

## GENERAL CONSTRUCTION NOTES

### STANDARD PLAN 010.00

- ALL PROJECTS SHALL BE CONSTRUCTED PER THE LATEST EDITION OF THE WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (SSRB&MC) AS AMENDED AND SUPPLEMENTED BY THE APWA SUPPLEMENT, THE CITY OF COLLEGE PLACE STANDARD SPECIFICATIONS AND THESE DRAWINGS. WORK SHALL CONFORM TO FEDERAL, STATE AND LOCAL CODES.
- THE OWNER & CONTRACTOR SHALL PROVIDE PROPER SAFETY MEASURES IN ACCORDANCE WITH STATE AND FEDERAL SAFETY LAWS (WISHA, OSHA) AND SHALL PROTECT EMPLOYEES AND THE PUBLIC.

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- THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR AT THE JOB SITE DURING ALL WORKING HOURS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THESE APPROVED PLANS STAMPED "FOR CONSTRUCTION" AND SIGNED BY THE CITY ENGINEER ON THE CONSTRUCTION SITE AT ALL TIMES.
- THE CONTRACTOR SHALL INVESTIGATE THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS REQUIRING MODIFICATION PRIOR TO PROCEEDING. ANY CHANGES TO THE DESIGN MUST BE APPROVED BY THE CITY OF COLLEGE PLACE CITY ENGINEER OR HIS DESIGNEE AND THE OWNER PRIOR TO IMPLEMENTING/CONSTRUCTING THE CHANGE.

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- THE CONTRACTOR SHALL TAKE PREVENTATIVE MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER OR THE CITY OF COLLEGE PLACE, REPLACE ANY IMPROVEMENTS SO DAMAGED.
- .7 THE LOCATIONS OF EXISTING UTILITIES ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT OCCUR TO EXISTING UTILITIES AS WELL AS DAMAGES OCCURRING AS A RESULT OF DAMAGES TO UTILITIES. PRIOR TO DIGGING, VERIFY LOCATION AND DEPTH OF UTILITIES AND ANY OTHER UNDERGROUND INTERFERENCE. CALL 1-800-425-5555 OR 811 TWO BUSINESS DAYS BEFORE YOU DIG. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND THE CONDITIONS ENCOUNTERED, THE CONTACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE CITY OF COLLEGE PLACE PUBLIC WORKS DIRECTOR OR CITY ENGINEER.
- THE OWNER AND CONTRACTOR SHALL OBTAIN A CONSTRUCTION STORMWATER GENERAL PERMIT FROM THE DEPARTMENT OF ECOLOGY AND SHALL COMPLY WITH THE NPDES GCP (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL CONSTRUCTION PERMIT). THIS INCLUDES USING BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT DISCHARGE OF STORM WATER AND SEDIMENTATION FROM THIS

SITE DURING CONSTRUCTION. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE BMP'S IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.

- 10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK IN THE RIGHT-OF-WAY. TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE SO AS TO HAVE A MINIMUM IMPACT TO EXISTING TRAFFIC. PROVISION SHALL BE MADE FOR ACCESS BY RESIDENTS IMPACTED BY PROJECT AND EMERGENCY AND GARBAGE COLLECTION VEHICLE ACCESS SHALL BE PROVIDED AT ALL TIMES. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS (PERMIT OF ENTRY, GRADING, SEWER, WATER, ETC) BEFORE COMMENCING WORK. WORK IN THE RIGHT-OF-WAY OR WORK IMPACTING CITY EASEMENTS REQUIRES A RIGHT-OF-WAY OR ENTRY PERMIT FROM THE JURISDICTION OWNING THE RIGHT-OF-WAY.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT FUTURE LAND CORNERS. DISTURBED PROPERTY MARKERS, BENCHMARKS ETC. SHALL BE REPLACED AT THE CONTRACTOR'S COST USING THE SERVICES OF A REGISTERED SURVEYOR LICENSED IN THE STATE OF WASHINGTON.
- AMERICAN DISABILITY ACT REQUIREMENTS SHALL BE OBSERVED WHETHER OR NOT THEY ARE SPECIFICALLY CALLED OUT ON PLANS OR DETAILS. WHERE THE CONTRACTOR DEEMS PLANS ARE INADEQUATE TO CONSTRUCT FACILITES TO ADA STANDARDS, THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER WHO SHALL BE RESPONSIBLE TO OBTAIN ANY NECESSARY CLARIFICATION FROM THE ENGINEER OF RECORD. ANY CHANGES OR MODIFICATIONS TO APPROVED PLANS SHALL BE APPROVED IN ADVANCE BY THE CITY.
- WHERE CONNECTIONS REQUIRE "FIELD VERIFICATION", CONNECTION POINTS WILL BE EXPOSED BY THE CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.
- BACKFILLING OF ALL MAINS, SERVICES, APPURTENANCES, AND COMPACTED LIFTS SHALL BE OBSERVED BY THE CITY OF COLLEGE PLACE. OBSERVATION OF SUCH WORK SHALL NOT RELIEVE THE CONTRACTOR FOR CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY FOR THE REQUIRED OBSERVATIONS AT LEAST 24 HOURS PRIOR TO INSPECTION.
- 15. PERMANENT CONTROL MONUMENTS SHALL BE ESTABLISHED AT
  ALL CONTROLLING CORNERS ON THE BOUNDARDIES OF A SUBDIVISION
  THE INTERSECTIONS OF CENTERLINES OF STREETS
  THE BEGINNING AND ENDS OF CURVES ON CENTERLINES
  RADIUS POINTS OF TURNAROUNDS
  ALL BLOCK CORNERS.
- DURING CONSTRUCTION, THE OWNER OR HIS AGENT SHALL MAINTAIN ON-SITE AND MAKE AVAILABLE TO CITY PERSONNEL, A "RED-LINED" COPY OF PLANS SHOWING ALL VARIATIONS BETWEEN APPROVED PLANS AND CONSTRUCTED FACILITIES.

- 17. UPON COMPLETION AND P HIS AGENT SHALL PROVID CITY REQUIREMENTS (SEE RIOR TO FINAL APPROVAL OF THE WORK, THE OWNER OR E THE CITY WITH AS-BUILT DRAWINGS CONFORMING TO "RECORD DRAWING REQUIREMENTS" DOCUMENT).
- 18. THE ENGINEER OF RECORD SHALL PROVIDE THE CITY OF COLLEGE PLACE WITH WRITTEN, STAMPED CONFIRMATION THAT, "THE STORM DRAINAGE FACILITIES, AS CONSTRUCTED, WILL FUNCTION AS DESIGNED." THE STAMPED CERTIFICATION SHALL ALSO APPEAR ON THE RECORD DRAWINGS.
- 19. WHERE A STORMWATER DESIGN HAS BEEN REQUIRED, FINAL LOT GRADING FOR LOTS COVERED BY THE DESIGN SHALL BE CONSISTENT WITH THE APPROVED STORMWATER DESIGN.
- 20. TEST PITS EXCAVATED WITHIN THE LIMITS OF THE SITE SHALL BE REEXCAVATED AND REPLACED WITH COMPACTED STRUCTURAL FILL AND CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER.
- 21. UNLESS OTHERWISE SPECIFIED, CONCRETE USED IN PROJECTS APPROVED FOR CONSTRUCTION BY THE CITY OF COLLEGE PLACE SHALL MEET OR EXCEED 4000 PSI.
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- 23. THE CONTRACTOR SHALL A.M.)
- THE CONTRACTER SHALL BE RESPONSIBLE TO MAINTAIN AND CONTROL DUST ON-SITE AS A CONDITION FOR CONTINUING PROJECT APPROVAL.
- OBSERVE THE CURRENT CITY NOISE ORDINANCE (11 P.M. 7

## GENERAL ST REET CONSTRUCTION NOTES

### STANDARD PLAN 110.00

- STREET BASE ROCK LIFTS SHALL BE IMPORTED CRUSHED ROCK, COMPACTED TO A 95% RELATIVE DENSITY WITH A VIBRATING COMPACTION SLED, UPRIGHT HAMMERING COMPACTOR, HOEPACK, OR VIBRATORY COMPACTION ROLLER. \*\*\* NATIVE/EXCAVATED MATERIAL SHALL NOT BE USED FOR BACKFILL \*\*\*
- STREET BASE ROCK LIFTS SHALL BE NO MORE THEN 12" IN HEIGHT IN ORDER TO ASSURE PROPER COMPACTION. APPROPRIATE MOISTURE SHALL BE ADDED TO THE ROCK FOR OPTIMIZING COMPACTION. ROCK IS NOT TO BE COMPACTED OR GRADED DRY.
- THE LAST OR TOP LIFT, PRIOR TO PAVING THE CUT, MAY EITHER BE COMPACTED CRUSHED ROCK OR A CONTROLLED DENSITY CONCRETE FILL. CONTROLLED DENSITY CONCRETE FILL SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO USE.
- FINAL TOP COURSE ON CONCRETE PAVED STREETS SHALL BE NO LESS THAN 8" IN DEPTH.
- A COAT OF CSS-1 TACK SHALL BE APPLIED TO THE ADJOINING EDGES OF ALL ASPHALT STREET CUTS. THE ONLY EXCEPTION TO THIS IS WHERE CONCRETE IS BEING USED AS THE RESURFACING MATERIAL.
- ASPHALT FINAL TOP COURSE LIFTS SHALL BE CONSTRUCTED OF CLASS A PG 64-28 HMA OR EQUIVALENT SUPERPAVE SPECIFICATION NO LESS THEN 3" THICK AND SHALL SLOPE FROM CENTERLINE TO THE EDGE OF THE STREET AT A 2% SLOPE. THE ONLY EXCEPTION IN PAVEMENT THICKNESS IS SURFACE REPLACEMENT FOR LOW GRADE FLEXIBLE PAVEMENT WHICH ONLY REQUIRES A MINIMUM 2" LIFT. (SEE STANDARD PLAN 110.10)
- THE FOLLOWING TESTS SHALL BE PROVIDED AT THE OWNERS EXPENSE AND SHALL MEET WSDOT SPECIFICATIONS PRIOR TO ROADWAY CONSTRUCTION:
  CURRENT WSDOT PIT CERTIFICATION
  T-606/T-911 (SUBGRADE MAX. DENSITY) NOTE: PROVIDE ADDITIONAL TEST FOR SUBGRADE EXCAVATIONS 2' OR MORE BELOW EXISTING GRADE.
  T-606 (CSTC MAX. DENSITY)

- T-606/T-911 (SUBGRAD SUBGRADE EXCAVAT T-606 (CSTC MAX. DEN T-27/11 CSTC SIEVE AI T-176 CSTC SAND EQU T-606 (CSBC MAX. DEN T-27/11 CSBC SIEVE AI T-176 CSBC SAND EQU APPROVED ASPHALT THEORETICAL MAXII QUIVALENT (SE) ENSITY) ANALYSIS
- THE FOLLOWING HMA PLANT PRODUCTION TESTS SHALL BE PROVIDED AT THE OWNER EXPENSE AND SHALL MEET WSDOT SPECIFICATIONS PRIOR TO HMA APPROVAL AND PAVING:

   ASPHALT CONTENT ANALYSIS QUIVALENT (SE) .T MIX DESIGN (IMUM ASPHALT DENSITY (RICE)

- **38** DRIVEWAY/ALLEY APPROACH LIP SHALL BE NO LESS THAN 1". WHEELCHAIR RAMP LIP SHALL BE FLUSH.
- CURB/GUTTER: 3-#4 REINFORCEMENT BARS PLACED PARALLEL TO THE STREET WITH #4 CROSS TIES @ 12" ON CENTER.
- ALL SIDEWALK EDGES SHALL HAVE A ¾" RADIUS.

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- CURB, GUTTER AND SIDEWALKS SHALL BE POURED AS SEPARATE UNITS EXCEPT THAT PEDESTRIAN CURBS MAY BE POURED WITH THEIR ASSOCIATED SIDEWALK PANEL.

