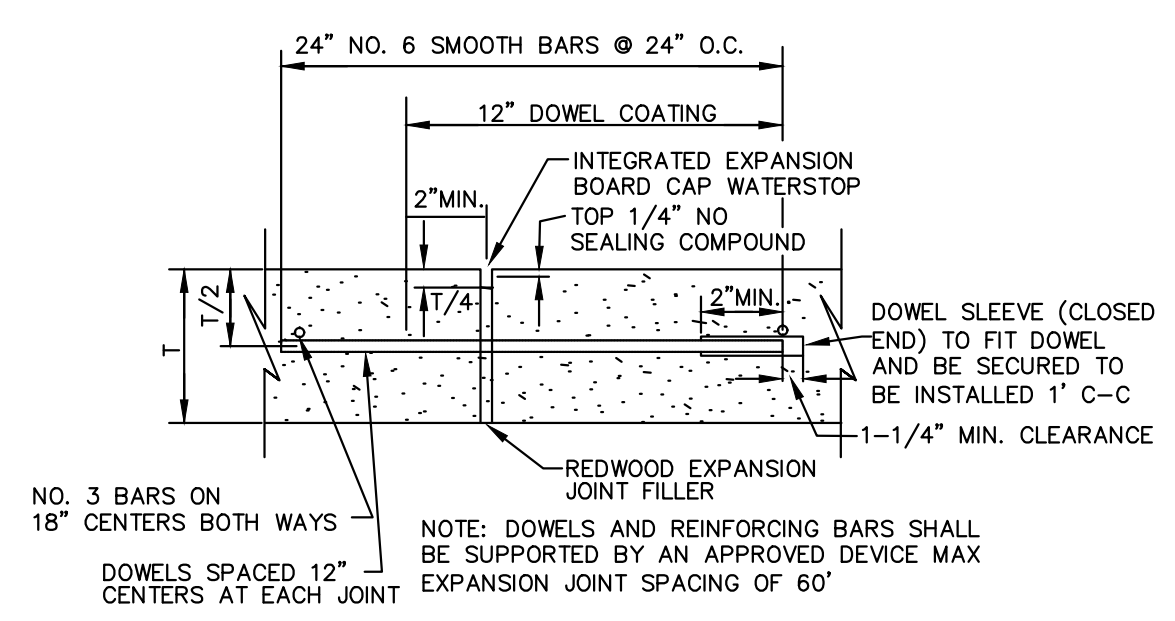
DUMPSTER AREA CONCRETE PAVING

- GENERAL PAVING NOTES**
- LIME STABILIZATION: APPLY AND MIX HYDRATED LIME AT A MINIMUM RATE OF 8% FOR AN 8" STABILIZATION DEPTH AND SHALL BE COMPACTED TO AT LEAST 95% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698).
 - NON-FIRELANE CONCRETE PAVING SHALL HAVE A MINIMUM 3,000 PSI COMPRESSIVE STRENGTH. ALL FIRELANE CONCRETE PAVING SHALL HAVE A MINIMUM 3,500 PSI COMPRESSIVE STRENGTH. JOINTS IN CONCRETE PAVING SHALL BE FORMED AT A MAXIMUM OF 15 FEET. CONCRETE SHALL INCLUDE AIR ENTRAINMENT OF 4.5+1.5 PERCENT. ALL OTHER JOINT SPACING SHALL BE INSTALLED PER PROJECT SPECIFICATIONS.
 - JOINTS IN CONCRETE PAVEMENT SHALL NOT EXCEED 15 FOOT SPACING.
 - FOR COMPLETE PAVEMENT AND SUBGRADE RECOMMENDATIONS, REFER TO GEOTECH REPORT 95155152 BY TERRACON CONSULTANTS, INC. DATED JANUARY 19, 2016.
 - NO SAND ALLOWED UNDER PAVING.

