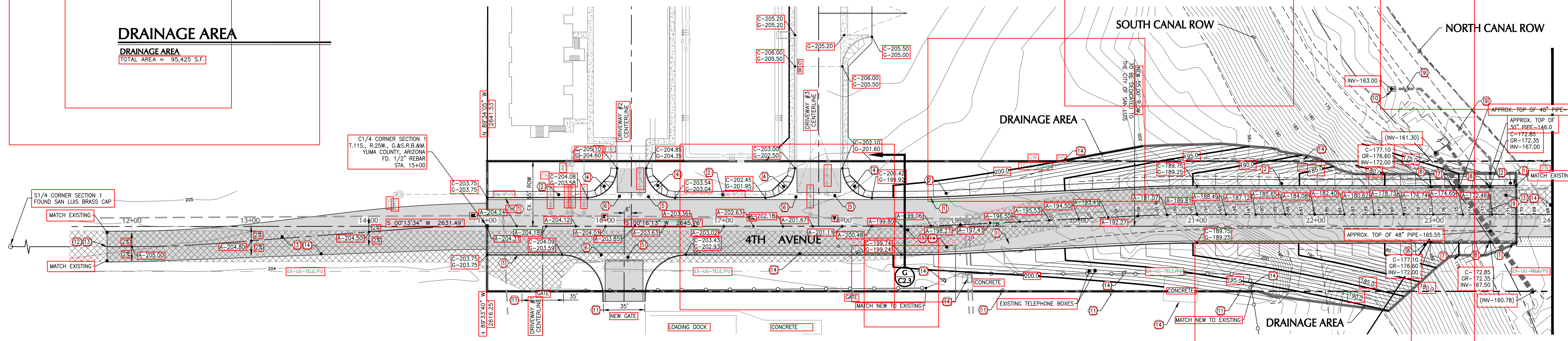


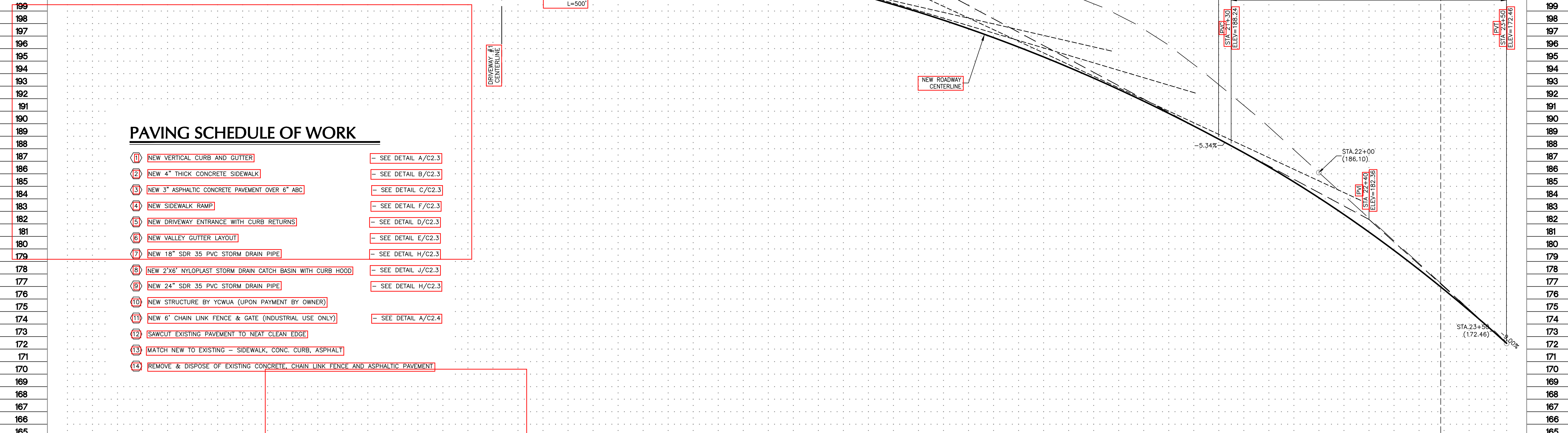
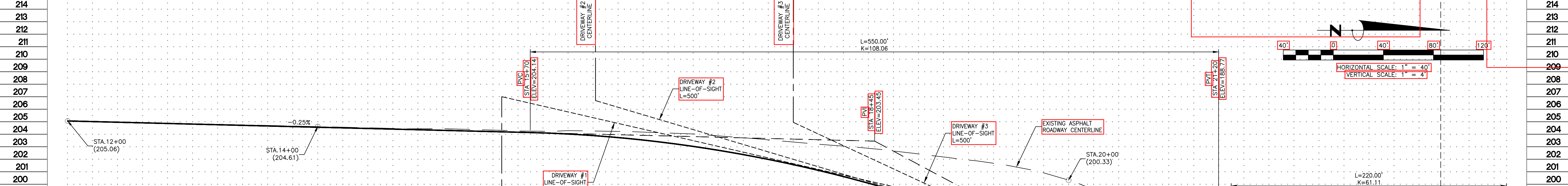
DRAINAGE AREA

DRAINAGE AREA
TOTAL AREA = 95,425 S.F.



MATCHLINE - STA 24+00 - SEE SHEET C2.2

215 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 23+50 215



PAVING SCHEDULE OF WORK

- | | | |
|----|--|---------------------|
| 11 | NEW VERTICAL CURB AND GUTTER | - SEE DETAIL A/C2.3 |
| 12 | NEW 4" THICK CONCRETE SIDEWALK | - SEE DETAIL B/C2.3 |
| 13 | NEW 3" ASPHALTIC CONCRETE PAVEMENT OVER 6" ABC | - SEE DETAIL C/C2.3 |
| 14 | NEW SIDEWALK RAMP | - SEE DETAIL F/C2.3 |
| 15 | NEW DRIVEWAY ENTRANCE WITH CURB RETURNS | - SEE DETAIL D/C2.3 |
| 16 | NEW VALLEY GUTTER LAYOUT | - SEE DETAIL E/C2.3 |
| 17 | NEW 18" SDR 35 PVC STORM DRAIN PIPE | - SEE DETAIL H/C2.3 |
| 18 | NEW 2'x6" NYLOPLAST STORM DRAIN CATCH BASIN WITH CURB HOOD | - SEE DETAIL J/C2.3 |
| 19 | NEW 24" SDR 35 PVC STORM DRAIN PIPE | - SEE DETAIL H/C2.3 |
| 20 | NEW STRUCTURE BY YCWUA (UPON PAYMENT BY OWNER) | |
| 21 | NEW 6" CHAIN LINK FENCE & GATE (INDUSTRIAL USE ONLY) | - SEE DETAIL A/C2.4 |
| 22 | SAWCUT EXISTING PAVEMENT TO NEAT CLEAN EDGE | |
| 23 | MATCH NEW TO EXISTING - SIDEWALK, CONC. CURB, ASPHALT | |
| 24 | REMOVE & DISPOSE OF EXISTING CONCRETE, CHAIN LINK FENCE AND ASPHALTIC PAVEMENT | |

UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM THE FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



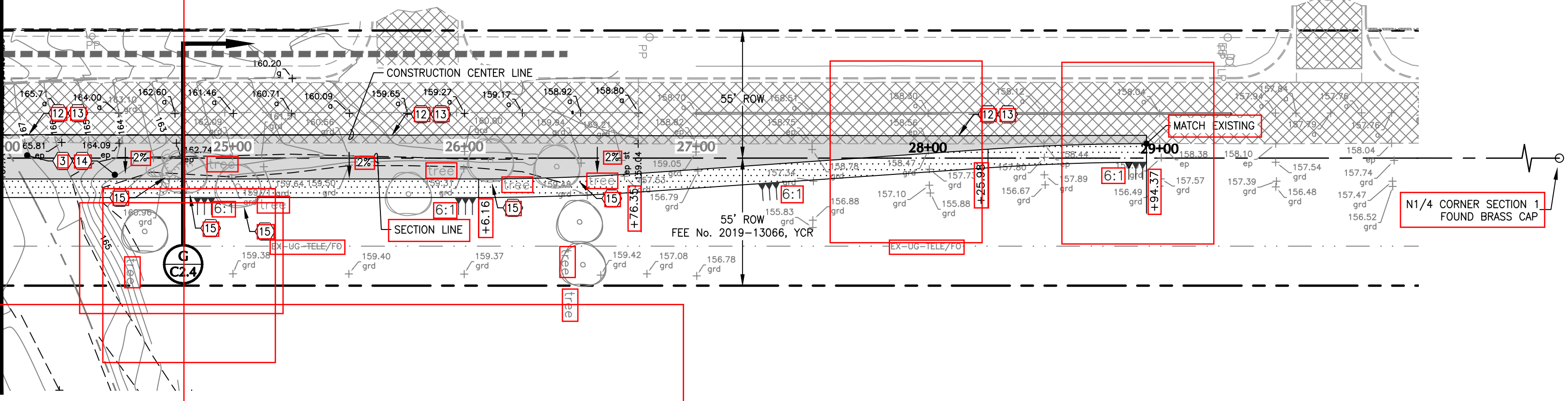
CDB VALLEY VIEW APARTMENTS
4TH AVENUE IMPROVEMENTS
SAN LUIS, ARIZONA
PAVING & GRADING PLAN

DAHL, ROBINS & ASSOCIATES, INC.
1560 S. 5th Avenue
Yuma, AZ 85364
Phone: (928) 819-0826
Fax: (928) 819-0826
www.dahlrobins.com
3/8/2022 9:58 AM

DATE: 10/5/2021
DESIGNED BY: SM/CR/KD
DRAWN BY: V&V/DRA
CHECKED BY: KAD
SURVEYED BY: MAC
PROJECT NO.: 21185
SHEET
C2.1

THIS DRAWING AND THE DATA CONTAINED HEREON ARE THE PROPERTY OF DAHL, ROBINS & ASSOCIATES, INC. AND SHALL NOT BE USED, REPRODUCED OR TRANSMITTED, WITHOUT THE PRIOR EXPRESS WRITTEN AUTHORIZATION OF THE COMPANY. NOR SHALL ANY DATA OR INFORMATION CONTAINED HEREON BE USED IN A MANNER INCONSISTENT WITH THE PRIOR EXPRESS WRITTEN AUTHORIZATION OF THE COMPANY.

MATCHLINE - STA 24+00 - SEE SHEET C2.1



PAVING SCHEDULE OF WORK

- 1 NEW VERTICAL CURB AND GUTTER - SEE DETAIL A/C2.3
- 2 NEW 4" THICK CONCRETE SIDEWALK - SEE DETAIL B/C2.3
- 3 NEW 3" ASPHALTIC CONCRETE PAVEMENT OVER 6" ABC - SEE DETAIL C/C2.3
- 4 NEW SIDEWALK RAMP - SEE DETAIL F/C2.3
- 5 NEW DRIVEWAY ENTRANCE WITH CURB RETURNS - SEE DETAIL D/C2.3
- 6 NEW VALLEY GUTTER LAYOUT - SEE DETAIL E/C2.3
- 7 NEW 18" SDR 35 PVC STORM DRAIN PIPE - SEE DETAIL H/C2.3
- 8 NEW 2'X6' NYLOPLAST STORM DRAIN CATCH BASIN WITH CURB HOOD - SEE DETAIL J/C2.3
- 9 NEW 24" SDR 35 PVC STORM DRAIN PIPE - SEE DETAIL H/C2.3
- 10 NEW STRUCTURE BY YCWUA (UPON PAYMENT BY OWNER)
- 11 NEW 6' CHAIN LINK FENCE & GATE (INDUSTRIAL USE ONLY) - SEE DETAIL A/C2.4
- 12 SAWCUT EXISTING PAVEMENT TO NEAT CLEAN EDGE
- 13 MATCH NEW TO EXISTING - SIDEWALK, CONC. CURB, ASPHALT
- 14 REMOVE & DISPOSE OF EXISTING CONCRETE, CHAIN LINK FENCE AND ASPHALTIC PAVEMENT
- 15 REMOVE & DISPOSE OF EXISTING TREE AND PALMTREE

UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM THE FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