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# \*\*\*MONOLITHICALLY CONSTRUCED WORK SHALL NOT BE ALLOWED\*\*\*

- œ 12. 11. je. SPECIFICATIONS FOR CITY REVIEW AND APPROVAL DURING CONSTRUCTION:

  O DENSITY TESTS. FIVE MINIMUM PER FIRST 1000 FEET WITH ONE TEST PER 200' OR

  FRACTION THEREOF THEREAFTER FOR:

  • SUBGRADE BELOW 2 FEET — MINIMUM DENSITY SHALL BE 95% OF THE

  MAXIMUM DENSITY AND ± 2% OF THE OPTIMUM MOISTURE AS DETERMINED

  BY THE APPROPRIATE WSDOT TEST METHOD.

  • SUBGRADE AT GRADE.—SAME AS ABOVE.

  • CSBC — TESTS REQUIRED PER 12 INCHES OR FRACTION THEREOF. MINIMUM

  DENSITY SHALL BE 95% BASED ON THE WSDOT 606 TEST METHOD.

  • CSTC — TESTS REQUIRED PER 6" OR FRACTION THEREOF. MINIMUM

  DENSITY SHALL BE 95% BASED ON THE APPLICABLE WSDOT TEST METHOD.

  • FIVE ASPHALT DENSITIES PER 400 TON OF ASPHALT.

  • CORES—TO BE DETERMINED BY CITY.

  TEST LOCATIONS TO BE DETERMINED BY THE CITY AND WILL GENERALLY CONFORM

  TO WSDOT TEST METHOD T 716. GRADATION
  SAND EQUIVALENT
  WSDOT DEGRADATION
  LA WEAR TEST
- CURB RAMP TRANSITIONS SECTIONS SHALL BE NO STEEPER THAN A 12:1 SLOPE AS PER THE AMERICANS WITH DISABILITIES ACT (A.D.A.)
- CURB RAMP SHALL BE PLACED TO FACILITATE ALIGNMENT OF THE CROSSWALKS.
- CURB RAMPS SHALL NOT BE PLACED INTEGRAL WITH THE SIDEWALK OR CURB AND SHALL BE ISOLATED WITH EXPANSION JOINT MATERIAL.

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- SIDEWALK WIDTH SHALL BE NO LESS THAN 5'-0". WIDER SIDEWALKS SHALL BE SPECIFIED ON PLANS & DOCUMENTS AND ARE SUBJECT TO APPROVAL BY THE CITY ENGINEEER. WHEN THE WIDTH REQUIRED FOR CURB LINE SIDEWALKS IS SUCH THAT THE 12:1 RAMP SLOPE CANNOT BE ACHIEVED, THE BACK OF THE SIDEWALK SHALL BE GRADUALLY LOWERED SO THE 12:1 RAMP SLOPE CAN BE ACHIEVED OVER THE FULL WIDTH OF THE RAMP.
- YELLOW TRUNCATED DOME WARNING PADS SHALL BE PLACED ON BOTH SIDES OF CURB RAMPS, AT ENTRIES TO TRAVELED WAYS AND AT ANY GRADE CHANGE OR OBSTRUCTION IN THE SIDEWALK. THEY SHALL BE CONSTRUCTED AS PER SHOWN IN STANDARD PLANS 110.36. THE PADS SHALL EXTEND THE FULL WIDTH OF THE SIDEWALK AND SHALL BE NO LESS THAN 1'-6" OR NO MORE THAN 3'-0" WIDE AS SHOWN IN STANDARD PLANS 110.30 -110.36.

PRE-CAST MANHOLE BASE SHALL BE NO LESS THAN 24" IN HEIGHT. A THICKNESS OF 6" SHALL BE MAINTAINED BETWEEN THE FLOW CHANNEL AND BASE ROCK.

WHEN USING THE SHALLOW TYPE MANHOLE REFERRED TO IN STANDARD PLAN 310.02, A MINIMUM SEPARATION BETWEEN THE FLAT TOP AND THE INSIDE BOTTOM SURFACE SHALL BE NO LESS THAN 2'-0". IN THE EVENT THE MINIMUM SEPARATION CANNOT BE MAINTAINED, THE SHALLOW TYPE MANHOLE REFERRED TO IN STANDARD PLAN 310.03 SHALL BE USED.

SANITARY BASE SECTIONS SHALL BE PRE-CAST, CUSTOM UNITS FITTED WITH "A-LOK", PSX GASKETS (OR APPROVED EQUAL) AROUND ALL ATTACHED PIPE SECTIONS. WHERE A "KNOCK OUT" VS. A "PRE-CAST" HOLE MUST BE PLACED, A SAND COLLAR OR AN

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- APPROACH TRANSITION SECTIONS (FLARES) SHALL BE NO LESS THAN 6'-0" IN WIDTH OR 12:1 MAXIMUM SLOPE, AS SHOWN IN STANDARD PLAN 110.13.
- ALL RESIDENTIAL DRIVEWAY & ALLEY APPROACHES SHALL BE NO LESS THAN 12'-0" IN WIDTH AND NO MORE THAN 20'0".
- COMMERCIAL OR HEAVY VEHICLE LOAD DRIVEWAY AND ALLEY APPROACHES SHALL HAVE REINFORCEMENT MATERIAL PLACED WITHIN THE CURB/GUTTER & AND SIDEWALK AS SHOWN IN STANDARD PLAN 110.15 AND IN THE FOLLOWING MANNER:

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- SIDEWALK: #4 REINFORCEMENT BARS PLACED @ 12" ON CENTER EACH WAY.

- ALL RETROFIT CURB, GUTTER & SIDEWALK WORK SHALL BE SAW CUT SMOOTHLY AND EVENLY AT THE ADJOINING EDGES. COMPLETELY REMOVE THE WHOLE CURB AND GUTTER. CURB, GUTTER, DRIVEWAY & GUTTER SHALL NOT BE POURED AS ONE SECTION. EXCEPTION: PEDESTRIAN CURBS MAY BE MONOLITHICALLY POURED WITH THEIR ASSOCIATED SIDEWALK PANEL.
- %" FELT EXPANSION MATERIAL SHALL BE PLACED AT JOINTS AT ANY CHANGE IN DIRECTION, PROFILE, OR OTHER SIGNIFICANT CHANGE IN THE DESIGN OR CONFIGURATION OF THE SIDEWALK AND/OR CURB OCCURS AND AT REGULAR 100' INTERVALS: EXAMPLES OF THIS ARE AS FOLLOWS:
- DRIVEWAY/ALLEY APPROACHES
  OBSTRUCTIONS SUCH AS MANHOLES, WATER VALVE BOXES, POWER POLES, PHONE PEDESTALS,
  BEFORE AND AFTER ANY CHANGE IN DIRECTION SUCH AS SWEEPS OR CORNERS.
  WHEEL CHAIR RAMPS

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THE FOLLOWING TESTS AND INFORMATION SHALL BE PROVIDED FOR CITY REVIEW AND APPROVAL PRIOR TO PLACEMENT OF CONCRETE:

BATCH PLANT PRE-CERTIFICATION (NRMCA)

MIX DESIGN

AIR CONTENT (4.5% - 7.5%)

CYLINDERS—SEE WSDOT REQUIREMENTS. ALL UTILITIES SHALL BE RAISED PRIOR TO PLACEMENT OF FINAL LIFT OF HMA. ANY GAPS AROUND UTILITIES SHALL BE FILLED WITH CONCRETE TO TOP OF BASE LIFT/GRADE PRIOR TO PAVING FINAL LIFT.

MANHOLE CONE SECTION SHALL BE ECCENTRIC.

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- APPROVED EQUAL SHALL BE USED FOR PIPE CONNECTION. THE SAND COLLAR SHALL BE PROPERLY SEALED INSIDE AND OUTSIDE WITH NON-SHRINK, QUICK SET GROUT.
- BARREL SECTIONS SHALL BE NO LESS THAN 12" IN HEIGHT. BARREL SECTIONS FOR THE 310.03 SHALLOW TYPE MANHOLE SHALL BE NO LESS THAN 12" AND NO MORE THAN 30" IN HEIGHT. IF GRADE REQUIRES MORE THAN A 30" BARREL HEIGHT, AN ECCENTRIC CONE SECTION SHALL BE USED. THE BARREL SECTION FOR THE 310.02 SHALLOW TYPE MANHOLE SHALL BE NO LESS THE 24" AND NO MORE THAN 30" IN HEIGHT. IF GRADE REQUIRES MORE THAN A 30" BARREL HEIGHT, AN ECCENTRIC CONE SECTION SHALL BE
- RISER RINGS VARY IN HEIGHT FROM 1" TO 6". ANY NEED FOR ADJUSTMENT OVER 12" APPROVED BY THE CITY ENGINEER. A MINIMUM 2" OF RISERS SHALL BE USED ON ALL MANHOLES. USE THE LEAST NUMBER OF RISER RINGS TO ACHIEVE THE REQUIRED RISE. RISER RINGS SHALL BE PRE-CAST 3000 PSI CONCRETE OR HDPE (HIGH DENSITY POLYETHYLENE) MANHOLE ADJUSTING RINGS. ALL RISERS SHALL HAVE BUTYL OR MASTIC SEALER APPLIED TO BOTH THE TOP AND BOTTOM SURFACES. RISER STACKS SHALL BE WATER TIGHT.
- MANHOLE STEPS SHALL BE LANE BRAND, POLYPROPYLENE MANHOLE STEPS MODEL NO. P-13938E OR AN APPROVED EQUAL.
- ALL SANITARY AND STORMWATER SEWER PIPE SHALL BE FULLY BEDDED WITH A MINIMUM OF 4-IN. UNDER THE PIPE AND A MINIMUM OF 6-IN. OVER ANY PIPE. BEDDING
- MATERIALS SHALL BE CRUSHED ROCK AS PER THE STANDARD SPECIFICATION. THE CITY ENGINEER SHALL APPROVE ALL OTHER BEDDING MATERIALS PRIOR TO USE.
- PRE-CAST MANHOLE BASES SHALL BE SET LEVEL ON A MINIMUM OF 6-IN. OF WELL-COMPACTED CRUSHED AGGREGATE. SANITARY AND STORMWATER SEWER PIPE AND MANHOLES SUBJECTED TO GROUNDWATER SHALL BE PLACED ON 4-IN. OF CRUSHED ROCK BEDDING OVER 12" OF CLASS B FOUNDATION ROCK SEPARATED BY FILTER FABRIC AS PER STANDARD SPECIFICATION 9-03.17 AND CITY STANDARD PLAN 310, SECTIONS 16 & 17.
- EBEDDING UNDER SANITARY AND STORMWATER SEWER PIPE AND MANHOLES LL BE COMPACTED PRIOR TO PIPE AND MANHOLE PLACEMENT TO PROVIDE FORM SUPPORT ALONG THE ENTIRE LENGTH OF THE PIPE AND UNDER MANHOLES. Y PIPE BEDDING MATERIAL SHALL BE IN CONTACT WITH SANITARY OR RMWATER SEWER PIPE OR MANHOLES. ANY DITCH RUN GRAVEL, ASPHALT OR CRETE CHUNKS OR SIMILAR MATERIALS SHALL BE REMOVED.
- ELEVATION CITY BY A R NATIVE FILL MAY BE USED FOR BACKFILL UNLESS DEEMED UNSUITABLE BY THE ENGINEER. COMPACT TO 95% MODIFIED PROCTOR DENSITY BEFORE PROCEEDING TO PLACEMENT OF BASE ROCK AND PAVING. LABORATORY TESTING SHALL BE PERFORMED TO DETERMINE MAXIMUM MODIFIED PROCTOR DENSITY FOR NATIVE FILL. IMPORT FILL REQUIRES SUPPLIER PROCTOR TEST RESULTS. IF NATIVE FILL IS UNSUITABLE AS DETERMINED BY THE CITY ENGINEER, BANK RUN GRAVEL PER THE ATIONS AND DISTANCES BETWEEN ELEVATIONS SHALL BE PROVIDED TO THE BY A REGISTERED SURVEYOR OR PROFESSIONAL ENGINEER AFTER BEDDING PIPE OMPACTED BEDDING, PRIOR TO BACKFILL, AT A MINIMUM OF EVERY 100' AND AT HOLE TERMINATIONS. SEWER AND STORM PIPE GRADE SHALL CORRESPOND TO OVED PLANS AND IN NO CASE SHALL BE LESS THAN 0.4% WITHOUT BELLIES OR

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CITY OF COLLE GE PLACE

by City of College Place

Before Digging **Business Days Call 811** 



**Utility Locate** 

RECORD DRAWING DRAWN BY: CHECKED: JULY 2016 3845 SCALE: H: N/A V: N/A

DESIGNED:

**GENERAL NOTES FOR:** A SUBDIVISION LOCATED IN THE CITY OF COLLEGE PLACE, WASHINGTON

GARRISON VILLAGE XI

**DESIGN GROUP** 

MANHOLE RING & COVER SHALL BE INLAND FOUNDRY COMPANY INC. #817 WITH A SOLID COVER LABELED "SEWER" OR APPROVED EQUAL.