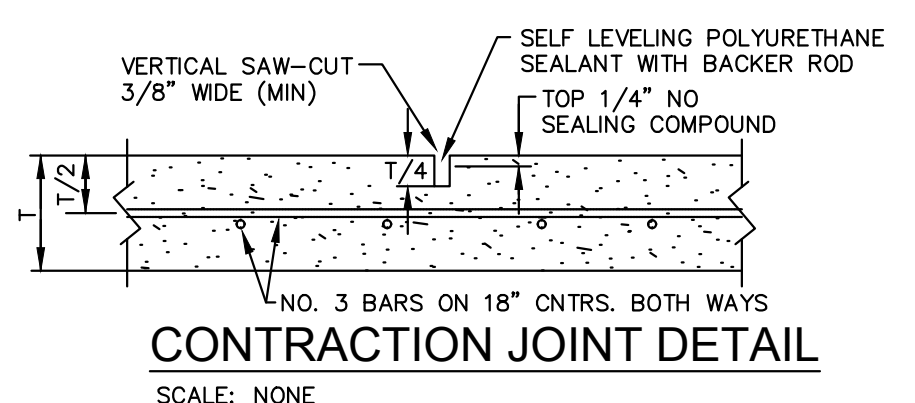
PAVING DETAILS
SCALE: NONE



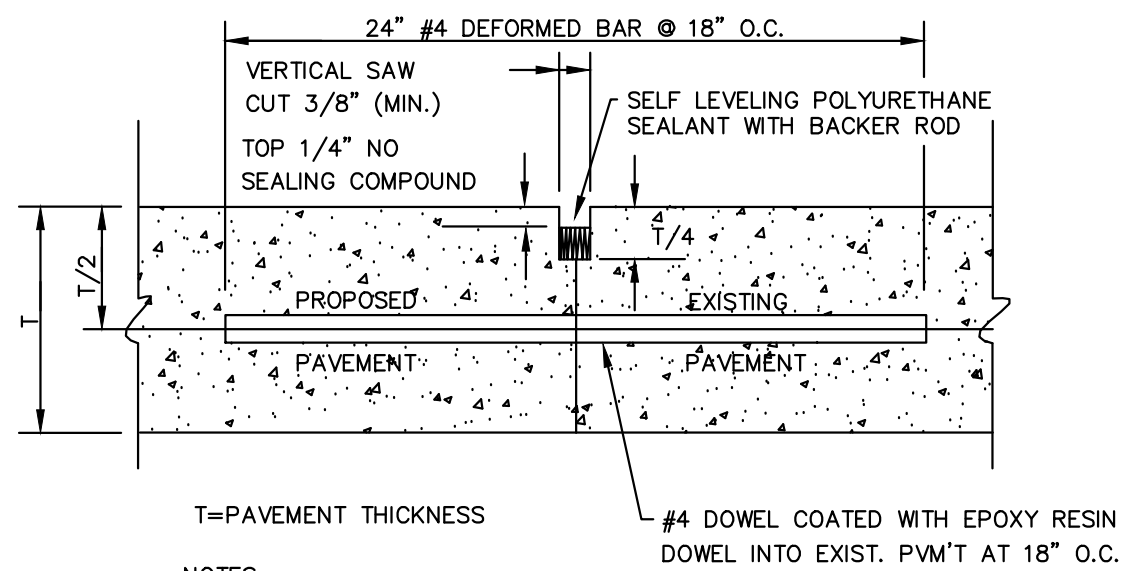
CONCRETE CURB AND GUTTER DETAIL
SCALE: NONE



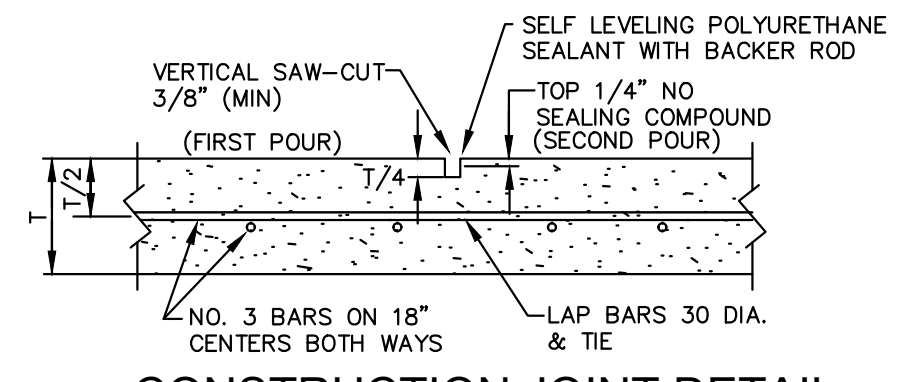
TRANSVERSE EXPANSION/ISOLATION JOINT DETAIL