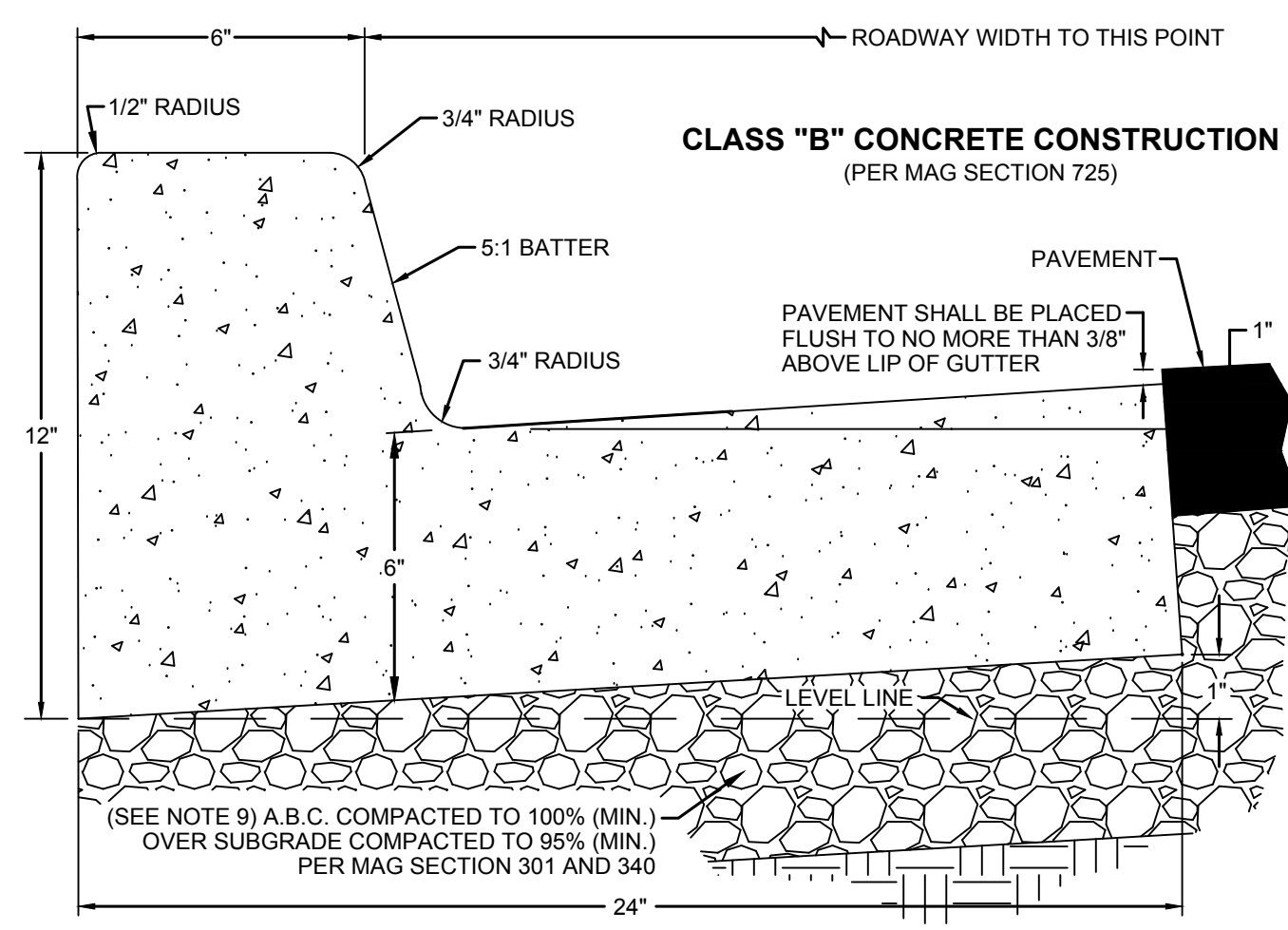


CDB VALLEY VIEW APARTMENTS
 4TH AVENUE IMPROVEMENTS
 SAN LUIS, ARIZONA
PAVING & GRADING PLAN

1560 S. 5th Avenue
 Yuma, AZ 85364
 Phone: (928) 819-0826
 Fax: (928) 819-0826
 www.dahlrobins.com
 3/8/2022 9:57 AM

DATE:	10/5/2021
DESIGNED BY:	SM/CR/KD
DRAWN BY:	V&V/DRA
CHECKED BY:	KAD
SURVEYED BY:	MAC
PROJECT NO.:	21185
SHEET	C2.2

THIS DRAWING AND THE DATA CONTAINED HEREON ARE THE PROPERTY OF DAHL, ROBINS & ASSOCIATES, INC. AND SHALL NOT BE USED, REPRODUCED OR TRANSFERRED, WITHOUT THE PRIOR EXPRESS CONSENT OF THE COMPANY. NOR SHALL ANY DATA OR INFORMATION CONTAINED HEREON BE USED IN A MANNER INCONSISTENT WITH THE PRIOR EXPRESS WRITTEN AUTHORIZATION OF THE COMPANY.

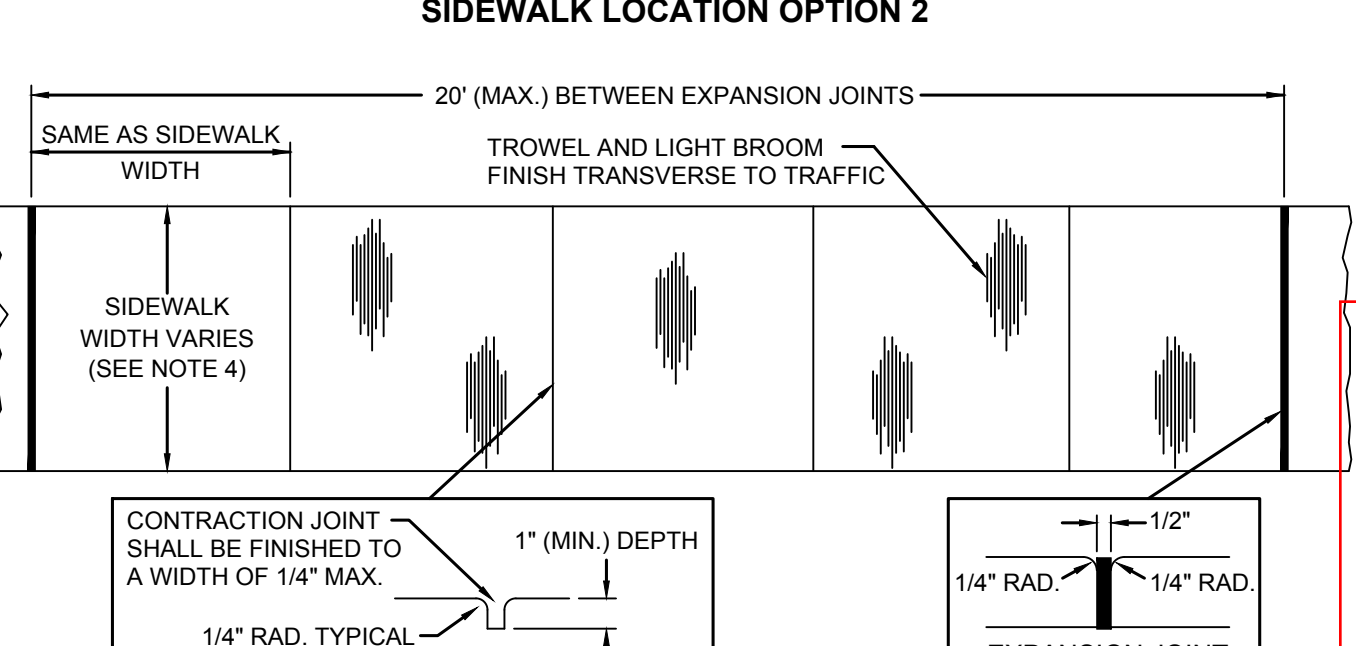
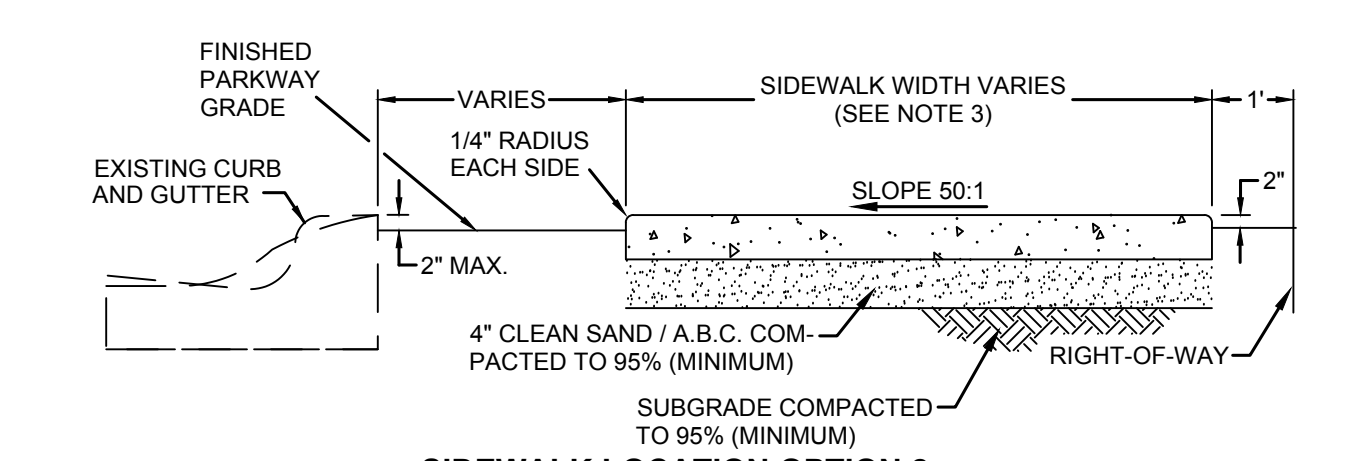
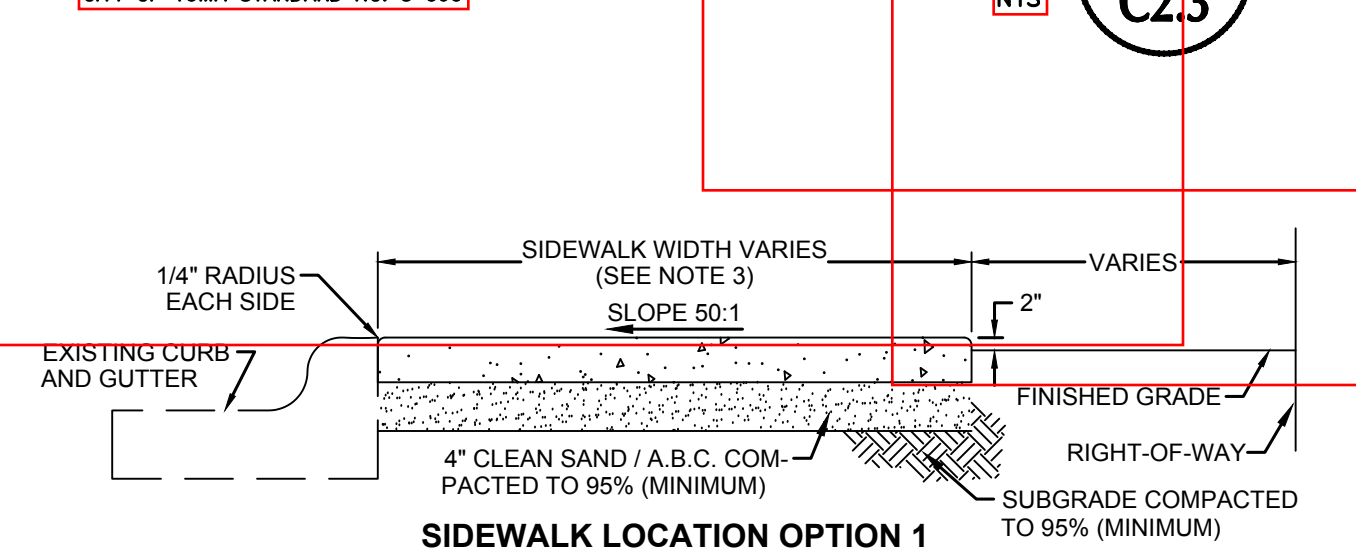


MINIMUM LONGITUDINAL GRADE = 0.20%

Issued: May 2019

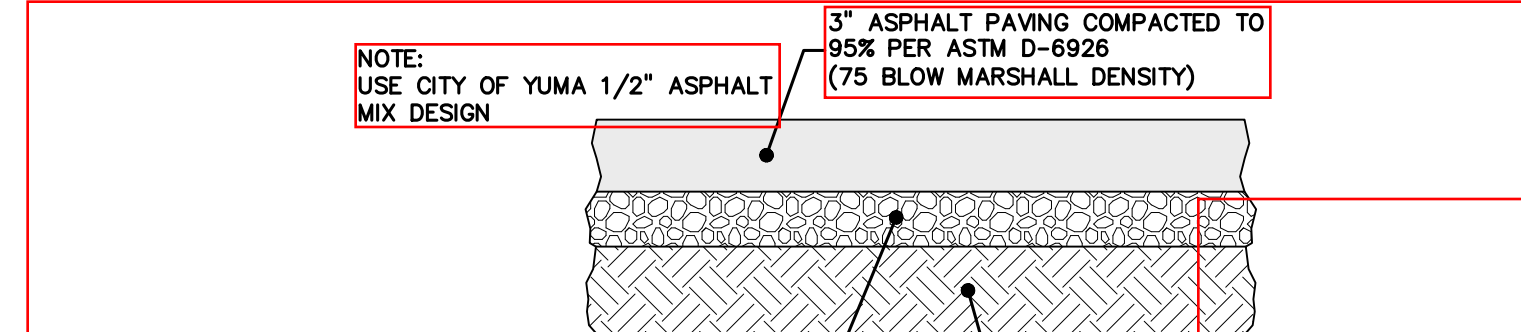
- NOTES**
- Vertical curb & gutter may be constructed by the use of forms or the concrete may be machine extruded.
 - When the pavement slopes away from the gutter, the slope of the gutter shall match the pavement's cross slope. Gutter depression will not be needed.
 - Contraction joint spacing shall be either hand tooled and/or saw cut and shall be placed ten feet (10') apart. Contraction joint shall have a minimum depth of one inch (1").
 - Expansion joints shall be located at tangent points, in curb returns, at structures and at a maximum of twenty foot (20') intervals. Expansion joint material shall comply with MAG Section 729.
 - Expansion joint material shall be placed in accordance with MAG Section 340.
 - Curb & gutter shall be finished per MAG Section 340. All exposed edges and hand tooled joints shall have a one-quarter inch (1/4") radius unless a larger radius is called for in the construction plans.
 - Vertical curb & gutter shall be used on all city streets unless otherwise approved by the City Engineer.
 - Additional information regarding joint construction can be seen in Standard Detail 3-135.
 - ABC thickness per street cross section Standard Details 2-005 to 2-035.