MASTIC JOINT SEAL SHALL BE PLACED AT EVERY JOINT BETWEEN BARREL SECTIONS, RISER SECTIONS, AND THE CAST IRON TOP.

IN MANUFACTURING THE MANHOLES, THE CONTRACTOR IS ADVISED TO REVIEW THE DETAILS AS OUTLINED IN ANY TECHNICAL SPECIFICATIONS AND/OR PLANS, WHICH SHOW THE <u>SEWER PIPE SLOPE CALCULATED TO THE CENTERLINE OF THE MANHOLE.</u>

CAST IRON MANHOLE RING AND COVER USED WITH THE SHALLOW TYPE MANHOLE DISPLAYED IN STANDARD PLAN 310.03 SHALL BE INLAND FOUNDRY COMPANY INC. #723-1 OR #723-2 WITH A SOLID 48" MAIN COVER AND A SOLID 24" LIMITED ACCESS COVER OR AN APPROVED EQUAL.

6115 Burden Blvd, Suite E Pasco, WA 99301-8930 509/547-5119 306/695-3488 509/547-5129 fax

MANHOLE PIPE CONNECTORS SHALL BE CAPABLE OF A 10° DEFLECTION IN ANY ONE DIRECTION AND SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER. SANITARY MANHOLES (AND STORM SEWER MANHOLES WITH PVC PIPE CONNECTIONS) SHALL USE THE A-LOK PIPE CONNECTOR, MANUFACTURED BY A-LOK PRODUCTS OR PSX, MANUFACTURED BY PRESS-SEAL GASKETS CORP. OR APPROVED EQUAL. ALL OTHER CONNECTION SYSTEMS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO USE. STORM SEWER MANHOLES WITH HDPE PIPE CONNECTIONS MAY BE GROUTED (A-LOK NOT REQUIRED).

ANY GAPS, HOLES, ROUGH SPOTS, ETC., IN THE CHANNELS, AT PIPE CONNECTIONS, AND JOINTS, SHALL BE FILLED OR REPAIRED IN THE FIELD.

MANHOLES SHALL BE SET A MINIMUM OF 8 INCHES AND NOT MORE THAN 12" BELOW FINISH GRADE AND THEN ADJUSTED TO GRADE WITH RISER RINGS AS REQUIRED.

ALL MANHOLES AND CURB INLETS SHALL BE PRE-CAST CONCRETE UNITS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

SANITARY & STORM SEWER NOTES

STANDARD PLAN 310.00

21. THE CITY ENGINEER OR HIS DESIGNEE MAY IMPOSE OTHER DESIGN AND CONSTRUCTION CONSIDERATIONS, AS CIRCUMSTANCES REQUIRE. CURB INLET GRATES SHALL NOT BE PLACED WITHIN ADA ACCESS ROUTES AND SHALL NOT UTILIZE A HOOD WHEN LOCATED ADJACENT TO A CURB RAMP. MANHOLE BARREL SECTIONS AND RISER RINGS SHALL BE SEALED WATERTIGHT WITH MASTIC. IN ADDITION, ALL SANITARY MANHOLES SUBJECTED TO GROUNDWATER SHALL BE SHALL BE SEALED WITH CITY-APPROVED SEALANT ON THE EXTERIOR FROM THE BASE TO 3° ABOVE THE SEASONAL HIGH GROUNDWATER LEVEL AND SHALL BE VACUUM TESTED PER ASTM C-1244 WHEN SEASONAL HIGH GROUNDWATER IS OVER 3° HIGH FROM THE BASE. STANDARD SPECIFICATIONS 9-03.19 OR OTHER GRANULAR MATERIAL APPROVED BY THE CITY ENGINEER SHALL BE USED. THE DIRECTIONAL CONFIGURATION OF THE CURB INLET GRATE SHALL BE DETERMINED AT THE TIME OF DESIGN. <u>CLOSE ATTENTION SHOULD BE PAID TO THIS DETAIL WHEN ORDERING THE GRATE FROM THE MANUFACTURER. REFER TO STANDARD PLAN 311.01.</u> PRE-CAST CURB INLET BOX (CATCH BASIN) SHALL BE NO LESS THAN 48" IN HEIGHT. A THICKNESS OF 6" SHALL BE MAINTAINED BETWEEN THE INSIDE BASE AND BASE ROCK. CURB INLET BOXES SHALL BE PRE-CAST CUSTOM UNITS CONSTRUCTED WITH A REINFORCEMENT CAGE AND PUNCH OUT SECTIONS NO LESS THAN 2" THICK ON ALL FOUR VERTICAL SIDES AS INDICATED IN STANDARD PLAN 311.02. INSTALLATION SHALL BE PER STANDARD PLAN 311.05. MINIMUM DIAMETER OF STORMWATER PIPES SHALL BE 8". LARGER SIZES MAY BE REQUIRED. THE CITY ENGINEER MAY REQUIRE THE APPLICATION OF AN AIR PRESSURE TEST ON ANY STORM SEWER PIPES PER STANDARD SPECIFICATIONS (7-04.3(1) E OR F AS APPLICABLE). CLEANING AND REMOVAL OF ANY ROCK IS REQUIRED. AFTER CLEANING, THE CITY SHALL BE NOTIFIED FOR TV INSPECTION OF ALL STORM SEWER LINES. ANY WORK FAILING AN AIR TEST AND OR TV INSPECTION MUST BE REPAIRED AND RE-TESTED FOR CITY APPROVAL. THE CITY ENGINEER OR HIS DESIGNEE MUST WITNESS, VERIFY, AND RECORD ALL TESTS. SEWER SERVICE LATERALS SHALL BE LAID BETWEEN MINIMUM AND MAXIMUM GRADES AS DETERMINED BY THE BUILDING OFFICIAL. THE CAST IRON CURB INLET GRATE SHALL BE UNI-DIRECTIONAL OR BI-DIRECTIONAL GRATES ONLY. INLAND FOUNDRY COMPANY #571-3 OR #571-5 OR AN APPROVED EQUAL. CURB INLET BOXES (CATCHBASINS) WITH PVC LINE CONNECTIONS SHALL USE SAND COLLARS WITH GROUT SEAL ("A-LOK" ALSO ACCEPTABLE). SIMILAR TRANSITIONS MAY BE USED WITH CITY ENGINEER APPROVAL. HDPE PIPE CONNECTIONS TO CURB INLET BOXES MAY BE GROUTED (SAND COLLARS NOT REQUIRED). LATERAL SIDE SEWER SERVICES MUST BE MARKED WITH A NO. 12 SOLID COPPER LOCATOR WIRE AND THE ENDS, MARKED WITH A BURRIED STEEL FENCE POST EXTENDED ABOVE THE GROUND AT LEAST 6-IN. IN URBAN AREAS AND 4 FT. IN RURAL AREAS. THE LOCATOR WIRE SHALL BE TIED AROUND THE MAIN LINE AND EXTENDED ALONG THE SIDE SEWER AND UP THE MARKER POST. ALL <u>SAWITARY</u> SEWER PIPE SHALL BE TESTED BY APPLICATION OF AN AIR PRESSURE TEST IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS (7-17.3(2)E OR F AS APPLICABLE). CLEANING AND REMOVAL OF ANY ROCK IN THE PIPE AND MANHOLES IS REQUIRED. AFTER CLEANING, THE CITY SHALL BE NOTIFIED FOR TV INSPECTION OF ALL LINES 6-IN. AND LARGER. ANY WORK FAILING AIR TEST AND OR TV INSPECTION MUST BE REPAIRED AND RE-TESTED FOR CITY APPROVAL. THE CITY ENGINEER OR HIS DESIGNEE MUST WITNESS, VERIFY, AND RECORD ALL TESTS. INFILTRATION FACILITIES SHALL BE CONSTRUCTED WTHOUT ALLOWING HEAVY EQUIPMENT TO TRACK ON INFILTRATION SURFACE. ANY COMPACTION AFTER INFILTRATION FACILITIES ARE FORMED SHALL REQUIRE INFILTRATION SURFACE TO BE SCARIFIED TO A DEPTH OF 12" TO ALLEVIATE COMPACTION OF THE INFILTRATION SURFACE. ç THE CONTRACTOR SHALL COMPLY WITH THE NPDES GCP (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL CONSTRUCTION PERMIT). THIS INCLUDES USING BEST MANAGEMENT PRACTICES TO PREVENT DISCHARGE OF STORM WATER AND SEDIMENTATION FROM THIS SITE DURING CONSTRUCTION. THE IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE BMP'S ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED. THE ENGINEER (OR HIS AGPROVIDED ACCESS TO STO DURING CONSTRUCTION. THE CONTRACTOR SHALL PREVENT DISCHARGE OF CONSTRUCTION STORMWATER AND SEDIMENTATION FROM LEAVING THE SITE USING BEST MANGEMENT PRACTICES TO INCLUDE ONE OR MORE OF THE FOLLOWING AS NECESSARY: MAINTAIN BMP'S. REGULARLY INSPECT, MAINTAIN AND REPAIR ALL BMPS. INSPECT EROSION AND SEDIMENT CONTROL BMPS AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY DISCHARGE FROM THE SITE. REMOVE ALL TEMPORARY EROSION AND SEDIMENT BMPS WITHIN 30 DAYS OF FINAL SITE STABILIZATION. REMOVE OR STABILIZE ON-SITE TRAPPED SEDIMENT. STABILIZE CHANNELS AND OUTLETS STABILIZE DRAIN OUTLETS, ADJACENT STREAM BANKS, SLOPES AND CHANNELS WITH ARMORING SUCH AS ROCKS OR GRAVEL. PROTECT DRAIN INLETS. PROTECT ALL OPERABLE STORM DRAIN INLETS FROM SEDIMENT. CLEAN AND REMOVE SEDIMENT FROM INLET PROTECTION DEVICES WHEN THEY FILL TO 1/3 OF THEIR CAPACITY. STABILIZE SOILS. SOIL STABILIZATION INCLUDES TEMPORARY AND PERMANENT SEEDING, MULCHING, GEOTEXTILES, EROSION CONTROL FABRICS, AND SOD STABILIZATION. INSTALL SEDIMENT CONTROLS. PASS STORMWATER THROUGH A SEDIMENT POND, SEDIMENT TRAP, FILTER OR OTHER EQUIVALENT MEASURE BEFORE IT LEAVES THE SITE OR ENTERS DRAIN INLETS. CONSTRUCT SEDIMENT PONDS, TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND SILT FENCES AS FIRST STEP IN GRADING. CONTROL FLOW RATES. PROTECT PROPERTIES AND WATERWAYS DOWNSTREAM FROM THE SITE FROM IMPACTS OF STORMWATER RUNOFF. REDUCING FLOW AND PREVENTING EROSION ARE TWO WAYS TO DO THIS. ESTABLISH CONSTRUCTION ACCESS REDUCE VEHICLE ACCESS POINTS AND STABILIZE ENTRANCE WITH CRUSHED ROCK OR SIMILAR MATERIAL. MINIMIZE MUD AND DIRT TRACKED ONTO PAVED ROADS. CLEAN ROAD SURFACES ON A REGULAR BASIS. SHOVEL AND SWEEP MUD OFF ROADWAY. PRESERVE VEGETATION AND MARK CLEARING LIMITS. PROTECT NATURAL VEGETATION AND TREES. USE VEGETATED BUFFERS, BEFORE GRADING, MARK CLEARING LIMITS AND SENSITIVE AREAS FOR PROTECTION. CONTROL DE-WATERING. CAREFULLY CONTROL DE-WATERING. IF YOU HAVE MUDDY OR CONTAMINATED DE-WATERING WATER, THEN TREAT IT SEPARATELY FROM OTHER STORMWATER RUNOFF. PROTECT SLOPES. DIVERT RUNOFF AROUND SLOPES AND DISTURBED AREAS WITH PIPE SLOPE DRAINS. DESIGN AND CONSTRUCT CUT AND FILL SLOPES TO MINIMIZE EROSION. METHODS MAY INCLUDE TERRACING AND DIVERSIONS, AND REDUCING STEEPNESS. SOURCES SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, AND WATER USED TO WASH AND CURE CONCRETE. OBTAIN WRITTEN APPROVAL FROM ECOLOGY PRIOR TO USING CHEMICAL TREATMENT OTHER THAN CO2 TO ADJUST PH. STORMWATER FACILITY NOTES STANDARD PLAN 410.00 ENT) CERTIFYING STORMWATER FACILITIES SHALL BE PRIME FACILITIES FOR OBSERVITION AT ANY TIME L BE REGISTERED USING CITY-PROVIDED IDENTIFICATION UNDERGROUND INJECTION CONTROL PROGRAM AT Y PRIOR TO USE (UIC PROGRAM, DEPARTMENT OF ECOLOGY, VA 98504-7600. 7. **13**. 16. THE MAIN GATE VALVE FOR THE BLOWOFF ASSEMBLY SHALL BE A MUELLER 2" A-2360 #10A.14 WITH A 2" SQUARE WRENCH NUT OR AN APPROVED EQUAL. SEE STANDARD PLAN 210.08. A MINIMUM DEPTH OF 16" SHALL BE MAINTAINED BETWEEN THE TOP OF THE METER SETTER AND FINISHED GRADE. SERVICE LINES SHALL BE NO LESS THAN 1" DIAMETER TYPE K COPPER TUBE OR CTS POLYETHYLENE PIPE. SERVICE LINES LARGER THEN 1" SHALL BE CONSTRUCTED WITH CTS POLYETHYLENE. USE OF POLYETHYLENE PIPE SHALL REQUIRE INSPECTION AT THE TIME ALL COMPRESSION FITTINGS ARE INSTALLED. A STAINLESS STEEL INSERT WILL BE PLACED AT ALL COMPRESSION JOINTS. FAILURE TO OBTAIN AN INSPECTION WILL RESULT IN REMOVAL OF ALL OR A PORTION OF THE WORK IN ORDER TO FACILITATE A PROPER INSPECTION. SINGLE STRAP SADDLES SHALL BE ROMAC 101S. DOUBLE STRAP SADDLES SHALL BE ROMAC 202S OR APPROVED EQUAL. CORPORATION STOPS SHALL BE MALE IRON PIPE THREAD (MIPT) X COPPER TUBE SIZE (CTS) COMPRESSION FITTINGS. ALL WATER MAINS SHALL BE A MINIMUM CLASS 50 DUCTILE IRON PIPE WITH A MINIMUM DIAMETER OF 8". A SHEET OF 6 MIL. POLY SHEETING SHALL BE PLACED BETWEEN THE BASE OF ALL FIRE HYDRANTS, VALVES, PIPE FITTINGS AND INSTALLED THRUST BLOCKS. SEE STANDARD PLAN 210.02 AN 8X8X4 INCH PRE-CAST 3000 PSI CONCRETE BLOCK SHALL BE PLACED BENEATH THE BASE OF ALL FIRE HYDRANTS. THIS IS TO ALLOW THE 1 ½" DRAIN ROCK TO COMPLETELY SURROUND THE BASE OF THE HYDRANT TO FACILITATE PROPER DRAINAGE. WATER METERS SHALL BE METRON FARNIER SPECTRUM SERIES INNOV 8 RADIO REGISTER METERS REGISTERING IN 1000 GALLONS. MINIMUM SIZE SHALL BE FULL ½" SHORT BODY FOR RESIDENTIAL WATER SERVICES. ALL GATE VALVES SHALL BE MUELLER A2360 RESILIENT WEDGE GATE VALVES WITH A 2" SQUARE WRENCH NUT OR AN APPROVED EQUAL. A STORTZ COUPLER SHALL BE MOUNTED TO THE 4 1/2" PORT ON ALL NEW FIRE HYDRANTS. EXISTING FIRE HYDRANTS WILL BE RETROFIT WITH A THREADED STORTZ ADAPTER. 3000 PSI CONCRETE THRUST BLOCKS SHALL BE USED TO RESTRAIN FIRE HYDRANTS AND CONTROL VALVES. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL. SEE STANDARD PLAN 210.02, 210.09, 210.10, 210.11. TOTAL DEPTH OF METER BOX BURY SHALL BE 30" MINIMUM. ALL METER BOXES USED SHALL BE CONSTRUCTED OF PLASTIC. THE SET SHALL CONSIST OF ONE 12" TOP SECTION AND ONE 18" BOTTOM SECTION. NO PIPE SLOTS ARE ALLOWED. METER BOXES SHALL BE MID-STATES 1324 OR APPROVED EQUAL FOR 1" OR SMALLER METERS. BLOWOFF ENCLOSURE SHALL BE MID-STATES 1324 METER BOX WITH A CAST IRON LID. ALL GATE VALVE RISER PIPE SHALL BE 8" SDR-35 (UN-USED SEWER PIPE). STANDARD PLAN 210.00