SCALE: NONE



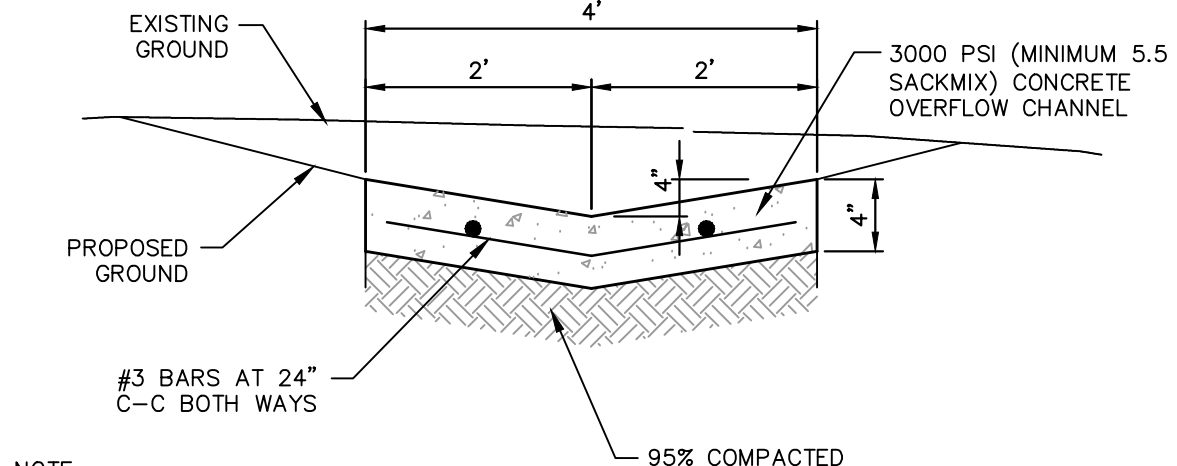
CONTRACTION JOINT DETAIL
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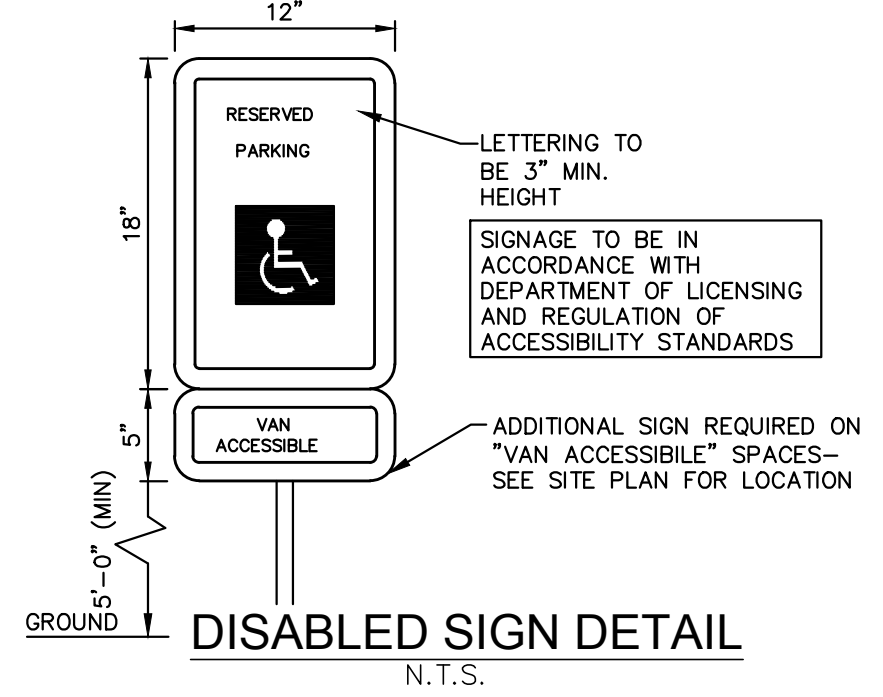
LONGITUDINAL BUTT JOINT DETAIL
SCALE: NONE