VERTICAL CURB AND GUTTER
CITY OF YUMA STANDARD NO. 3-060

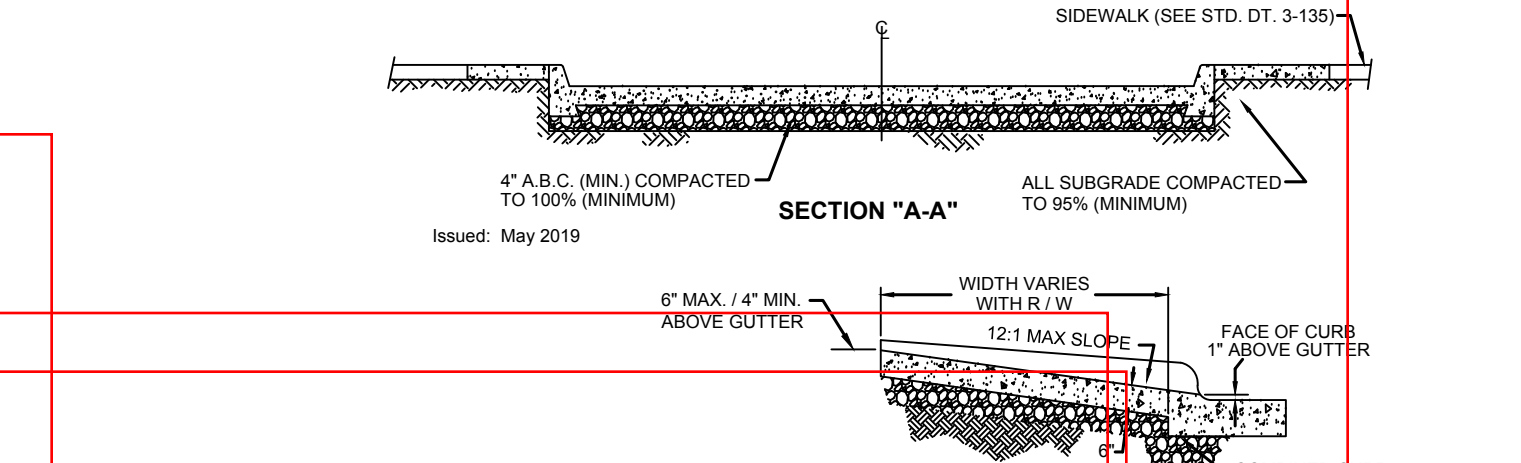
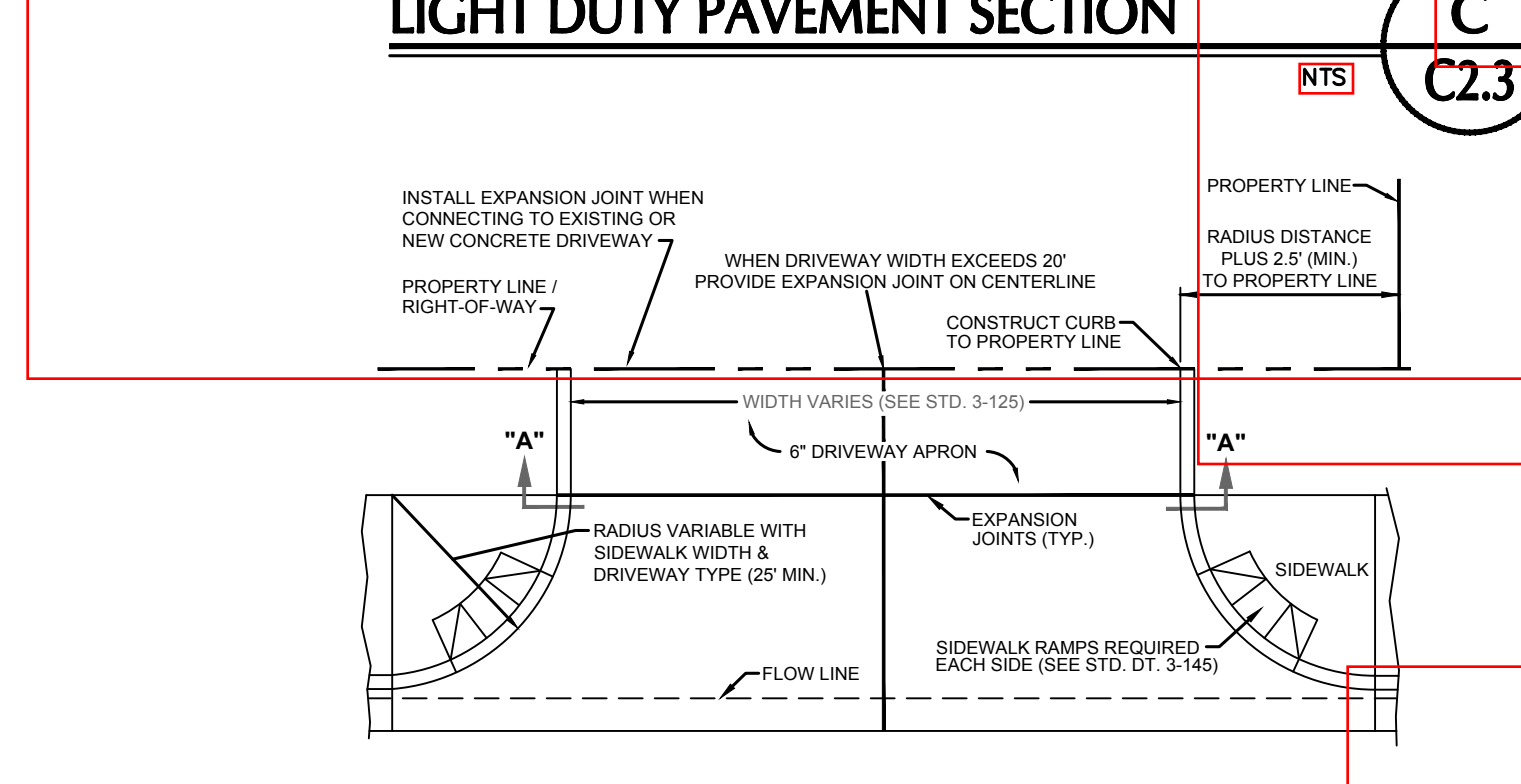


- NOTES**
- Expansion joints shall be located at tangent points, in curb returns, at structures and placed at 20' intervals (maximum). Expansion joint material shall comply with MAG Section 729.
 - Expansion joint material shall be placed in accordance with MAG Section 340.
 - When the back of the sidewalk abuts a concrete driveway or any other concrete paving or structure, an expansion joint shall be placed between the back of the sidewalk and such driveway or structure.
 - Sidewalk width varies with type of street. See Standard Details 2-010 to 2-035.
 - All sidewalks shall be 4" thick (min.) Class "B" concrete construction per MAG Section 725.
 - Sidewalks shall meet MAG Section 340.

SIDEWALKS
CITY OF YUMA STANDARD NO. 3-135

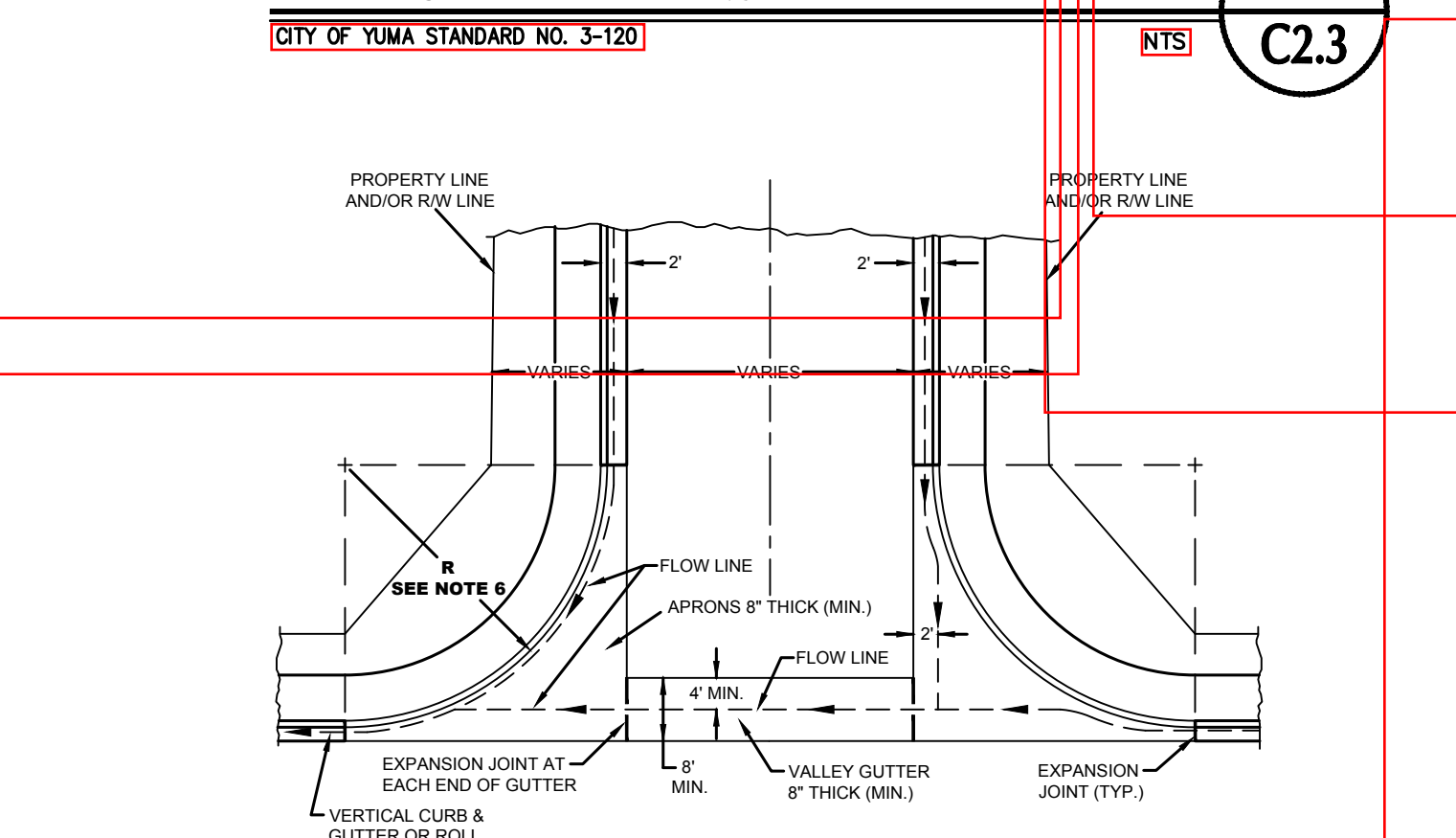


LIGHT DUTY PAVEMENT SECTION
CITY OF YUMA STANDARD NO. 3-120



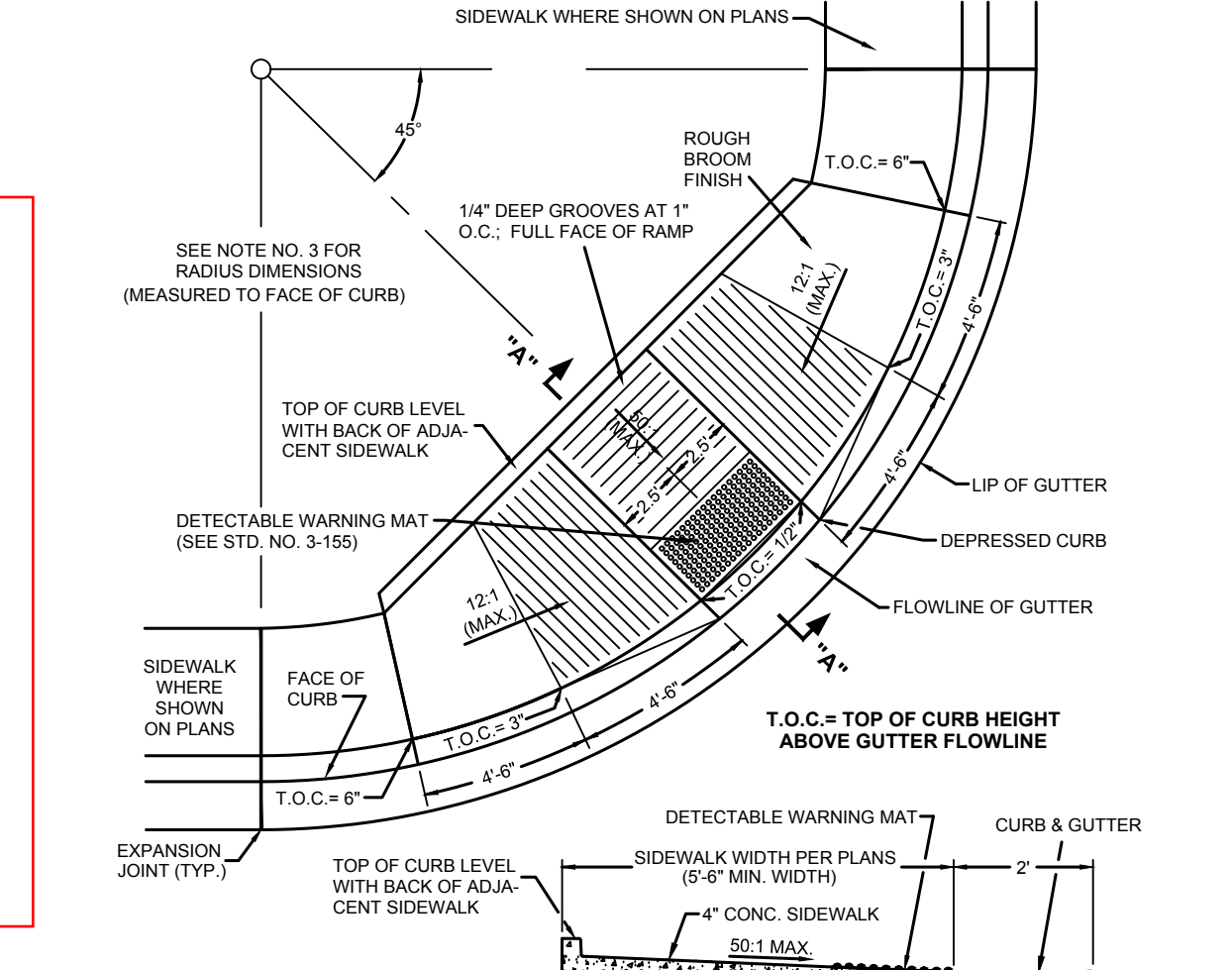
- NOTES**
- This standard is to be used on commercial, industrial and emergency access driveways.
 - The access turning radii shall accommodate the largest vehicle using this access on a daily basis.
 - Expansion joints shall be located at tangent points in curb returns, at structures and placed at 20' intervals (maximum). Expansion joint material shall comply with MAG Section 729.
 - Expansion joint material shall be placed in accordance with MAG Section 340.
 - A minimum of four inches (4") of A.B.C., compacted to a minimum of 100% shall be used under aprons, curbs and gutters.
 - All concrete shall be Class B per MAG Sec 725.