WATER UTILITY SYSTEM NOTES

METER BOXES FOR 1 ½" AND 2" BE BROOKS #66 CONCRETE.

METERS SHALL BE MID-STATES 1730.

LID/COVER SHALI

UNLESS DEEMED UNSUITABLE BY THE ROCTOR DENSITY BEFORE PROCEEDING TO

ALL VALVE OPERATIONS AND OTHER ACTIVITIES IMPACTING THE WATER DISTRIBUTION SYSTEM SHALL BE PERFORMED BY THE CITY OF COLLEGE PLACE PUBLIC WORKS. 24-HOUR NOTIFICATION OF ANY INTERRUPTION IN WATER SERVICE IS REQUIRED TO ALL AFFECTED CUSTOMERS.

WATER MAINS, SSRB&MC. PRESSURE TESTING, FLUSHING, BACTERIAL SAMPLING AND WATER MAINS, SSRB&MC. PRESSURE TESTING, FLUSHING, BACTERIAL SAMPLING AND STARTUP SHALL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SECTION IS COMPLETE. SPECIAL INSPECTION AND CERTIFICATION OF ADEQUACY BY A PROFESSIONAL ENGINEER IS REQUIRED. ALL NEW FITTINGS AND EXISTING FITTINGS EXPOSED DURING INSTALLATION SHALL BE SWABBED WITH CHLORINE AND THE LINE CHLORINATED. ONCE THE LINE IS CHORS. THE LINE SHALL THEN BE THOROUGHLY FLUSHED AND WATER SAMPLES TAKEN BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE FOR APPROVAL BY THE LOCAL HEALTH AGENCY. WATER SHALL NOT BE FLUSHED TO NATURAL WATERS OR WATERWAY. SHOULD THE INITIAL TREATMENT RESULT IN AN UNSATISFACTORY BACTERIOLOGICAL TEST, THE ORIGINAL CHLORINATION PROCEDURE SHALL BE REPEATED BY THE CONTRACTOR UNTIL SATISFACTORY RESULTS ARE OBTAINED.

25

NEW WATER LINE INSTALLATIONS SHALL BE PRESSURE TESTED AND MEET MINIMUM LEAKAGE STANDARDS IN CONFORMANCE WITH SSRB&MC.

12" AND SMALLER LINES SHALL BE AWWA C151 CLASS 50 DUCTILE IRON WITH CLASS C104 CEMENT MORTAR LINING WITH ALL JOINTS MECHANICALLY RESTRAINED. PIPE JOINTS SHALL BE RESTRAINED USING TR-FLEX OR FLEX RING DUCTILE IRON PIPE OR BY USING FIELD-LOK OR FAST GRIP GASKETS. THE GASKET USED SHALL BE MANUFACTURED BY THE MANUFACTURER OF THE PIPE BEING USED AND SHALL BE RECOMMENDED FOR THE APPLICATION. LARGER WATER LINES LARGER THAN 12" SHALL BE TR FLEX OR FLEX-RING DUCTILE IRON PIPE CLASS 52.

WATER MAINS AND SERVICE LINES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30" TO OUTSIDE CROWN OF PIPE.

ALL FIRE HYDRANTS SHALL BE DRY BARREL, THREE PORT TYPE AND MEET ALL SPECIFICATIONS OUTLINED IN ARTICLE 200.02 OF THE CITY STANDARD SPECIFICATIONS.

CLEAN, WASHED 1 ½" DRAIN ROCK SHALL BE PLACED AROUND THE BASE OF ALL FIRE HYDRANTS AND BLOWOFF ASSEMBLIES AND SHALL BE COVERED WITH FILTER FABRIC.

CITY OF COLLE GE PLACE

Before **Business Days Utility Locate Call 811** Digging

RECORD

DRAWING

JULY 2016 3845

DESIGNED:
JLM
DRAWN BY:
CAD
CHECKED:
JLM

**GENERAL NOTES FOR: GARRISON VILLAGE XI** 

**DESIGN GROUP** 

Pasco, WA 99301-8930 509/547-5119 306/695-3488 509/547-5129 fax

Internet: www.hdjdesigngroup.com

HYDRANT FIRE FLOW WILL BE REQUIRED PER INTERNATIONAL FIRE CODE SECTION C105.1 PRIOR TO PROJECT APPROVAL.