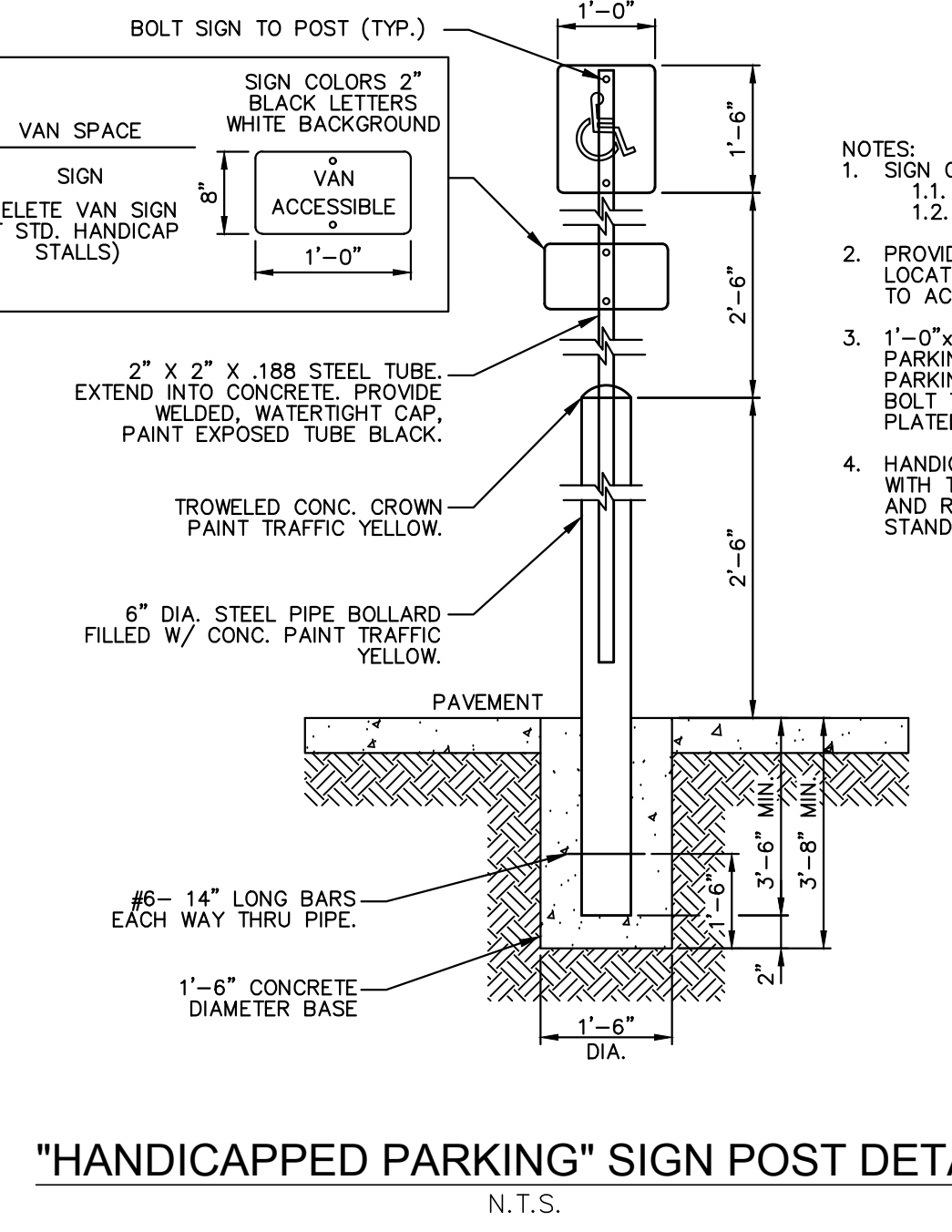
CONSTRUCTION JOINT DETAIL
SCALE: NONE



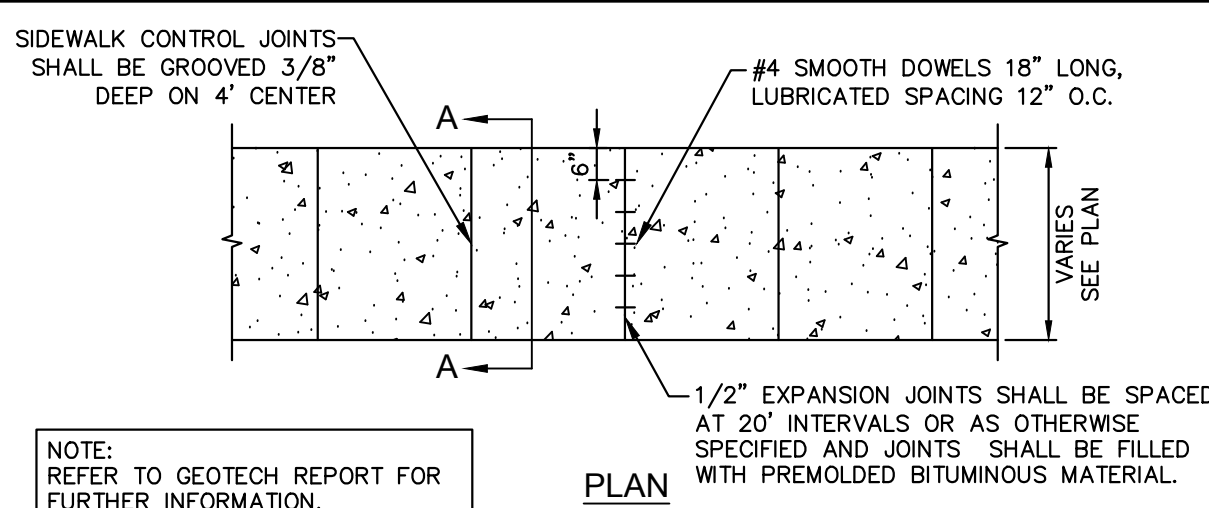