DRIVEWAY ENTRANCE WITH CURB RETURNS
CITY OF YUMA STANDARD NO. 3-120



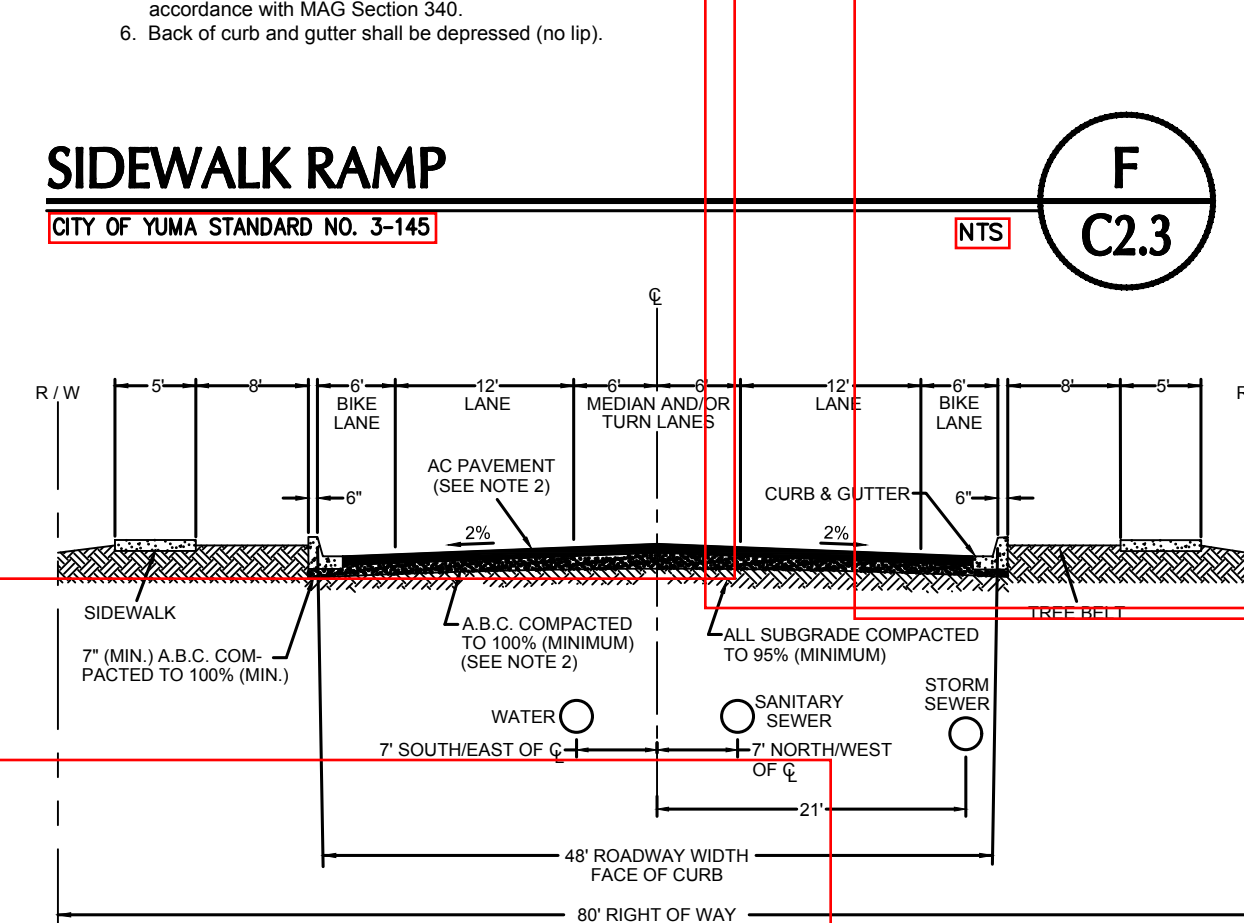
- NOTES**
- Concrete shall receive a longitudinal broom finish on all exposed surfaces.
 - Asphalt valley gutters are not allowed.
 - Six inches (6") of A.B.C. shall be placed under both aprons and valley gutter and shall be compacted to 100% of the maximum dry density determined by AASHTO T99, method C or D. (See Standard Drawing No. 3-300)
 - Expansion joints shall be located at tangent points in curb returns, at structures and at a maximum twenty foot (20') intervals. Expansion joint material shall comply with MAG Section 729.
 - Expansion joints shall not be placed in front of sidewalk ramp landings.
 - Expansion joint material shall be placed in accordance with MAG Section 340.
 - Radius requirements (face of curb):
A. Local streets: 25' minimum
B. Collector streets: 40' minimum
C. Arterial streets: 50' minimum
 - The curb return and apron construction shall be a monolithic pour.
 - Aprons & gutters to be constructed of Class "B" concrete per MAG Section 725.

VALLEY GUTTER LAYOUT
CITY OF YUMA STANDARD NO. 3-085



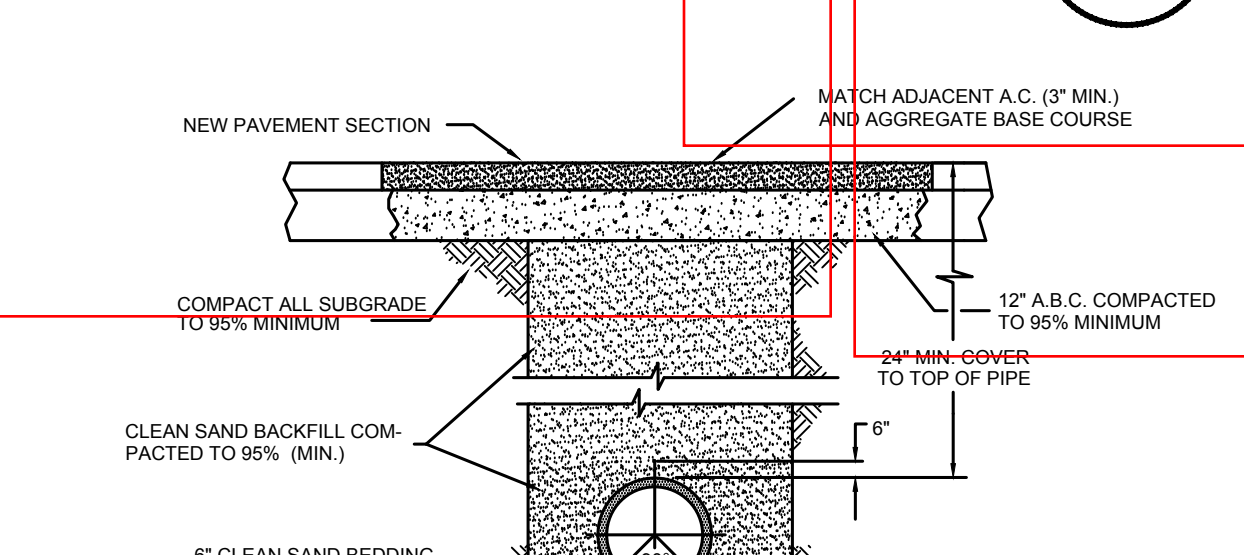
- NOTES**
- For Collectors, Arterials and Area Service Highways place ramp at each crosswalk location, in accordance with ADA requirements.
 - Construct with Class "B" concrete per MAG Section 725.
 - Radius requirements (face of curb):
A. Local street: 25' minimum
B. Collector streets: 40' minimum
C. Arterial streets: 50' minimum
D. Service highways: 50' minimum
 - Expansion joints shall be located at tangent points in curb returns, at structures and at a maximum 20' foot interval. Expansion joint material shall comply with MAG Section 729.
 - Expansion joint material shall be placed in accordance with MAG Section 340.
 - Back of curb and gutter shall be depressed (no lip).

SIDEWALK RAMP
CITY OF YUMA STANDARD NO. 3-145



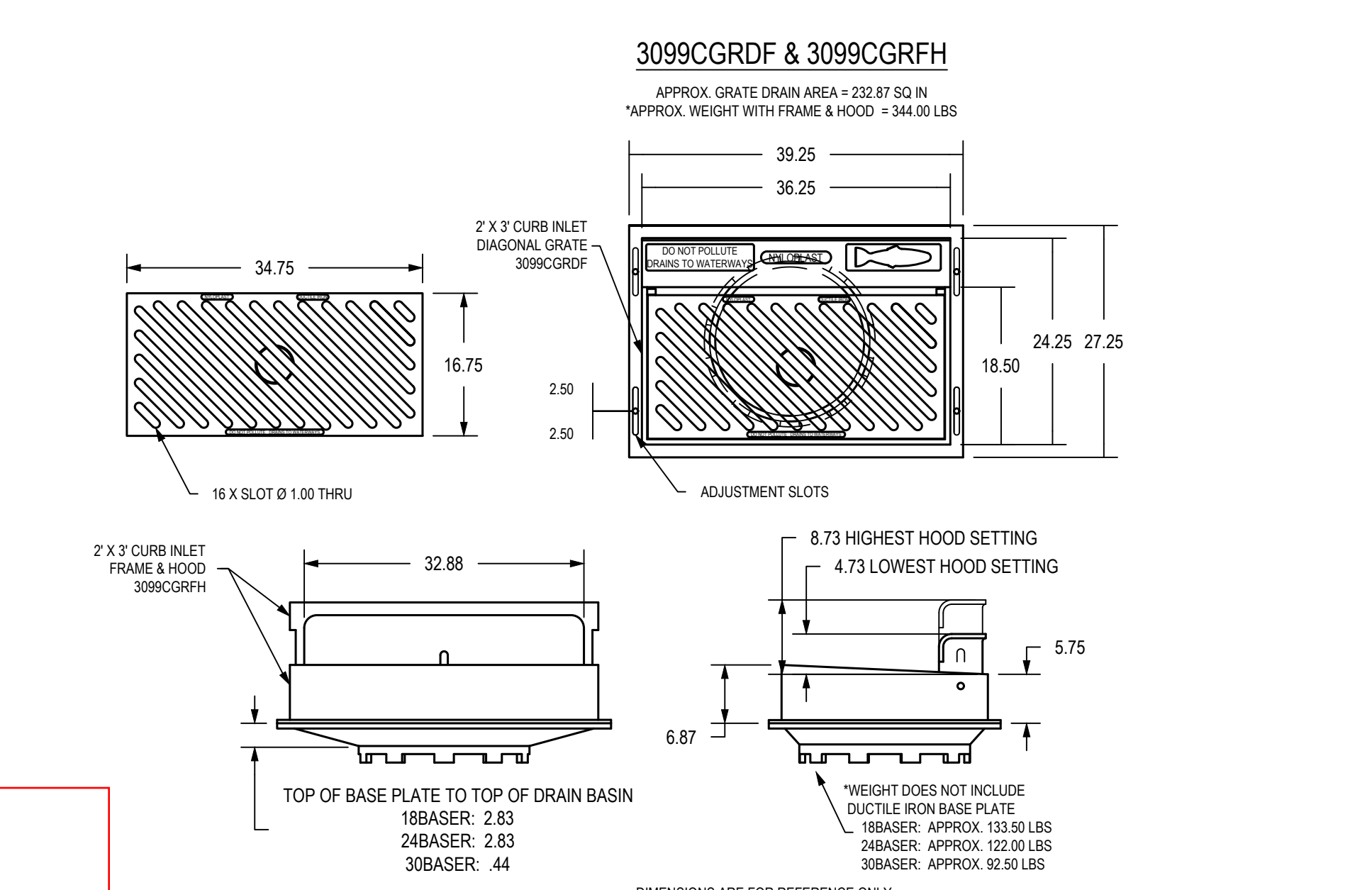
- NOTES**
- Structural design of combined thickness of base and surface shall be determined by soils test.
 - Minimum paving thickness: 3" plant hot mix asphalt surfacing over 10" of A.B.C. compacted to 100% of maximum density as determined by AASHTO T-99 method C or D. A.B.C. shall be per MAG Specifications, latest edition.
 - Sidewalk location detached from curb or as approved by the City Engineer.
 - All pavement marking and/or raised pavement marker material must be in accordance with ADOT standards, latest edition.
 - Bicycle facilities according to the City of Yuma General Plan and most recently adopted supporting facility plans.