sed Curb & Gutter sed End Of Pav't sed Sidewalk sed Wall sed Building sed Setback sed Property Line sed Cut Line sed Paint Stripe sed Wetland Buffer sed Wetland Buffer sed Contour n Control Filter Fabric Fence Sanitary Lateral Water Pipe Sanitary Lateral Water Pipe Sanitary Lateral Curb Contour Picherine Right-of-way Contour Paint Stripe	Proposed Proposed Proposed Proposed Proposed Proposed Proposed Future Sa Future Sa Future Co Future Pa		Existing Irrigation Pipe Existing 4" Irrigation Pipe Existing 8" Irrigation Pipe Existing 8" Irrigation Pipe Existing 10" Irrigation Pipe Existing 12" Irrigation Pipe Existing Irrigation Lateral Existing Cable Tv Line Existing Gas Line Existing Gas Line Existing Telephone Line Existing Underground Utility Line Existing Curb Existing Curb Existing Courb Existing Flow Line Existing Flow Line Existing Paint Stripe Existing Paint Stripe Existing Right-of-way Existing Wetland Perimeter Existing Wetland Buffer Existing Utility Easement Existing Courter Section Existing Railroad Existing Railroad Existing Railroad Existing Lot Line Existing Railroad Existing Lot Line
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Curb & Gutter	Propos Propos Propos Future Future	8 24" WTR 8 6" IRR 10" IRR 12" IRR 12" IRR 12" IRR	Existing Irrigation Pipe Existing 4" Irrigation Pipe Existing 6" Irrigation Pipe Existing 8" Irrigation Pipe Existing 10" Irrigation Pipe Existing 12" Irrigation Pipe Existing 12" Irrigation Pipe Existing 12" Irrigation Pipe Existing Irrigation Lateral Existing Cable Tv Line
Curb & Gutter	Propos Propos Propos Erosior Future Future	24" WTR	Existing Irrigation Pipe Existing 4" Irrigation Pipe Existing 6" Irrigation Pipe Existing 8" Irrigation Pipe Existing 10" Irrigation Pipe Existing 12" Irrigation Pipe Existing 12" Irrigation Pipe Existing 12" Irrigation Pipe
Curb & Gutter ———————————————————————————————————	Propos Propos Propos Future	24" WTR	Existing Irrigation Pipe Existing 4" Irrigation Pipe Existing 6" Irrigation Pipe Existing 8" Irrigation Pipe Existing 10" Irrigation Pipe Existing 12" Irrigation Pipe
Curb & Gutter	Propos Propos Propos Erosior Future	24" WTR	Existing Irrigation Pipe Existing 4" Irrigation Pipe Existing 6" Irrigation Pipe Existing 8" Irrigation Pipe Existing 10" Irrigation Pipe
Curb & Gutter	Propos Propos Propos Erosior	24" WTR	Existing Irrigation Pipe  Existing 4" Irrigation Pipe  Existing 6" Irrigation Pipe  Existing 8" Irrigation Pipe
Curb & Gutter End Of Pav't Sidewalk Wall Building Building Cut Line Property Line Score Line Paint Stripe Paint Stripe Fence Wetland Buffer Wetland Perimeter Contour Ontrol Filter Fabric Fence	Propos Propos Propos	24" WTR	Existing Irrigation Pipe  Existing 4" Irrigation Pipe  Existing 6" Irrigation Pipe
Curb & Gutter End Of Pav't Sidewalk Wall Building Building Setback Property Line Cut Line Paint Stripe Paint Stripe Fence Wetland Buffer Wetland Perimeter Contour	Propos Propos	24" WTR	Existing Irrigation Pipe  Existing 4" Irrigation Pipe
Curb & Gutter  End Of Pav't  Sidewalk  Wall  Building  Setback  Property Line  Cut Line  Cut Line  Paint Stripe  Fence  Fence  Wetland Buffer  Wetland Perimeter	Propos	24" WTR	=
Curb & Gutter — End Of Pav't — — — — — — — — — — — — — — — — — — —	Propos	24"	
Curb & Gutter — End Of Pav't — — — — — — — — — — — — — — — — — — —	Propos	24"	Water Late
sed Curb & Gutter sed End Of Pav't			24" Water
sed Curb & Gutter  sed End Of Pav't  sed Sidewalk  sed Wall  sed Building  sed Setback  sed Property Line  sed Score Line	֓֞֞֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֓֓֡	18" WTR 18" WTR	18" Water
sed Curb & Gutter sed End Of Pav't sed Sidewalk sed Wall sed Building sed Setback sed Property Line sed Cut Line	Proposed	15" WTR 15" WTR	15" Water
sed Curb & Gutter	Proposed	12" WTR 12" WTR	12" Water
sed Curb & Gutter  sed End Of Pav't  sed Sidewalk  sed Wall  sed Building  sed Setback	Proposed	10" WTR 10" WTR	10" Water
sed Curb & Gutter sed End Of Pav't	Proposec	8" WTR 8" WTR 8" WTR	8" Water F
sed Curb & Gutter ===================================	Proposed	6" WTR 6" WTR 6" WTR	6" Water
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sed Curb & Gutter	Proposed	KT 178 U. KT U. KT	_
	Proposed	STM SE CAN	OA SCOTT SEWEL
sed Easement	Proposed	STM SD 18"	18" Storm Sawer
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sed Right-of-way	Proposed	0 S X X X X X X X X X X X X X X X X X X	
sed Centerline	Proposed	SIM SP	0
sed Flow Line	Proposed	SIM SP	4
sed Lot Line	Proposec	SF SI	Existing Storm Sewer Fipe
sed Electrical Routing EE-	Proposed		Existing Sanitary Force Main
sed irrigation Lateral	Proposed	30" SAN S	30 Sanitary
sed Irrigation Pipe	Proposed	SAN SP 24"	24" Sanitary Sewer
sed Water Pipe	Proposec	18" SAN SP 18" SAN SP	18" Sanitary
sed Water Lateral	Proposed	SP 15" SAN	15" Sanitary
sed Storm Pipe	Proposec	SAN SP 12"	12" Sanitary Sewer
sed Storm Kain Urain	Proposed		10" Sanita
sed Storm Under Drain	Proposed	SAN SP 8	
sed Sanitary Force Main	Propos	6" SAN SP 6" SAN SP	xisting 6" Sanitary
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and Coniform Course Dino		2	

Water Valve  Gas Valve  Gas Valve  Gas Valve  Gas Valve  Gas Valve  Gas Valve  Proposed Irrigation Meter  Proposed Irrigation Bend Tee Ware  Proposed Irrigation Bend Tee Ware  Proposed Irrigation Bend Tee  Proposed Irrigation Bend Tee  Proposed Irrigation Bend Tee  Proposed Irrigation Stand Pripe  Proposed Irrigation Thrust Block  Proposed Irrigation Stand Pripe  Proposed Irrigation Thrust Block  Proposed Irrigation Thrust Bl			8	Proposed Water Thrust Block
Water Valve  Water Valve  Gas Valve  Gas Valve  Fire Hydrant  Water Hydrant  Water Hydrant  Water Meter  Poposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Stand Proposed Irrigation I			•	Proposed Water Reducer
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Water Valve  Water Valve  Gas Valve  Gas Valve  Fire Hydrant  Future Sandrey Blowoff  Sandrey Manhole  Gandtan Manhole  Gandad Sign  Gasanitary Manhole  Gasanitary Manhole  Garles Basin  Fire Hydrant  Fire Hydrant  Fire Hydrant  Fire Hydrant  Future Sandrey Cap  Gandrey Manhole			<b>3</b> 008(	Proposed Water Temporary Blowoff
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Water Valve  Gas Valve  Gas Valve  Froposed Irrigation Meter  Frie Hydrant  Proposed Irrigation Backflow Device  Proposed Irrigation Standard Backflow Device  Proposed Irrigation Temporary Blowoff  Proposed Irrigation	₹ .	뒭	/ \	Water 221/2°
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Water Valve  Gas Valve  Fire Hydrant  Froposed Irrigation Meter  Fire Hydrant  Froposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee  Proposed Irrigation Stand Pipe  Proposed Irrigati	( <b>3</b> 00)	Temporary	₫	Proposed Water Valve
Water Valve  Water Valve  Gas Valve  Froposed Irrigation Meter  Froposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee  Proposed Irrigation Standard Blowoff  Storm Manhole  Sanitary Manhole  Catch Basin  Froposed Irrigation Standard Blowoff  Storm Manhole  Froposed Irrigation Standard Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Bend Tee  Proposed Irrigation Standard Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Bend Tee  Proposed Irrigation Bend Tee  Proposed Irrigation Standard Blowoff  Proposed Irrigation Bend Tee  Proposed Irrigation Bend Tee  Proposed Irrigation Standard Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Temporary Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Temporary Blowoff  Proposed Irrigation Temporary Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Temporary Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Temporary Blowoff  Proposed Ir	<u>8</u>			Proposed Water Backflow Device
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Water Valve  Water Valve  Gas Valve  Froposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Band Tee  Proposed Irrigation Bend Tee  Proposed Irrigation Stand Pripe  Proposed Irrigation Stand Pripe  Proposed Irrigation Stand Pripe  Proposed Irrigation Temporary Blowoff  Storm Manhole  Gashitary Manhole  Gashitary Reducer  Future Bend Tee  Future Be	ì	11/2	0	Sanitary
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Water Valve  Gas Valve  Fire Hydrant  Power Pole  Water Meter  Water Meter  Water Meter  Water Meter  Water Meter  Froject Bench Mark  Sanitary Manhole  Catch Basin  Combo Inlet  Combo Inlet  Telephone Pad  Discret Light  Discret Light  Discret Light  Day Proposed Irrigation Bend Tee  Wroposed Irrigation Bend Tee  Proposed Irrigation Stand Pipe  Proposed Irrigation Temporary Blowoff  Proposed Irrigation Thrust Block  Proposed		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	削	
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Water Valve  Gas Valve  Fire Hydrant  Power Pole  Water Meter  Water Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee  Proposed Irrigation 45° Bend  Proposed Irrigation 90° Bend  Proposed Irrigation Stand Pipe  Proposed Irrigation Temporary Blowoff  Proposed Irrigation Reducer  Proposed Irrigation Reducer  Proposed Irrigation Thrust Block  Proposed Irrigation Thrust Block		Proposed Inlet Protection Pillow	<b>a</b> []	
Water Valve  Gas Valve  Fire Hydrant  Power Pole  Power Pole  Power Meter  Electrical Pedestal  Project Bench Mark  Iron Rod  Sanitary Manhole  Storm Manhole  Catch Basin  Proposed Irrigation Meter  Proposed Irrigation Bend Tee Wivalve Proposed Irrigation 45° Bend Proposed Irrigation Stand Pipe Proposed Irrigation Temporary Blowoff Proposed Irrigation Temporary Blowoff Proposed Irrigation Reducer Proposed Irrigation Thrust Block			Ф	Existing Area Drain
Water Valve  Gas Valve  Fire Hydrant  Power Pole  Water Meter  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee Wivalve  Proposed Irrigation Bend Tee Wivalve  Proposed Water 22½° Bend  Proposed Irrigation Stand Pipe  Proposed Irrigation Temporary Blowoff  Storm Manhole  Syrridor  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee Wivalve  Proposed Irrigation 90° Bend  Proposed Irrigation Stand Pipe  Proposed Irrigation Standard Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Standard Blowoff  Proposed Irrigation Standard Blowoff	▼ 1	Proposed Irrigation Thrust Block		Existing Catch Basin
Water Valve  Gas Valve  Fire Hydrant  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee Wivalve  Proposed Irrigation Bend Tee Wivalve  Proposed Irrigation Bend Tee Wivalve  Proposed Irrigation 45° Bend  Proposed Irrigation 90° Bend  Proposed Irrigation Stand Pipe  Proposed Irrigation Temporary Blowoff  Proposed Irrigation Temporary Blowoff  Proposed Irrigation Standard Blowoff	<b>7</b> 0	Droposed Irrigation Deducer	<u></u>	
Water Valve  Gas Valve  Fire Hydrant  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee W/valve  Proposed Irrigation Bend Tee W/valve  Proposed Water 22½° Bend  Proposed Irrigation 45° Bend  Proposed Irrigation 90° Bend  Proposed Irrigation Stand Pipe  Proposed Irrigation Bend X	<b>₽</b>	Proposed Irrigation Standard Blowoff		
Water Valve       ™       Proposed Irrigation Meter         Gas Valve       ™       Proposed Irrigation Backflow Device         Fire Hydrant       ™       Proposed Irrigation Bend Tee Wivalve         Power Pole       Proposed Irrigation Bend Tee         Water Meter       Proposed Water 22½° Bend         Electrical Pedestal       b       Proposed Irrigation 45° Bend         Proposed Irrigation 90° Bend       Proposed Irrigation 90° Bend         Proposed Irrigation Stand Pipe       Proposed Irrigation Bend X	<b>8</b>	Proposed Irrigation Temporary Blowoff	Ø	
Water Valve  Gas Valve  Fire Hydrant  Power Pole  Water Meter  Electrical Pedestal  Project Bench Mark  Proposed Irrigation Backflow Device Proposed Irrigation Bend Tee Wivalve Proposed Water 22½° Bend Proposed Water 11¼° Bend Proposed Irrigation 90° Bend Proposed Irrigation 90° Bend Proposed Irrigation 90° Bend Proposed Irrigation 90° Bend Proposed Irrigation Stand Pipe	5  -  134  5	-	$\Diamond$	Existing Iron Rod
Water Valve  Gas Valve  Fire Hydrant  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee W/valve  Proposed Irrigation Bend Tee W/valve  Proposed Water 22½° Bend  Proposed Water 11¼° Bend  Proposed Irrigation 45° Bend  Proposed Irrigation 90° Bend  Proposed Irrigation 90° Bend	X	Stand Pip		Existing a toject perior main
Water Valve  Gas Valve  Fire Hydrant  Power Pole  Water Meter  Electrical Pedestal  Water Valve  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee W/valve  Proposed Water 11½° Bend  Proposed Irrigation 45° Bend  Proposed Irrigation 45° Bend	^	Proposed Irrigation 90° Bend	Þ	Evisting Project Bench Mark
Water Valve  Gas Valve  Fire Hydrant  Power Pole  Water Meter  Power Meter  Water Meter  Syll DOI Legell C  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Send Tee  Proposed Irrigation Bend Tee  Proposed Water 22½° Bend  Proposed Water 11½° Bend		Proposed Irrigation 45° Bend	ריים	Existing Electrical Pedestal
Water Valve  Gas Valve  Fire Hydrant  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Bend Tee  Proposed Irrigation Bend Tee  Proposed Irrigation Bend Tee  Proposed Irrigation Bend Tee  Proposed Water 22½° Rand	V,	Proposed Water 111/2° Bend	□ WM	Existing Water Meter
Water Valve  Water Valve  Cas Proposed Irrigation Backflow Device  Cas Proposed Irrigation Bend Tee	\	Droposed Mater 221% Band	(	Extensión - Old
Water Valve  Gas Valve  Fire Hydrant  Syrricol Legeric  Proposed Irrigation Meter  Proposed Irrigation Backflow Device  Proposed Irrigation Pand Tea Wildeline  Proposed Irrigation Band Tea Wildeline	-	8	9 -	
Water Valve  Water Valve  Water Valve  Water Valve  Water Valve  Proposed Irrigation Meter  Proposed Irrigation Backflow Device		٤	K	Existing Fire Hydrant
Water Valve  Water Valve  Water Valve  Water Valve  Water Valve	5		$X^{:}$	Existing Gas Valve
Water Valve W Dend		3	₹ 🔀	1
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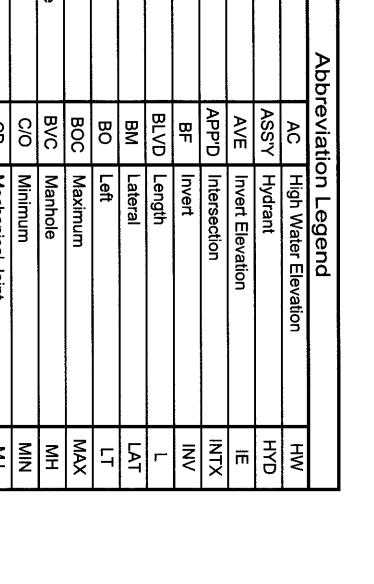
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CITY OF COLLEGE PLACE