CONCRETE PILOT CHANNEL DETAIL
N.T.S.



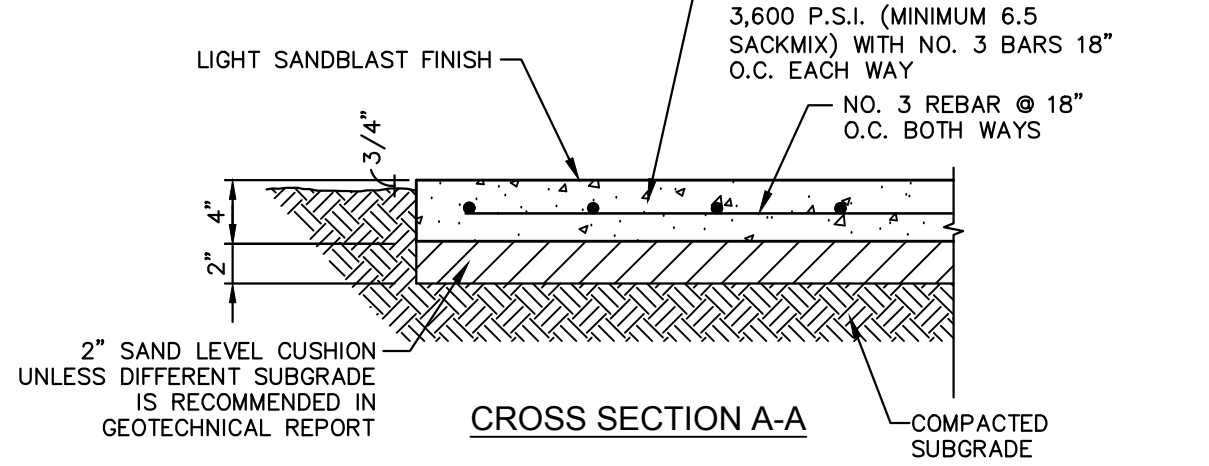
DISABLED SIGN DETAIL
N.T.S.