COLLECTOR STREET
CITY OF YUMA STANDARD NO. 2-020



- NOTES**
- NATIVE SOIL MAY BE USED FOR BACKFILL WHEN APPROVED BY THE ENGINEER.
 - LEAN CONCRETE SHALL BE A ONE SACK CEMENT PER CUBIC YARD OF SAND SLURRY MIXTURE.
 - BEDDING SHOWN IS A MINIMUM STANDARD FOR SHALLOW TRENCHES AND ACCEPTABLE NATIVE BASE. EXACT TYPE OF BEDDING SHALL BE DETERMINED BY THE CITY ENGINEER.
 - DITCH SIDES SHALL BE SLOPED OR SHORED AS REQUIRED PER O.S.H.A. STANDARDS.
 - ALL TRENCHES SHALL BE COLD-PATCHED IF LEFT OPEN TO TRAFFIC. ALL TRENCHES SHALL BE PAVED (HOT MIX) WITHIN 2 WEEKS FROM ITS EXCAVATION.

TYP. STORM DRAIN TRENCH BACKFILL
CITY OF YUMA STANDARD NO. 2-020



3099CGRDF & 3099CGRFH
APPROX. GRATE DRAIN AREA = 232.87 SQ. IN.
APPROX. WEIGHT WITH FRAME & HOOD = 344.00 LBS.

3099CGRDF
3099CGRFH

ADJUSTMENT SLOTS

2" X 3" CURB INLET DIAGONAL GRATE 3099CGRDF

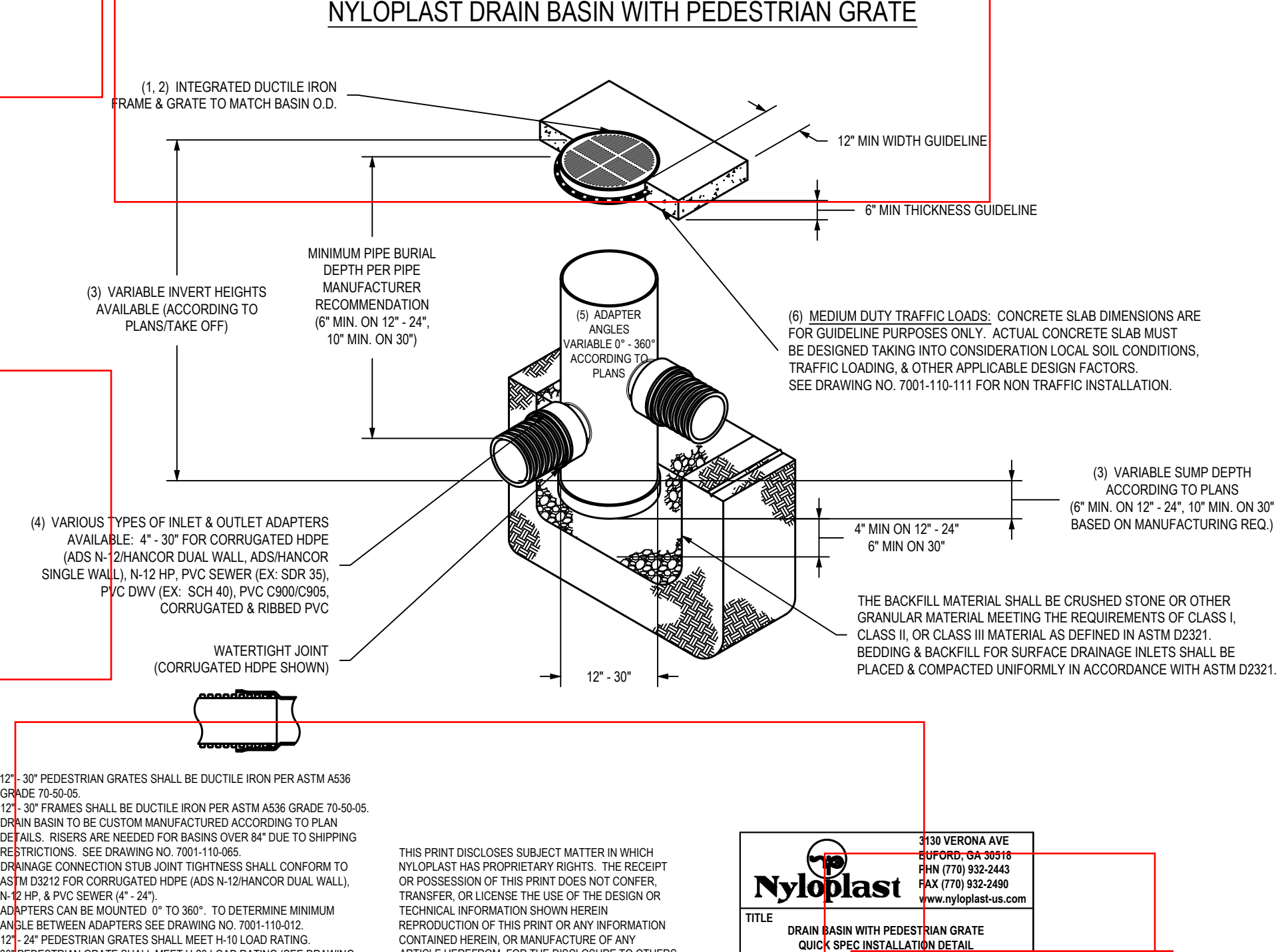
2" X 3" CURB INLET FRAME & HOOD 3099CGRFH

TOP OF BASE PLATE TO TOP OF DRAIN BASIN
18BASER: 2.83
24BASER: 2.83
30BASER: .44

8.73 HIGHEST HOOD SETTING
4.73 LOWEST HOOD SETTING

*WEIGHT DOES NOT INCLUDE DUCTILE IRON BASE PLATE
18BASER: APPROX. 133.50 LBS
24BASER: APPROX. 122.00 LBS
30BASER: APPROX. 92.50 LBS

INLET GRATE & CURB HOOD
NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE



- NOTES**
- INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.
 - MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (6" MIN. ON 12", 24", 10" MIN. ON 30")
 - VARIABLE INVERT HEIGHTS AVAILABLE ACCORDING TO PLANS/STATE OFF.
 - VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (ADS N-2) HANCOR DUAL WALL, ADS HANCOR SINGLE WALL, N-12 HD PVC SEWER (EX. SDR 35), PVC DWV (EX. SCH 40), PVC ODD/OCCS, CORRUGATED & RIBBED PVC.
 - PEDESTRIAN GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-02.
 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-02.
 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 700-110-066.
 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2212 FOR CORRUGATED HDPE (ADS N-2) HANCOR DUAL WALL, N-12 HD PVC SEWER (EX. SDR 35), PVC DWV (EX. SCH 40), CORRUGATED & RIBBED PVC.
 - ADAPTERS CAN BE MOUNTED 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS. SEE DRAWING NO. 700-110-012.
 - 12" - 24" PEDESTRIAN GRATES SHALL MEET H-10 LOAD RATING. 30" PEDESTRIAN GRATE SHALL MEET H-20 LOAD RATING (SEE DRAWING NO. 700-110-044 FOR H-20 TRAFFIC LOAD GUIDELINES).
- THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL, AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

AREA INLET CATCH BASIN
CITY OF YUMA STANDARD NO. 3-135

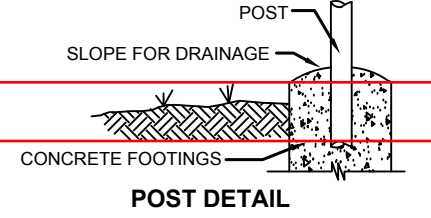
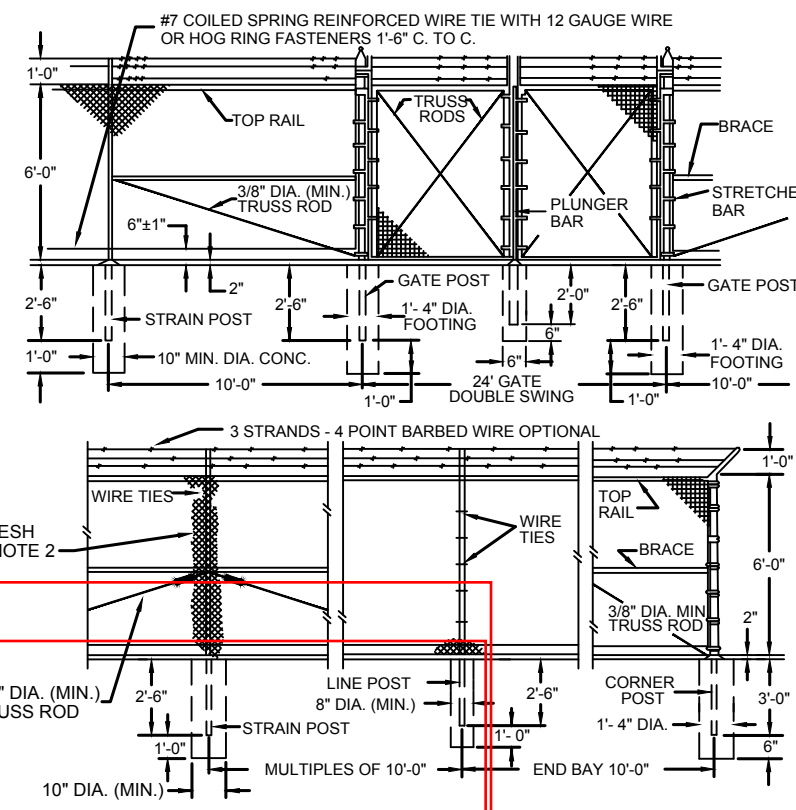
CDB VALLEY VIEW APARTMENTS
SW CORNER 4TH AVENUE & EAST MAIN CANAL
SAN LUIS, ARIZONA

PAVING DETAILS

DAHL, ROBINS & ASSOCIATES, INC.
1560 S. 5th Avenue
Yuma, AZ 85364
Phone: (928) 819-0825
Fax: (928) 819-0826
www.dahlrobins.com
3/8/2022 10:09 AM

DATE: 10/5/2021
DESIGNED BY: SM/CR/KD
DRAWN BY: V&W/DRA
CHECKED BY: KAD
SURVEYED BY: MAC
PROJECT NO.: 21185
SHEET: C2.3

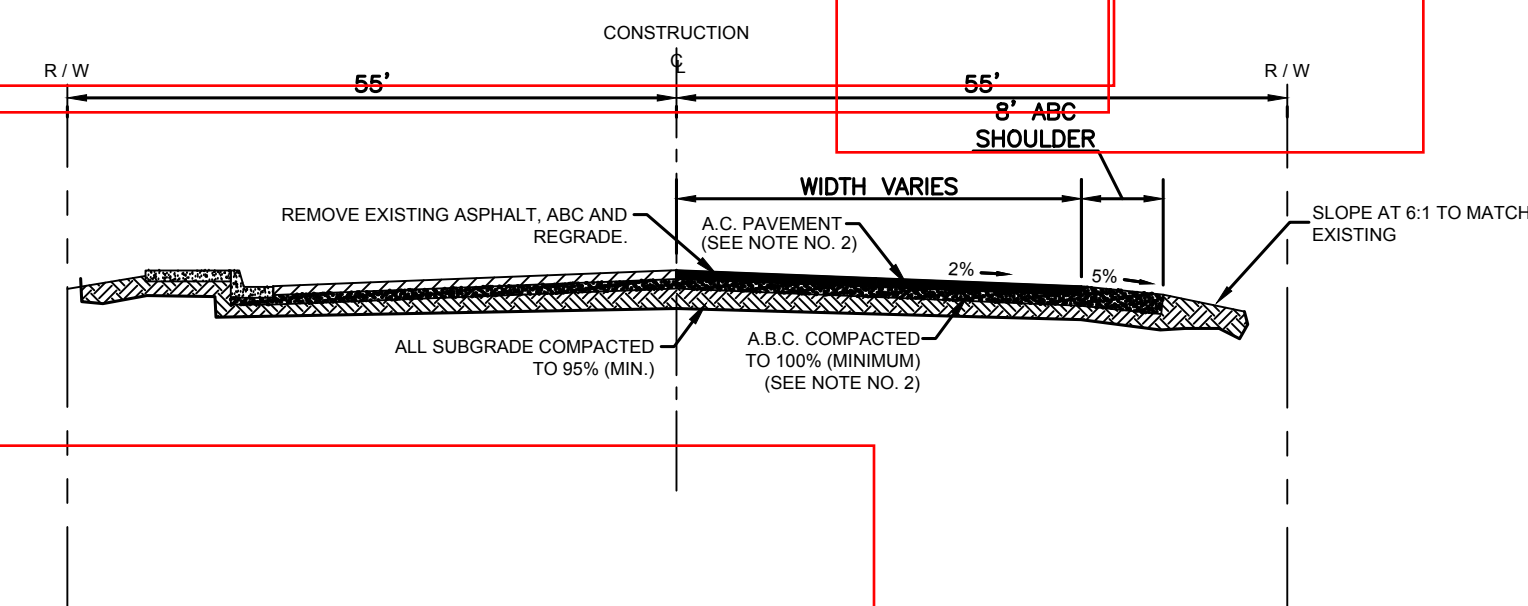
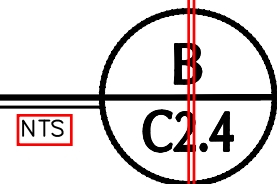
MEMBER	AISC SIZE	OUTSIDE DIA.
1 CORNER POST	2 1/2"	2.875"
2 LINE POST	1 1/2"	1.900"
3 STRAIN POST	1 1/2"	1.900"
4 BRACE	1 1/4"	1.666"
5 STRETCH BAR	3/16" X 3/4" FLAT	3/16" X 3/4" FLAT
6 GATE POST	3 1/2"	4.000"
7 TOP RAIL	1 1/4"	1.666"



NOTES

- All concrete shall be Class C per MAG Section 725.
- Fence fabric shall be nine gauge / 2" mesh chain link.
- Strain posts shall be spaced at 500' intervals (maximum).
- Both corner and strain posts shall have at least one strain panel.
- All posts shall be capped and plumb.
- Fence shall not extend into visibility triangles at alleys, driveways and street intersections.
- Fences built in front yard setbacks shall have a maximum height of three feet (3').
- Construction and materials shall conform to MAG Sections 420 and 772 respectively. See MAG Table 772-1 for weight of member.