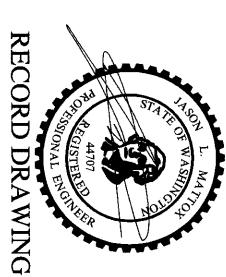
Utility Locate Call 811 2 Business Days Before Digging

7		

															-																·											
Horizontal	High Density Polyethylene		Ground	Galvanized Iron	Gas	Foot / Feet	Force Main	Flange	Fire Hydrant	Finished Grade	Finished Floor	End Vertical Curb	Electric	Elevation	Existing	Easement	End Curb Return	Edge Of Pavement	Down Spout	Ductile Iron Pipe	Diameter	Ductile Iron	Depth	Cement	Cubic Yard	Court	Concrete Sewer Pipe	Corrugated Polyethylene	Construction	Concrete	Compaction	Combination	Cleanout	Corrugated Metal Pipe	Centerline	Circle	Cement	Cast Iron	Cubic Feet	Catch Basin	Care Of	Begin Vertical Curve
HOKIN	HDPE	GV	GRD	ତ୍ର	G	FT	FM	FLG	Ī	FG	뀨	EVC	ELEC	E	EXTG	ESMT	ER	EOP	DS	DIP	DIA	DI	D	CEM	CY	CT	CSP	CPE	CONST	CONC	COMP	СОМВ	င္ပ	CMP	Ф	CIR	CEM	CI	CF	СВ	C/O	BVC
Vater Weter	+-	_	Water	Vertical	Vertical Curve	Underground Electric	Typical	Top Of Manhole	Temporary	Telephone	Top Of Curb	Temporary Benchmark	Thrust Block	Tangent	Storm		Standard	Station Centerline	Street	Sidewalk	Steel	Stainless Steel	Sheet	Right	Return	Restrained Joint	Right Of Way	Radius	Place	Połyvinyl Chloride	Point Of Vertical Intersection		Point Of Reverse Vertical Curve	Point Of Reverse Curve	Power Pole	Point Of Curve	Pavement	Overhead Electric	Number	Mechanical Joint	Minimum	Manhole
5 2	<b>€</b> 0	×	WTR	VERT	ζ	UGE	TYP	TOP	TEMP	TEL	ТС	ТВМ	ТВ	-	STM	SAN	STD	STA	ST	S/W	STL	SS	SHT	RT	RET	꼰	R/W	ZJ	믿	PVC	PVI	PT	PRVC	PRC	PP	PC	PAV"T	윘	No. or#	Z	ĭ N N	MH



Proposed Cement Concrete Proposed Wall Proposed Truncated Domes Proposed Asphalt Concrete Proposed Gravel Road Hatching Legend

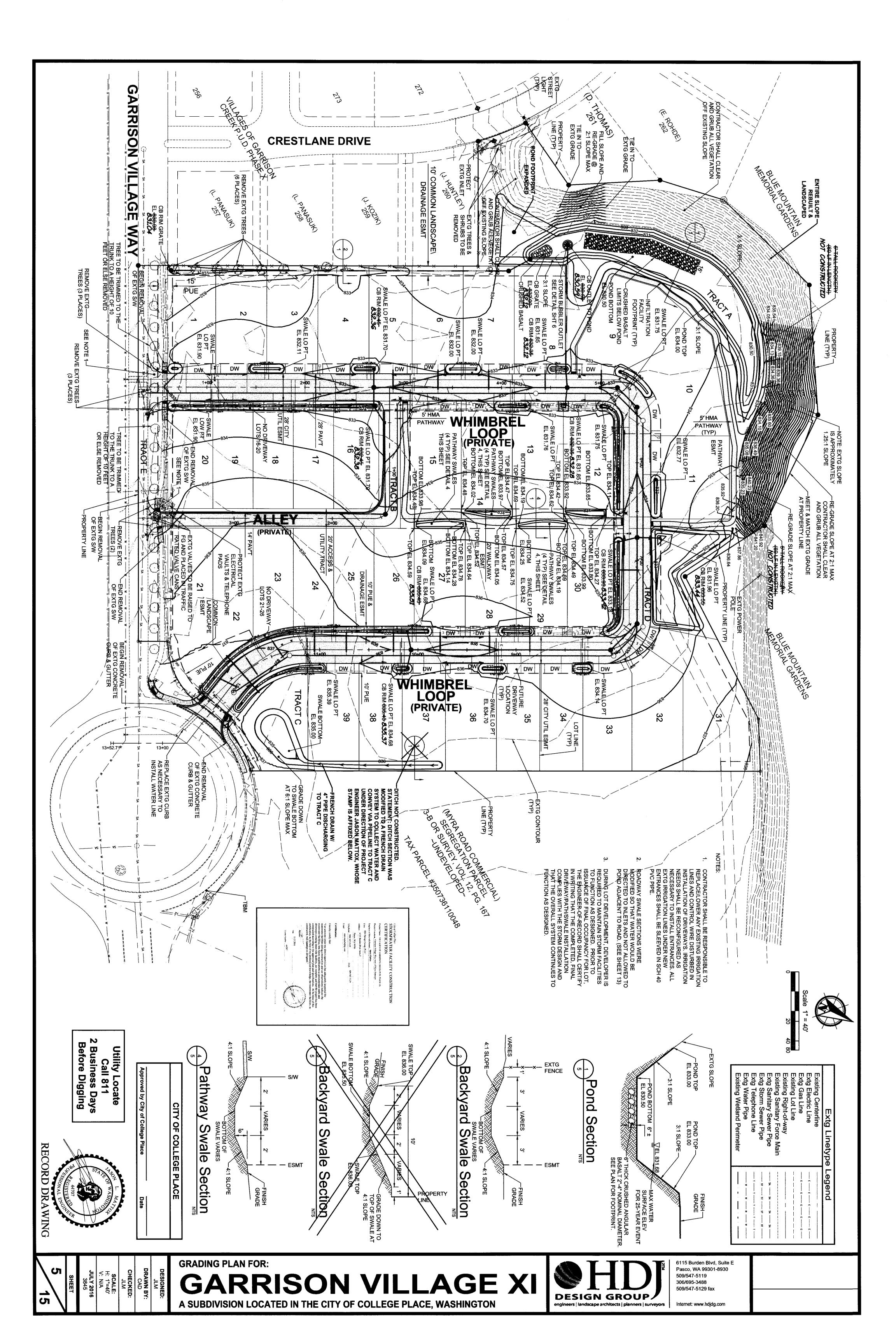


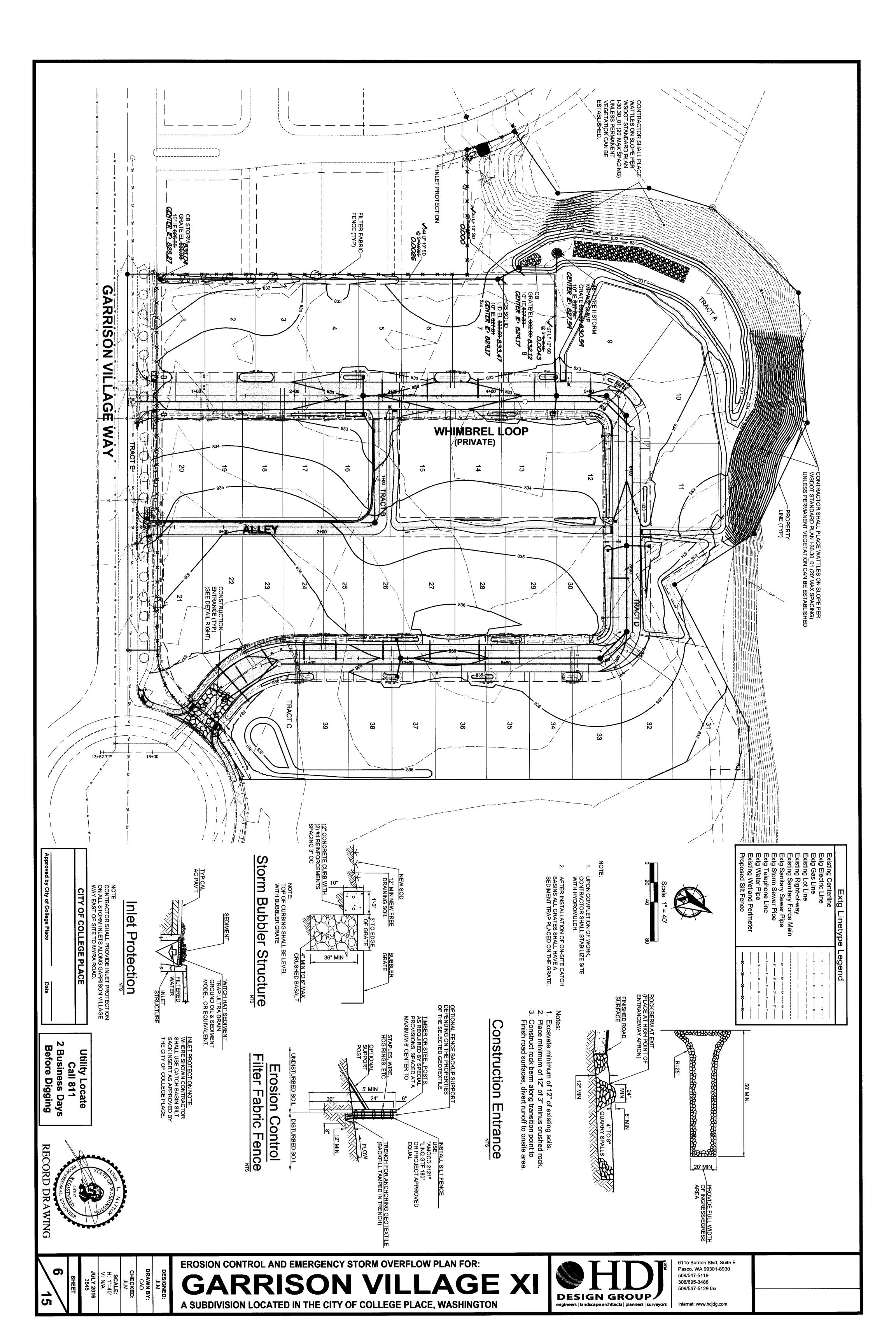
**MASTER LEGEND FOR:** DESIGNED:
JLM
DRAWN BY:
CAD
CHECKED:
JLM
SCALE:
H: N/A
V: N/A
JULY 2016
3845 **GARRISON VILLAGE XI** 