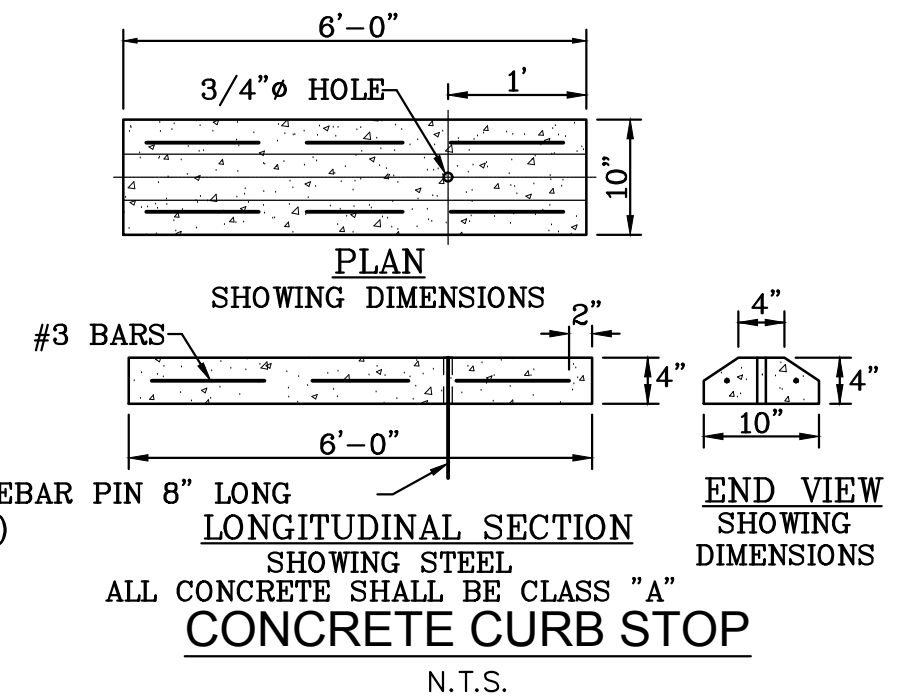
"HANDICAPPED PARKING" SIGN POST DETAIL
N.T.S.