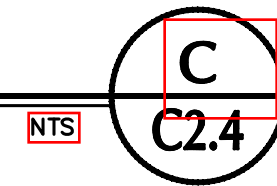
6' CHAIN LINK FENCE & GATE (INDUSTRIAL USE ONLY)



NOTES

- Structural design of combined thickness of base and surface shall be determined by soils test.
- Minimum paving thickness shall be 3" plant hot mixed asphalt surfacing over 6" of A.B.C. compacted to 100% of maximum density as determined by AASHTO T-99 method C or D. See Standard Detail 3-015 for A.B.C. thickness required. A.B.C. shall be per MAG Specifications.
- Sidewalk location adjacent to curb or as approved by the City Engineer.
- See Standard Detail 3-035 for grading behind sidewalk.
- Extend aggregate base course beneath curb & gutter. See Standard Detail 3-060.

LOCAL 2 LANE STREET

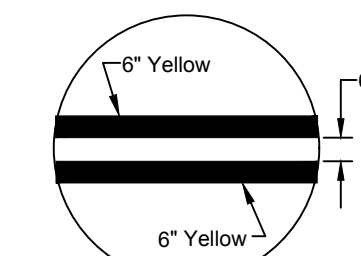


PAVEMENT MARKING NOTES:

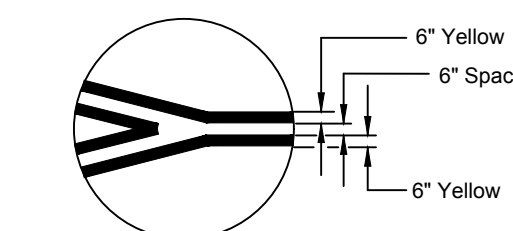
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE, FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED.
- THE DIMENSIONS SHOWN FOR PAVEMENT STRIPING ARE TO THE CENTER OF THE STRIPING, OR IN THE CASE OF DOUBLE STRIPING TO THE CENTER OF THE DOUBLE STRIPING AND THE FACE OF THE CURB.
- AT THE COMPLETION OF THE FINAL PAVEMENT SURFACE, CENTER LINES, EDGE LINES AND LANE LINES SHALL BE STRIPED WITH ONE APPLICATION OF STANDARD REFLECTORIZED TRAFFIC PAINT, AT THE LOCATION OF THE PERMANENT STRIPING. THIS APPLICATION SHALL BE PLACED WITHIN 7 DAYS.
- THE FINAL STRIPING SHALL BE A 0.060 INCH THICKNESS OF HOT-SPRAYED THERMOPLASTIC REFLECTORIZED STRIPING, PLACED BETWEEN 30 AND 60 DAYS AFTER THE INITIAL STRIPING, AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 50 DEGREES F FOR THE PLACEMENT OF THERMOPLASTIC STRIPING.
- WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY APPROVED METHODS. PAINTING OVER STRIPING DOES NOT CONSTITUTE STRIPE OBLITERATION. TRAFFIC PAINT SHALL BE OBLITERATED BY A METHOD THAT IS IN COMPLIANCE WITH OSHA 29 CFR, PART 1926, LEAD EXPOSURE IN CONSTRUCTION, INTERIM FINAL RULE. SAND BLASTING IS PREFERRED. IF LEAD EXPOSURE PREVENTION MEASURES ARE REQUIRED, THE CONTRACTOR SHALL ENSURE THAT ALL PERSONNEL PRESENT ON THE JOB SITE ARE NOTIFIED OF THE ACTIVITY AND ADVISED OF NECESSARY PRECAUTIONS TO BE TAKEN TO AVOID CONTAMINATION BY LEAD COMPOUNDS. THE CONTRACTOR SHALL SUBMIT A LEAD EXPOSURE PREVENTION PLAN TO THE ENGINEER FOR REVIEW, A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY STRIPING OBLITERATION ACTIVITIES.
- THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING AND MARKINGS.
- THE PERMANENT PAVEMENT MARKING PLANS MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT ARROWS AND LEGENDS SHALL BE EXTRUDED THERMOPLASTIC PAVEMENT MARKINGS PER THE SPECIAL PROVISIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SIGNING NOTES:

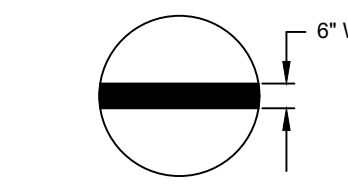
- ALL SIGNS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), ADOT SIGNING AND MARKING STANDARDS, THE ADOT TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS, YUMA COUNTY STANDARD PRACTICE, THESE PLANS AND THE SPECIFICATIONS.
- SIGNING MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.
- ALL FACE OF BOLTS USED FOR MOUNTING SIGNS SHALL BE PAINTED THE SAME COLOR AS THE SIGN PANEL.
- ALL STATION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL SIGN LOCATIONS WITH THE ENGINEER PRIOR TO THE INSTALLATION OF ALL SIGNS.
- ALL SIGNS SHALL BE MADE OF FLAT SHEET ALUMINUM PANELS WITH REFLECTIVE SHEETING AND DIRECT APPLIED CHARACTERS PER SECTIONS 608-2.07 AND 608-2.09 OF THE ADOT STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL UNDERGROUND UTILITY LOCATIONS WHERE NEW POSTS ARE INSTALLED.
- NORMAL MOUNTING HEIGHT FOR ALL NEWLY INSTALLED SIGNS SHALL BE 7 FEET MINIMUM ABOVE NEAR EDGE OF PAVEMENT OR TOP OF CURB.
- ALL SIGN POSTS ARE PER YCPW STD 3-390 "U" CHANNEL (3# / FT) POST.
- STREET SIGN BRACKETS TO BE VULCAN MODEL VSS-1/VSS-1UC OR EQUIVALENT AS APPROVED BY THE COUNTY ENGINEER. SIGN BRACKET SLOTS ARE TO BE SIZED FOR EXTRUDED ALUMINUM SIGN BLANKS. SIGN BLANKS ARE TO BE 8" X 24" MINIMUM OF EXTRUDED ALUMINUM. LETTERS ARE TO BE 6" HIGH OF PRISMATIC TYPE 6 GRADE REFLECTIVE WHITE ON PRISMATIC GRADE TYPE 6 REFLECTIVE GREEN BACKGROUND (BOTH SIDES).



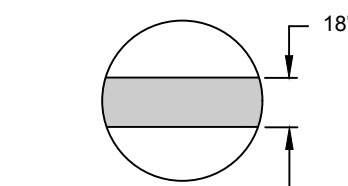
6" Double Yellow



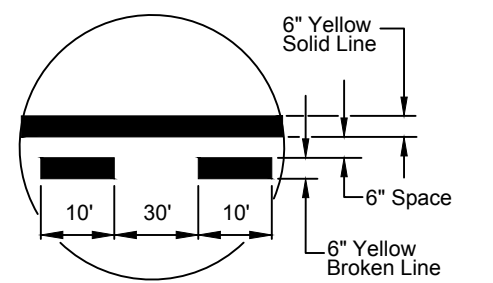
6" Double Yellow Taper Transition



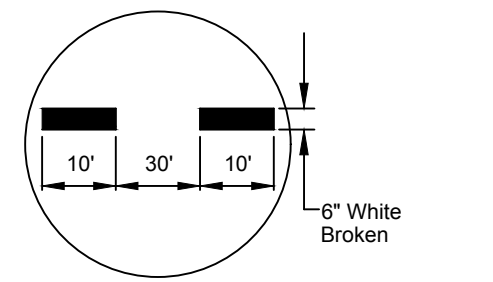
6" Solid White



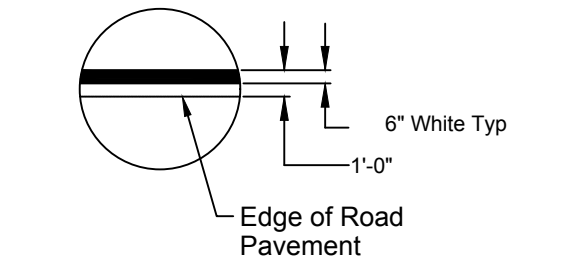
18" Solid White Stop Bar



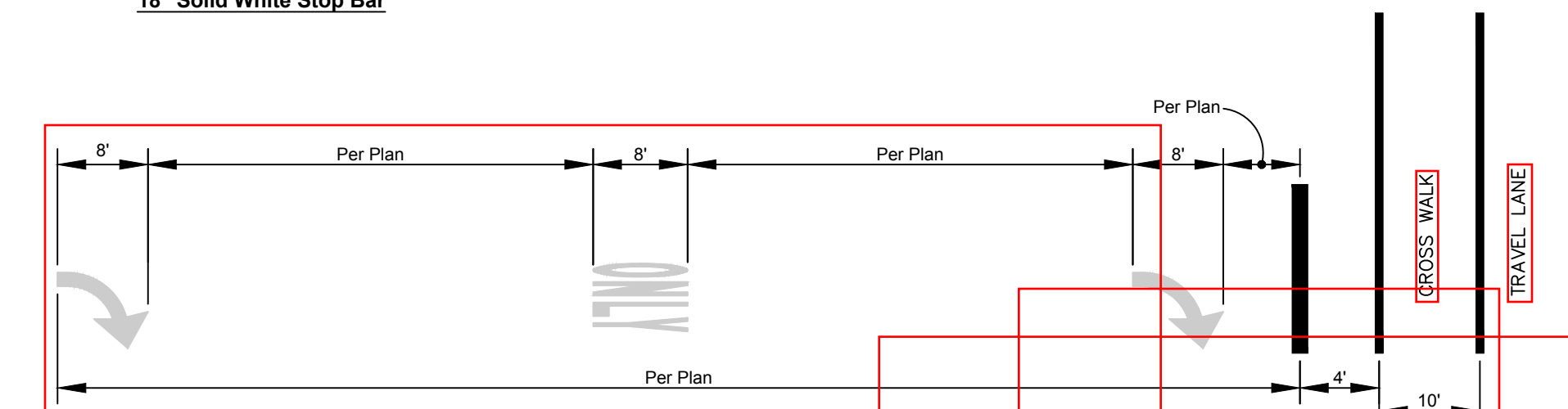
6" Broken/Solid Yellow



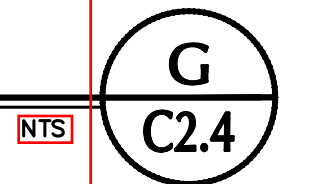
6" Broken White



6" Solid White Edge Road Line



PAVEMENT MARKING DETAIL

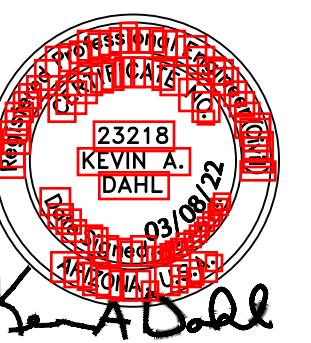


CDB VALLEY VIEW APARTMENTS

SW CORNER 4TH AVENUE & EAST MAIN CANAL
SAN LUIS, ARIZONA

PAVEMENT MARKING / PAVING DETAILS

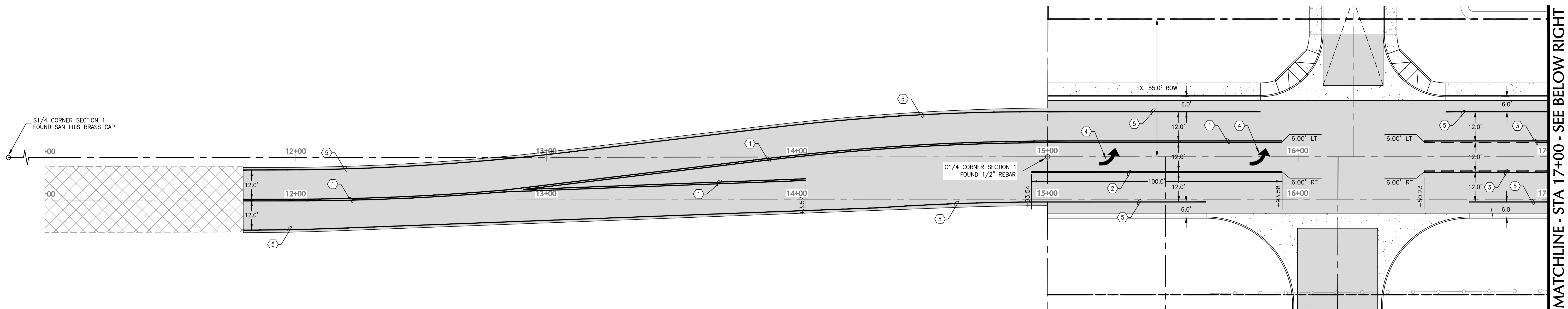
1560 S. 5th Avenue
Yuma, AZ 85364
Phone: (928) 819-0825
Fax: (928) 819-0826
www.dahlrobins.com
3/8/2022 10:07 AM