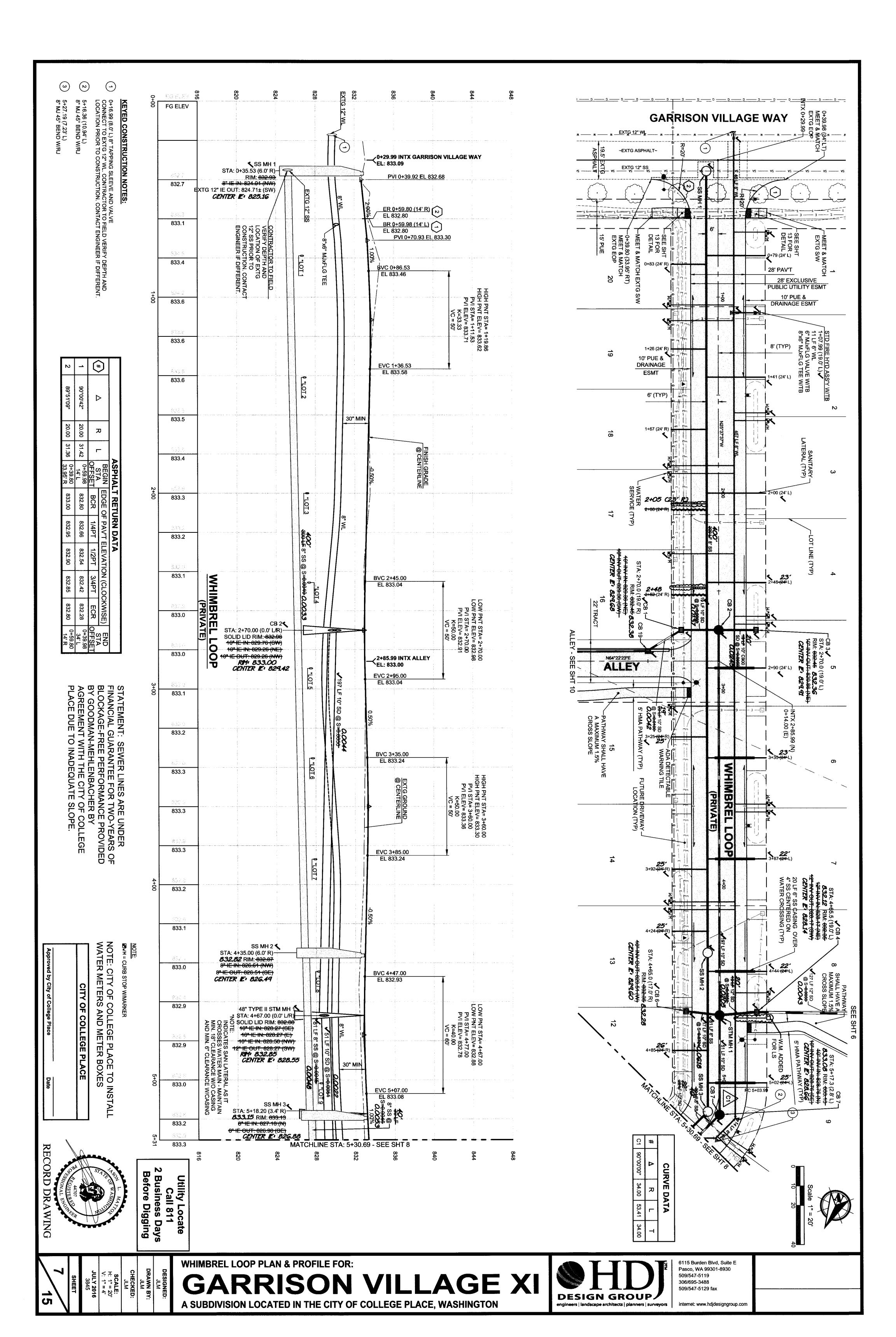
A SUBDIVISION LOCATED IN THE CITY OF COLLEGE PLACE, WASHINGTON

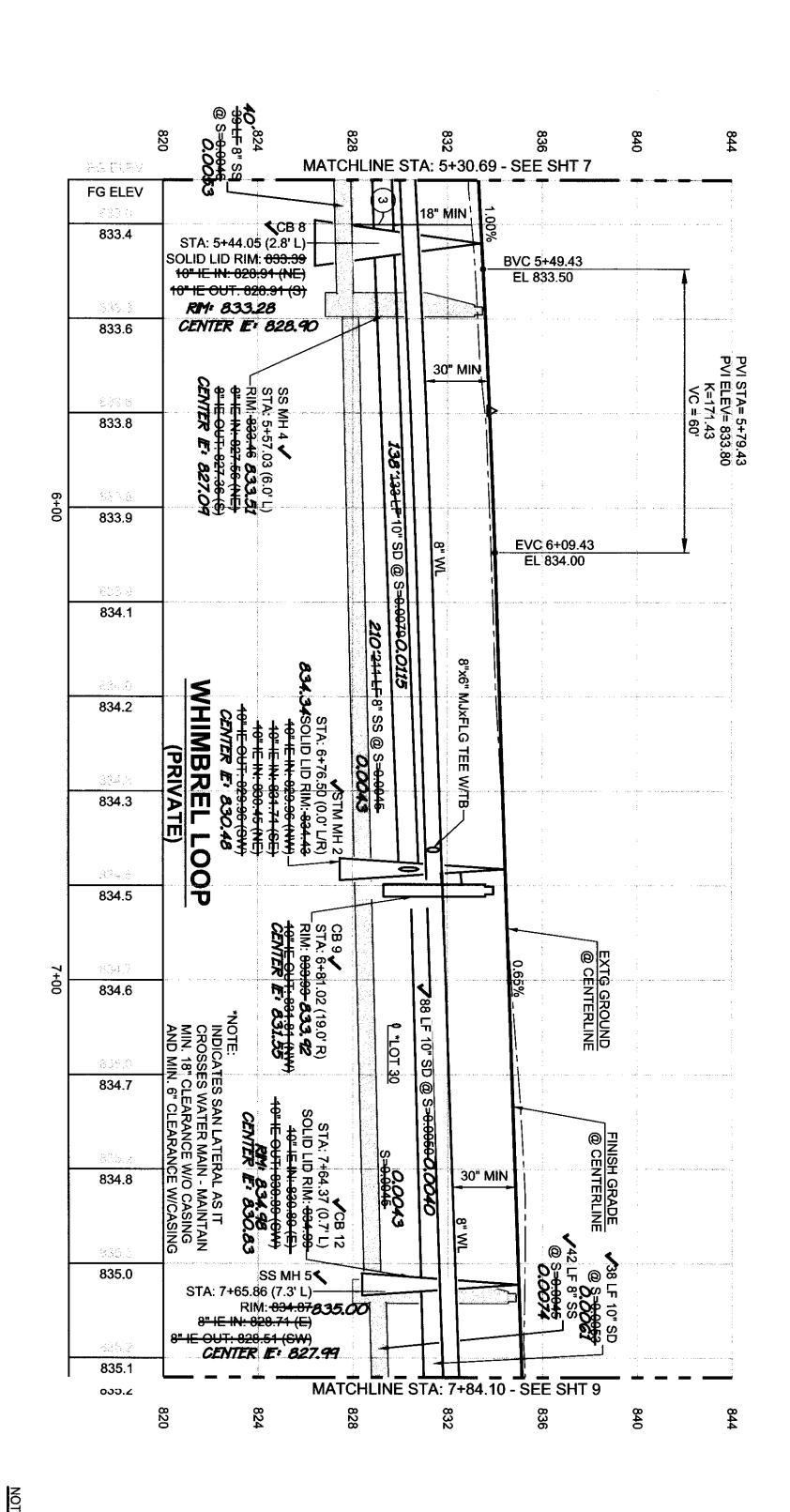


6115 Burden Blvd, Suite E Pasco, WA 99301-8930 509/547-5119 306/695-3488 509/547-5129 fax Internet: www.hdjdg.com







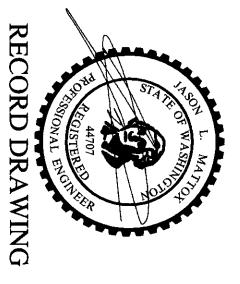


10 -WATER SERVICE (TYP) 10' PUE &
DRAINAGE
ESMT 8' (TYP) 28' EXCLUSIVE PUBLIC UTILITY ESMT 6+12 (24' L) 28' PAV'T PATHWAY CROSS—— SLOPE SHALL BE NO MORE THAN 1.5% 10' PUE & DRAINAGE ESMT 8' HMA PATHWAY - ADA DETECTABLE WARNING TILE 30 -PROPERTY LINE (TYP) 32 ω <u>-</u> (2) STD FIRE HYD ASS'Y W/TB 5+72.19 (7.23' L) 11 LF 6" WL 6" FLGXMJ VALVE W/RJ 8"x6" MJxFLG TEE W/TB MAINTAIN 18" MIN CLEARANCE FOR WATER MAIN CROSSING OVER SEWER MAIN. 7+66.58 (7.02' R) 8" MJ 45° BEND W/RJ KEYED CONSTRUCTION NOTES:

NOTE:

WM = CURB STOP W/MARKER

NOTE: CITY OF COLLEGE PLACE TO INSTALL WATER METERS AND METER BOXES CITY OF COLLEGE PLACE



DESIGNED:
JLM

DRAWN BY:
JLM

CHECKED:
JLM

SCALE:
H: 1" = 20'
V: 1" = 4'