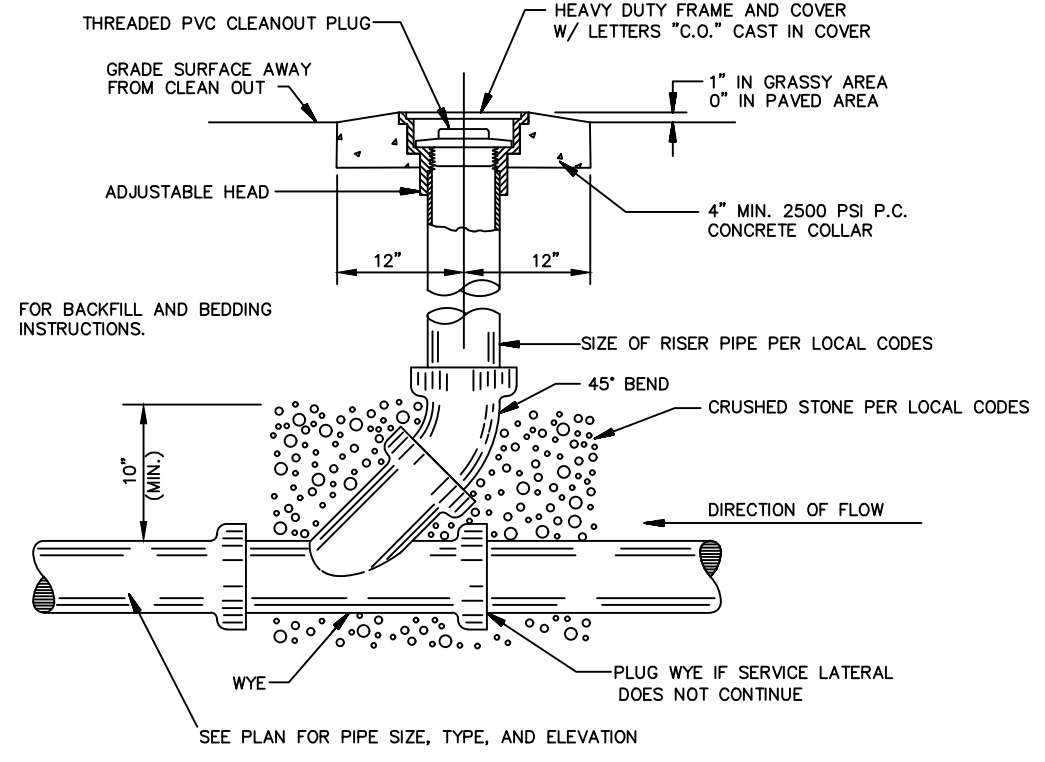
PLAN



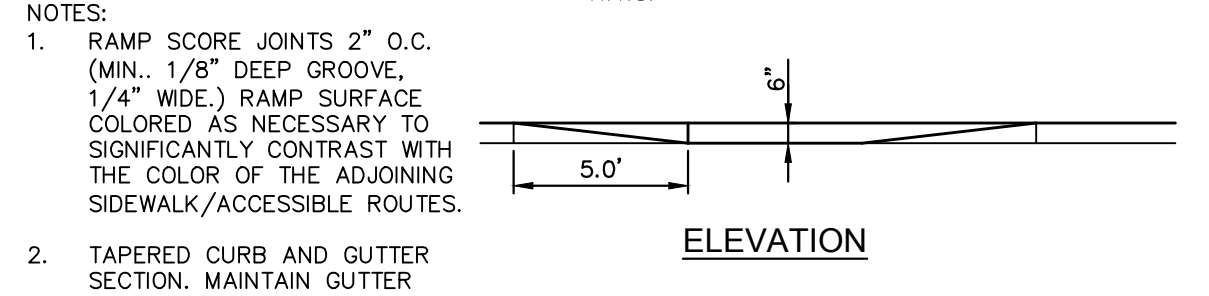
PRIVATE CONCRETE SIDEWALK DETAIL
N.T.S.



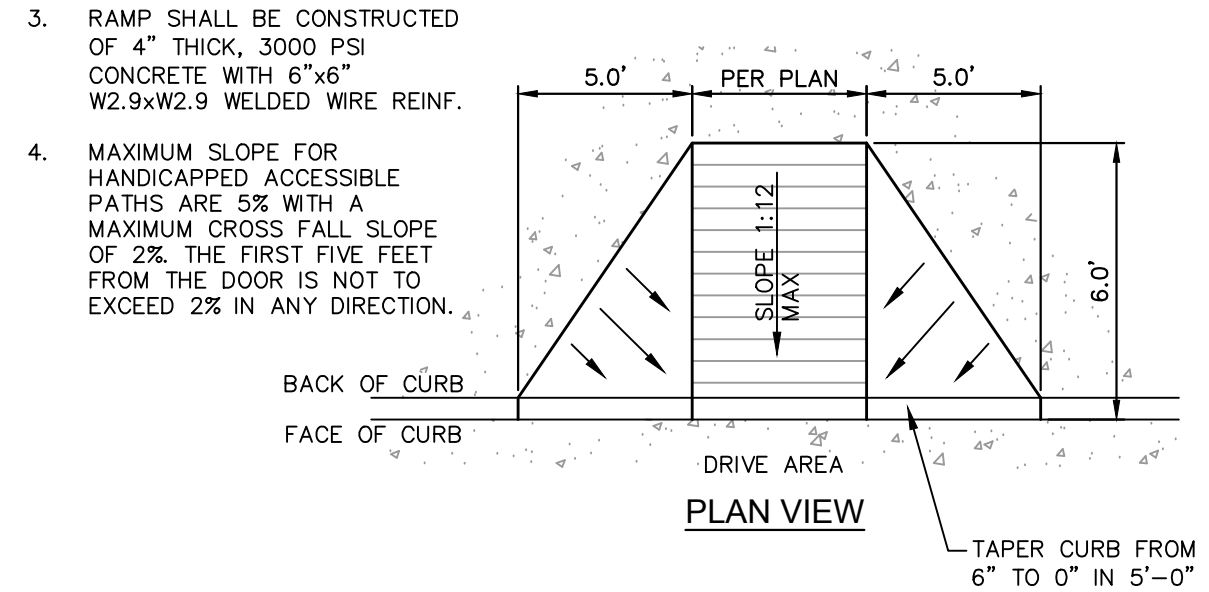
CONCRETE CURB STOP
N.T.S.