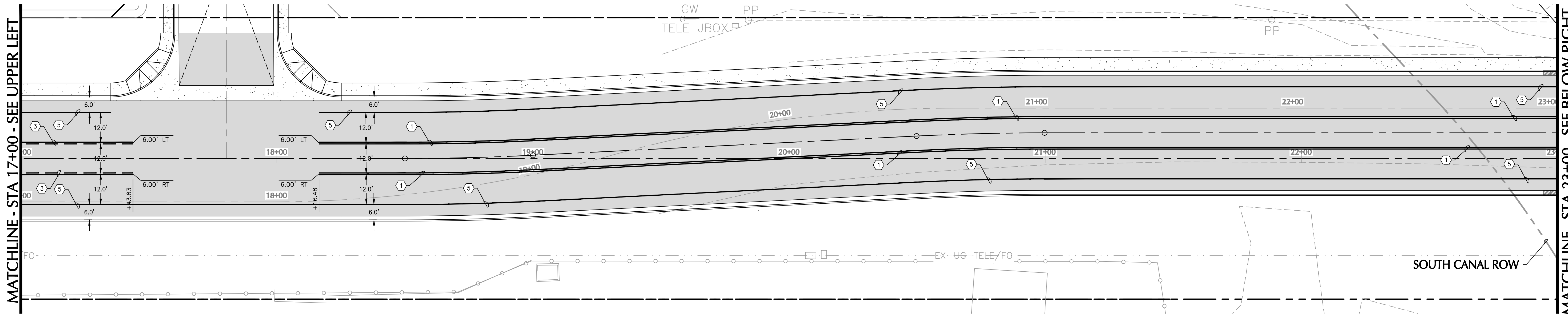
DATE: 10/5/2021
DESIGNED BY: SM/CR/KD
DRAWN BY: V&V/DRA
CHECKED BY: KAD
SURVEYED BY: MAC
PROJECT NO.: 21185
SHEET

C2.4

THIS DRAWING AND THE DATA CONTAINED HEREON ARE THE PROPERTY OF DAHL, ROBINS & ASSOCIATES, INC. AND SHALL NOT BE USED, REPRODUCED OR TRANSMITTED, WITHOUT THE PRIOR EXPRESS CONSENT OF THE COMPANY. NOR SHALL ANY DATA OR INFORMATION CONTAINED HEREON BE USED IN A MANNER INCONSISTENT WITH THE PRIOR EXPRESS WRITTEN AUTHORIZATION OF THE COMPANY.

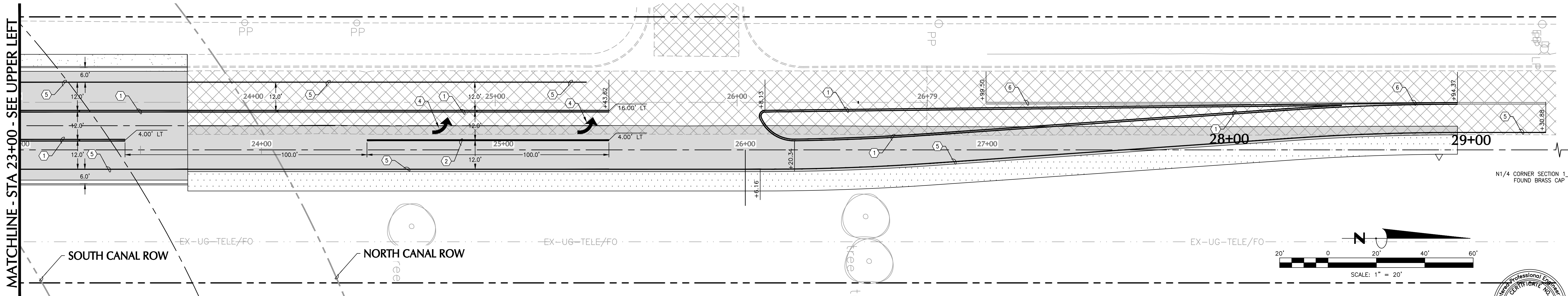


MATCHLINE - STA 17+00 - SEE BELOW RIGHT



MATCHLINE - STA 17+00 - SEE UPPER LEFT

MATCHLINE - STA 23+00 - SEE BELOW RIGHT



MATCHLINE - STA 23+00 - SEE UPPER LEFT

N1/4 CORNER SECTION 1 FOUND BRASS CAP

STRIPING SCHEDULE OF WORK

- ① 6" SOLID DOUBLE YELLOW THERMOPLASTIC STRIPE PER COY STANDARD - SEE DETAIL G/C2.3
- ② 8" SOLID WHITE THERMOPLASTIC STRIPE PER COY STANDARD - SEE DETAIL G/C2.3
- ③ 6" COMBINATION YELLOW THERMOPLASTIC STRIPE PER COY STANDARD - SEE DETAIL G/C2.3
- ④ WHITE PAVEMENT LEGEND ARROW PER COY STANDARD NO. 9-110 - SEE DETAIL G/C2.3
- ⑤ 4" SOLID WHITE THERMOPLASTIC STRIPE PER COY STANDARD - SEE DETAIL G/C2.3
- ⑥ OBLITERATE EXISTING PAVEMENT MARKING WITH SAND SLURRY MIX

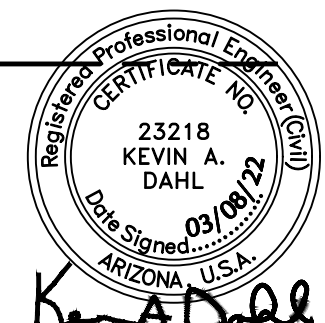
UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM THE FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



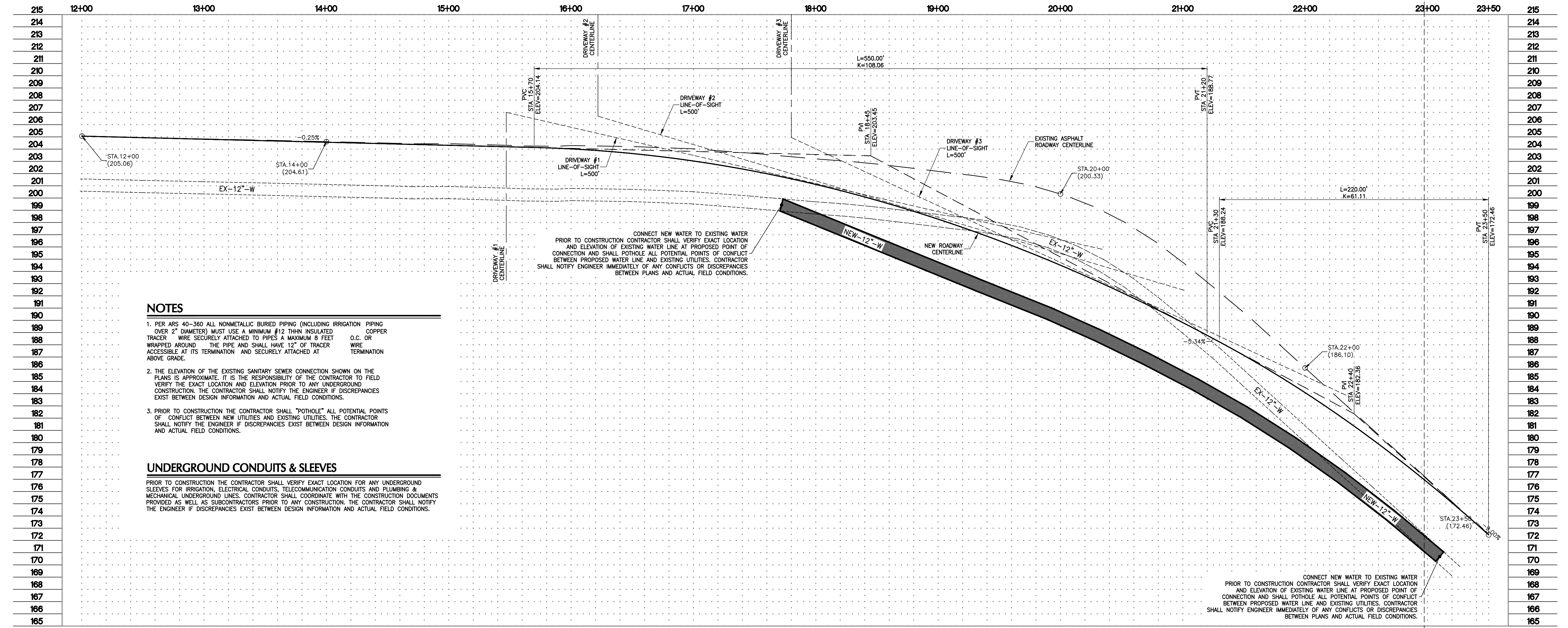
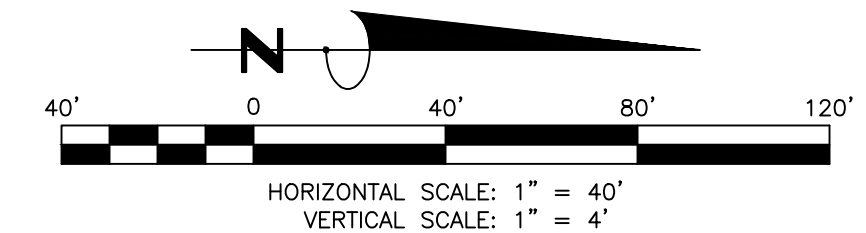
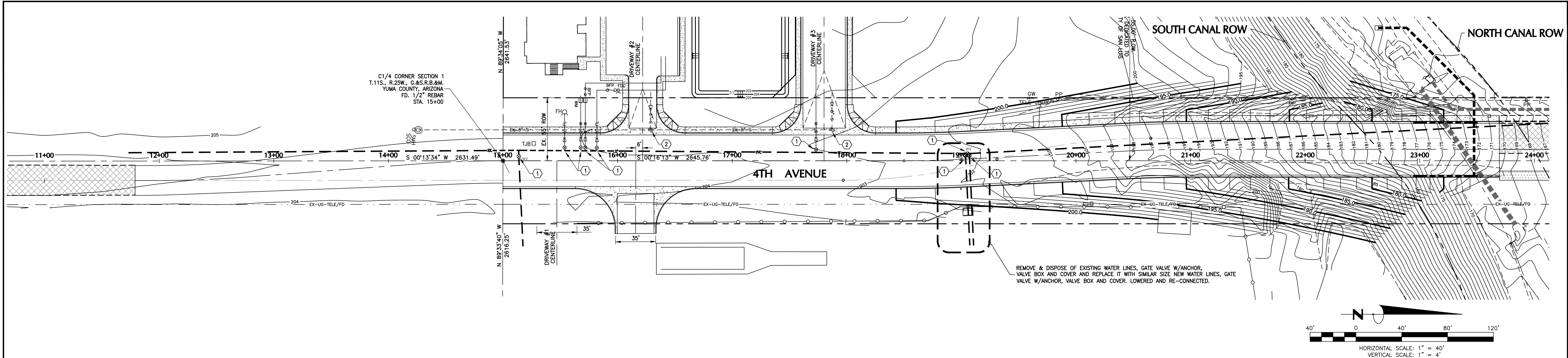
CDB VALLEY VIEW APARTMENTS
 4TH AVENUE IMPROVEMENTS
 SAN LUIS, ARIZONA
 SREIPING PLAN

DR
 DAHL, ROBINS & ASSOCIATES, INC.
 1560 S. 5th Avenue
 Yuma, AZ 85364
 Phone: (928) 819-0825
 Fax: (928) 819-0826
 www.dahlrobbins.com
 3/8/2022 10:01 AM



DATE:	10/5/2021
DESIGNED BY:	SM/CR/KD
DRAWN BY:	V&V/DRA
CHECKED BY:	KAD
SURVEYED BY:	MAC
PROJECT NO.:	21185
SHEET	C2.5

THIS DRAWING AND THE DATA CONTAINED HEREON ARE THE PROPERTY OF DAHL, ROBINS & ASSOCIATES, INC. AND SHALL NOT BE USED, REPRODUCED OR TRANSMITTED, WITHOUT THE PRIOR EXPRESS CONSENT OF THE COMPANY. NOR SHALL ANY DATA OR INFORMATION CONTAINED HEREON BE USED IN A MANNER INCONSISTENT WITH THE PRIOR EXPRESS WRITTEN AUTHORIZATION OF THE COMPANY.



NOTES

1. PER ARS 40-360 ALL NONMETALLIC BURIED PIPING (INCLUDING IRRIGATION PIPING OVER 2" DIAMETER) MUST USE A MINIMUM #12 THIN INSULATED COPPER TRACER WIRE SECURELY ATTACHED TO PIPES A MAXIMUM 8 FEET O.C. OR WRAPPED AROUND THE PIPE AND SHALL HAVE 12" OF TRACER WIRE ACCESSIBLE AT ITS TERMINATION AND SECURELY ATTACHED AT TERMINATION ABOVE GRADE.
2. THE ELEVATION OF THE EXISTING SANITARY SEWER CONNECTION SHOWN ON THE PLANS IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND ELEVATION PRIOR TO ANY UNDERGROUND CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN DESIGN INFORMATION AND ACTUAL FIELD CONDITIONS.
3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL "POTHOLE" ALL POTENTIAL POINTS OF CONFLICT BETWEEN NEW UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN DESIGN INFORMATION AND ACTUAL FIELD CONDITIONS.

UNDERGROUND CONDUITS & SLEEVES

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY EXACT LOCATION FOR ANY UNDERGROUND SLEEVES FOR IRRIGATION, ELECTRICAL CONDUITS, TELECOMMUNICATION CONDUITS AND PLUMBING & MECHANICAL UNDERGROUND LINES. CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION DOCUMENTS PROVIDED AS WELL AS SUBCONTRACTORS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN DESIGN INFORMATION AND ACTUAL FIELD CONDITIONS.