JULY 2016
3845

2 Business Days Before Digging Utility Locate Call 811

WHIMBREL LOOP PLAN & PROFILE FOR: **GARRISON VILLAGE XI** A SUBDIVISION LOCATED IN THE CITY OF COLLEGE PLACE, WASHINGTON



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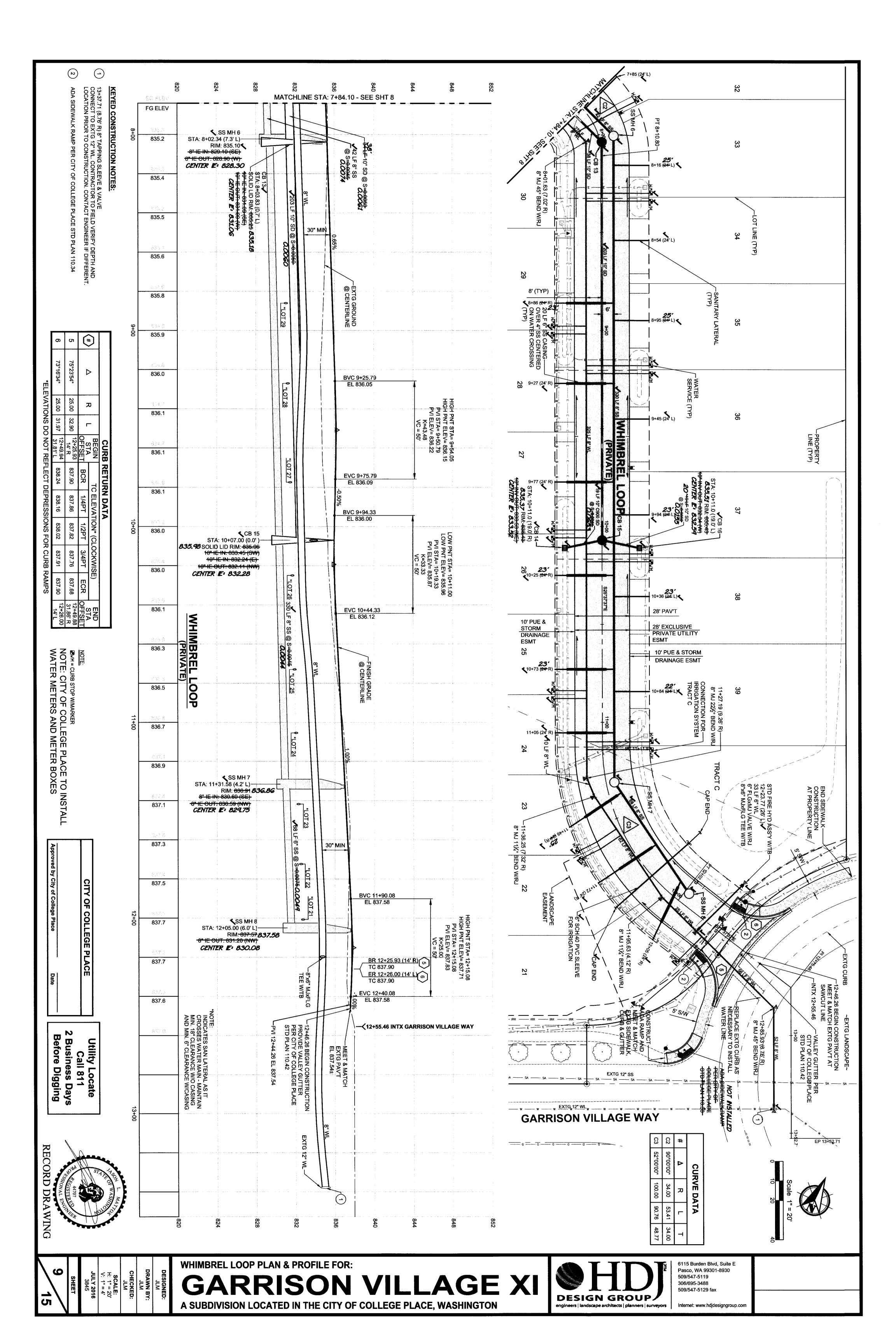
8 3

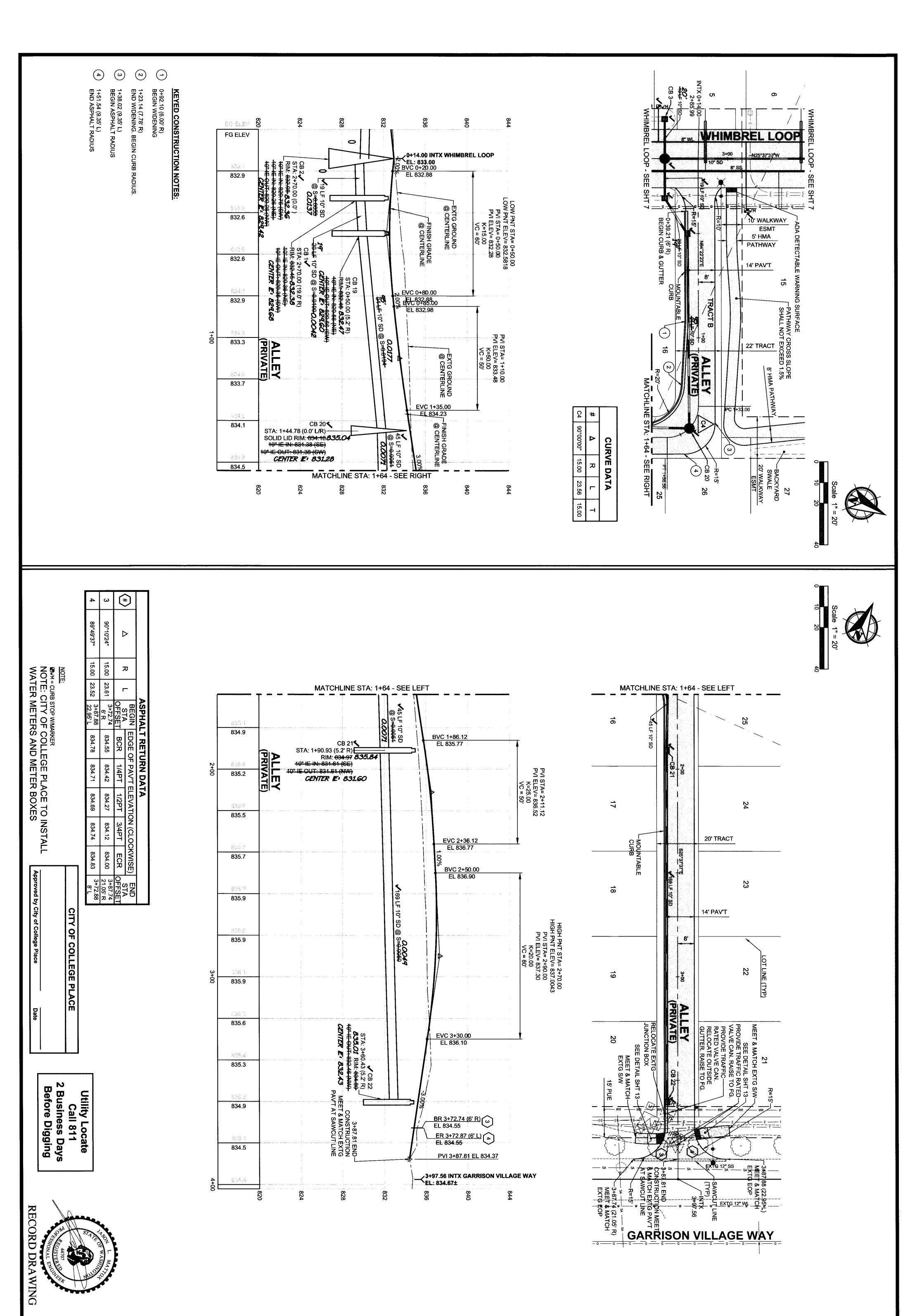
90°00'00"

34.00 34.00

**CURVE DATA** 

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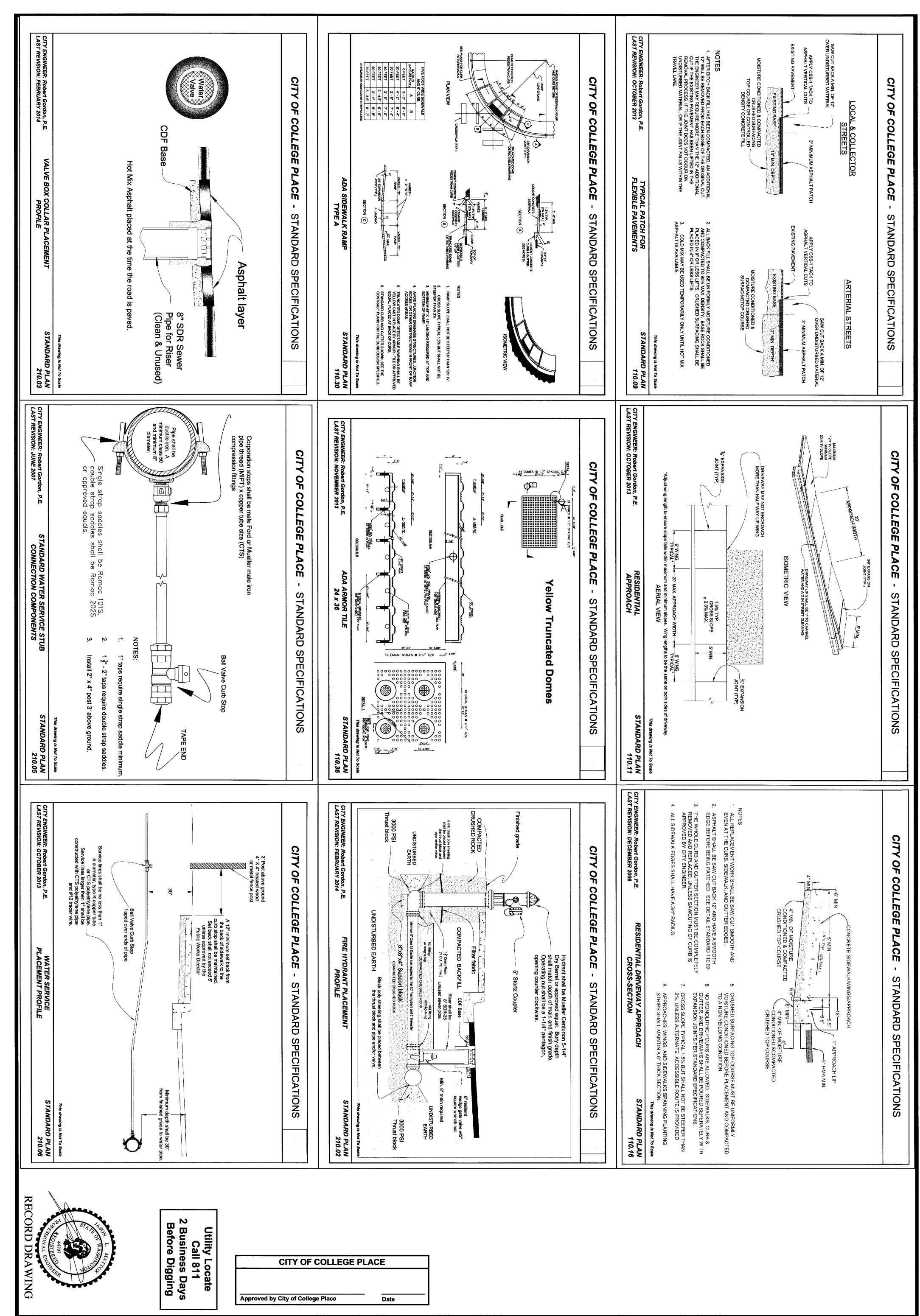




SHET SIGNED OF SUBDIVISION LOCATED IN THE CITY OF COLLEGE PLACE, WASHINGTON

6115 Burden Blvd, Suite E
Pasco, WA 99301-8930
509/547-5119
306/695-3488
509/547-5129 fax

Internet: www.hdjdesigngroup.com



CITY OF COLLEGE PLACE STANDARD DETAILS FOR:

GARRISON VILLAGE XI

A SUBDIVISION LOCATED IN THE CITY OF COLLEGE PLACE, WASHINGTON

DRAWN BY:
CAD
CHECKED:
JLM
SCALE:
H: N/A
V: N/A
V: N/A
JULY 2016
3845

DESIGNED:

6115 Burden Blvd, Suite E
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