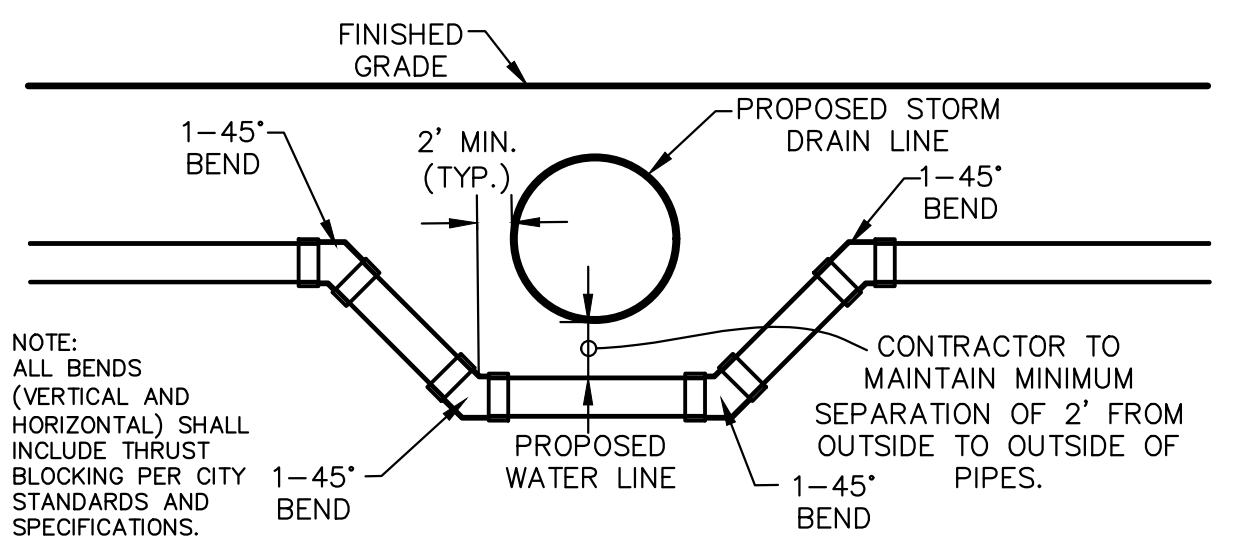
SANITARY SEWER CLEAN-OUT
N.T.S.



ELEVATION



PRIVATE HANDICAPPED RAMPS
N.T.S.



WATER CROSSING DETAIL
N.T.S.

- NOTES:**
- SIGN COLORS: 1.1. BACKGROUND: WHITE 1.2. SYMBOL: BLUE
 - PROVIDE SIGNAGE AT END OF STALL AT LOCATIONS W/ ACCESSIBLE DESIGNATION TO ACT AS BUMPER STOP.
 - 1'-0"x1'-6"x.080" ALUM. HANDICAPPED PARKING SIGN, SIGN TO READ "RESERVED PARKING" W/ IDENTIFICATION SYMBOL, BOLT TO STEEL TUBE W/ 3/8" GALV. PLATED BOLTS, NUTS & WASHERS.
 - HANDICAP SIGNAGE TO BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION TEXAS ACCESSIBILITY STANDARDS (TAS) PER 4.6.4

BENCHMARKS

1. CITY OF ROCKWALL, TEXAS - CONTROL MONUMENT R016. POSTED ELEVATION = 558.92

**SERVICE KING 1780 E I-30 FRONTAGE RD
ROCKWALL, TX 75087**

LEGAL DESCRIPTION AND OR ADDRESS:
SHERIFF'S TAX DEED
U.V. REAL ESTATE, LP.
DOCUMENT NO. 2012-00466327
3.293 AC

OWNER:
U.V. REAL ESTATE L.P.
8131 LYNDON B JOHNSON FREEWAY
SUITE 770
DALLAS, TEXAS 75251

APPLICANT:
CLAYMOORE ENGINEERING, INC.
1903 CENTRAL DRIVE, SUITE #406
BEDFORD, TX 76021
PH: 817.281.0572

CASE NUMBER
SP2016-006

TEXAS REGISTRATION #14199

CLAYMOORE ENGINEERING

1903 CENTRAL DR. SUITE #406
BEDFORD, TX 76021
PHONE: 817.281.0572
WWW.CLAYMOOREENG.COM

STATE OF TEXAS

MATT MOORE
95813
LICENSED PROFESSIONAL ENGINEER

11/16/2017

SERVICE KING

**1780 E. INTERSTATE 30 FRONTAGE RD
ROCKWALL, TEXAS 75087
SP2016-006**

| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |
| | | | |
| | | | |

CONSTRUCTION DETAILS

DESIGN: ASD
DRAWN: ASD
CHECKED: CLC
DATE: 11/16/2017

SHEET
C-12

File No. 2015-147