WATER SCHEDULE OF WORK

- 1) ADJUST NEW WATER VALVE BOX FRAME & COVER TO FINISHED GRADE
- 2) ADJUST NEW SEWER MANHOLE COVER TO FINISHED GRADE

UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM THE FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

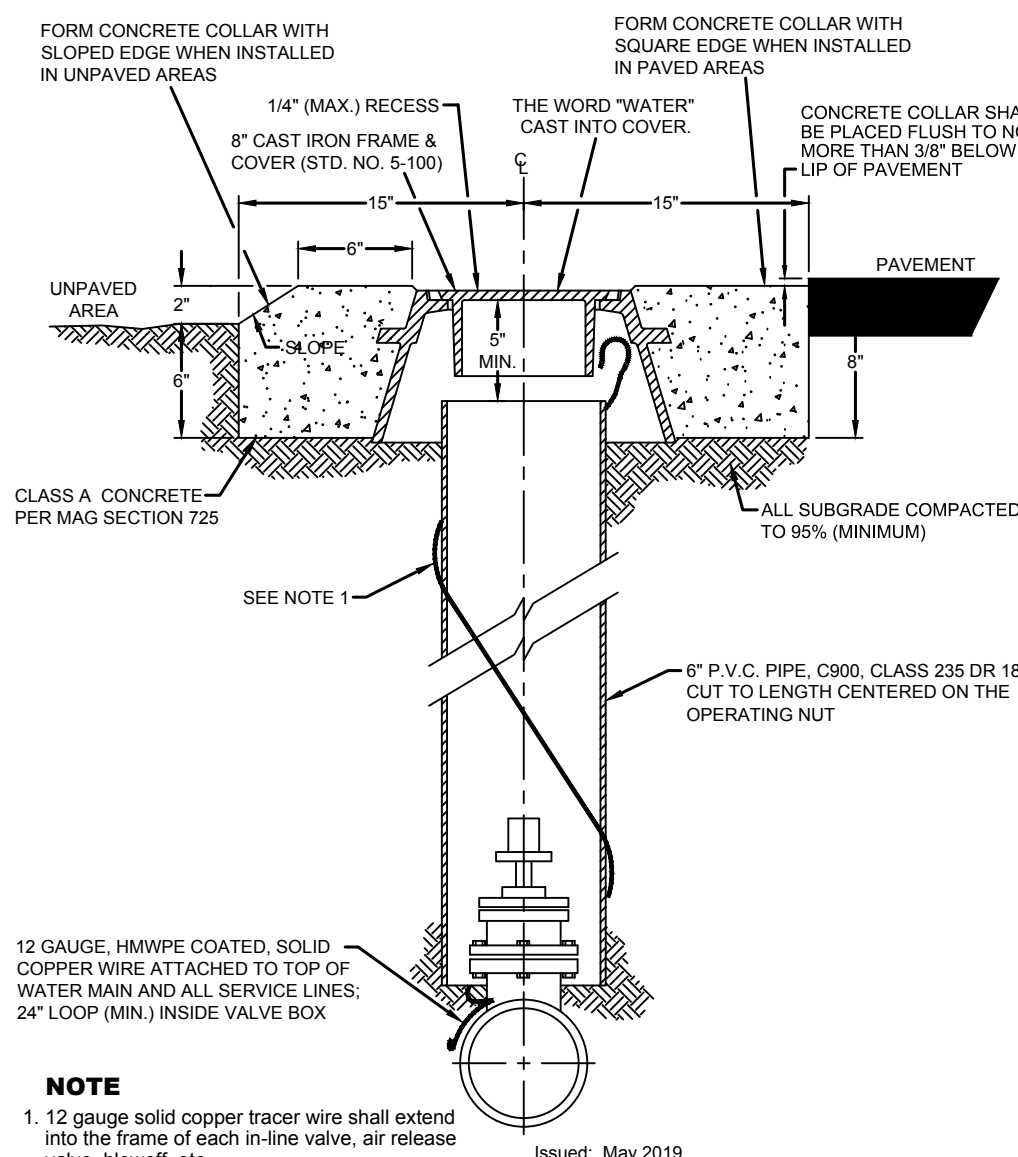


CDB VALLEY VIEW APARTMENTS
 4TH AVENUE IMPROVEMENTS
 SAN LUIS, ARIZONA
WATER PLAN

1560 S. 5th Avenue
 Yuma, AZ 85364
 Phone: (928) 819-0825
 Fax: (928) 819-0826
 www.dahlrobinson.com
 3/8/2022 10:20 AM

DATE:	10/5/2021
DESIGNED BY:	SM/CR/KD
DRAWN BY:	V&V/DRA
CHECKED BY:	KAD
SURVEYED BY:	MAC
PROJECT NO.:	21185
SHEET	C3.1

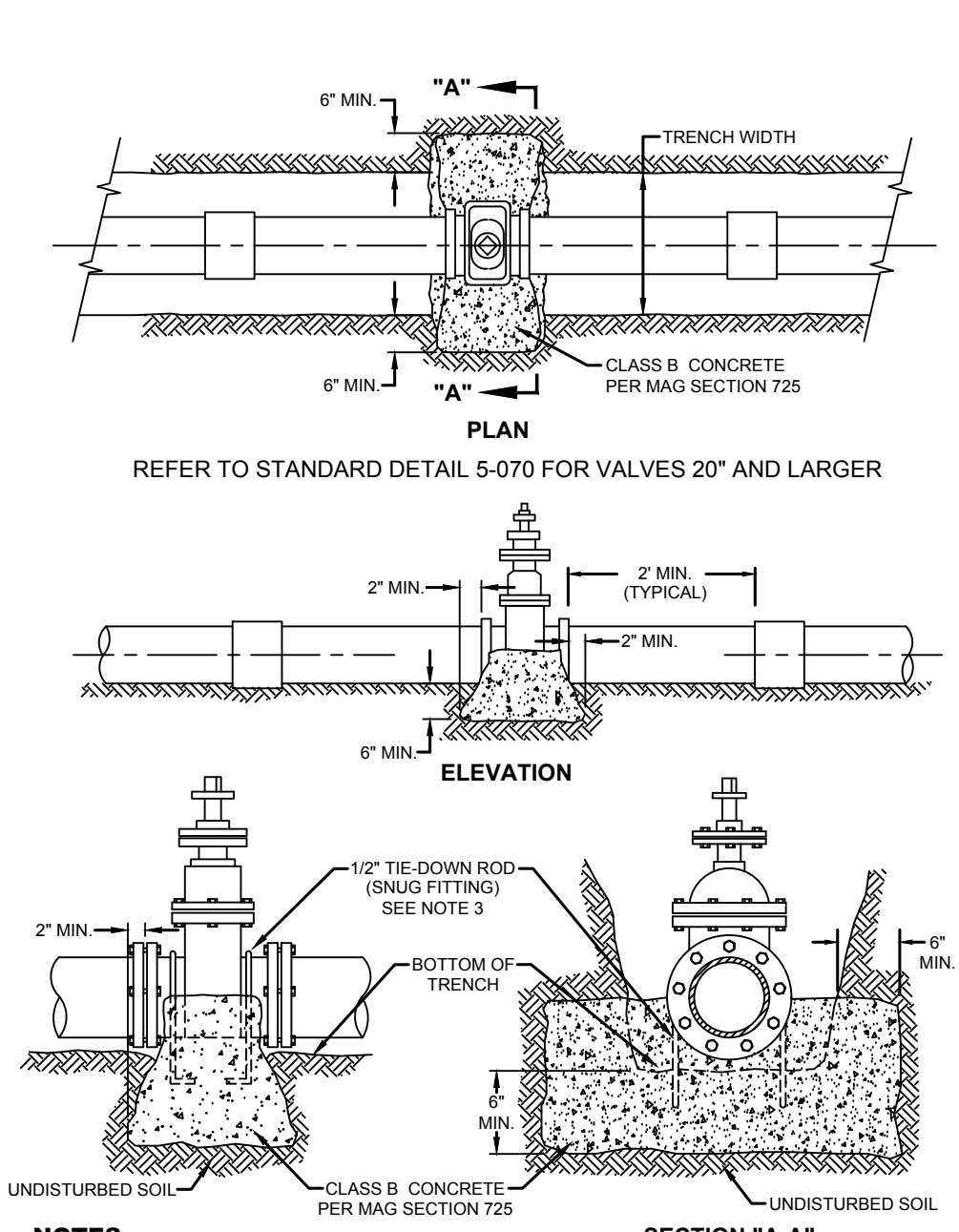
THIS DRAWING AND THE DATA CONTAINED HEREON ARE THE PROPERTY OF DAHL, ROBINS & ASSOCIATES, INC. AND SHALL NOT BE USED, REPRODUCED OR TRANSMITTED, WITHOUT THE PRIOR EXPRESS CONSENT OF THE COMPANY. NOR SHALL ANY DATA OR INFORMATION CONTAINED HEREON BE USED IN A MANNER INCONSISTENT WITH THE PRIOR EXPRESS WRITTEN AUTHORIZATION OF THE COMPANY.



NOTE
1. 12 gauge solid copper tracer wire shall extend into the frame of each inline valve, air release valve, blowoff, etc.

Issued: May 2019

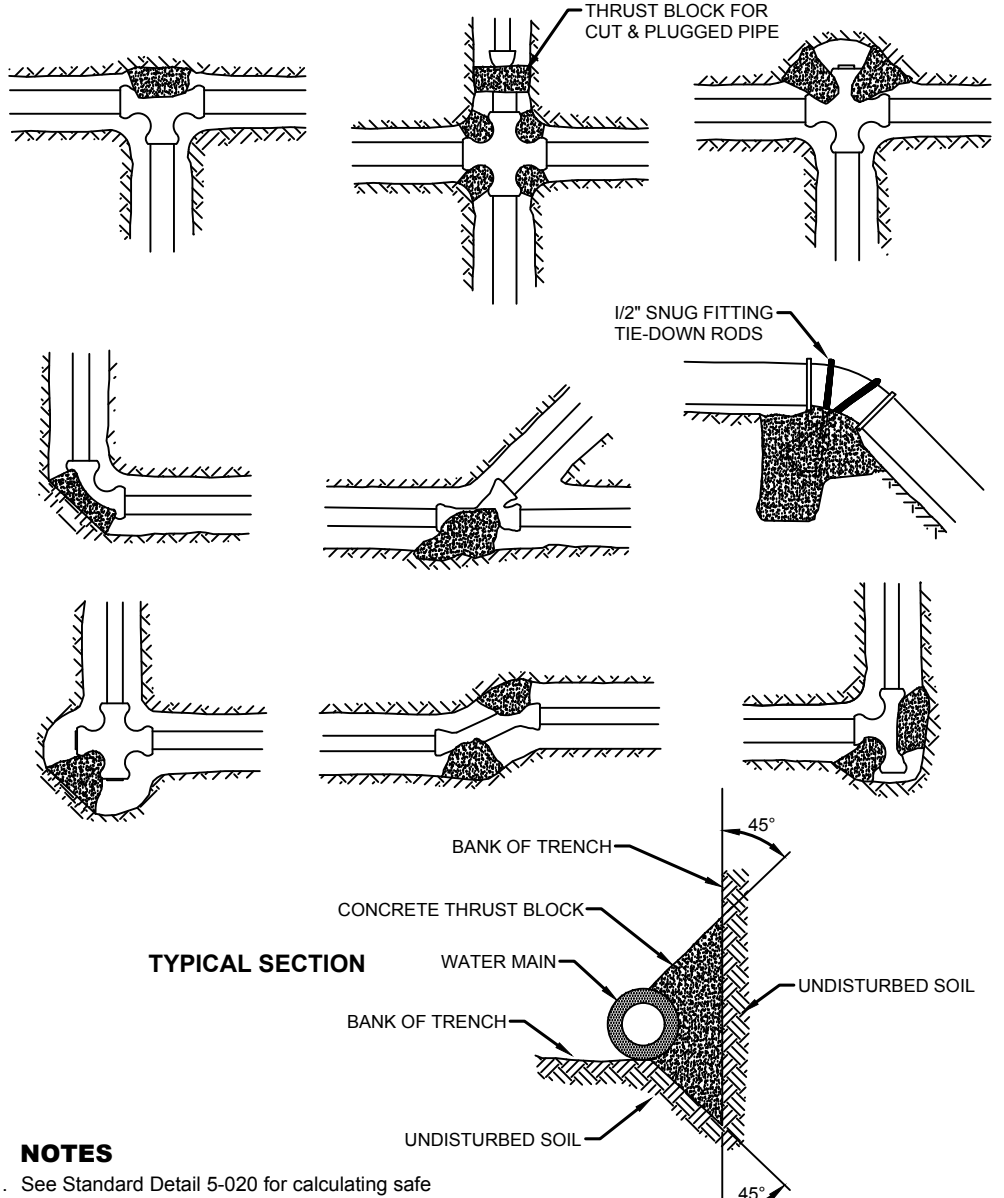
VALVE BOX INSTALLATION **A**
COY STD 5-075 NTS **C3.2**



NOTES
1. This detail covers water valves 4" or larger.
2. All buried iron and ferrous fittings shall receive a 10 mil (minimum) polyethylene plastic wrap to prevent direct contact with soil.
3. 316-stainless steel tie-down rods required for pipes larger than 8".
4. Concrete shall not come into contact with water pipe.
5. Refer to Standard Detail 5-070 for valves twenty inch (20") and larger.

Issued: May 2019

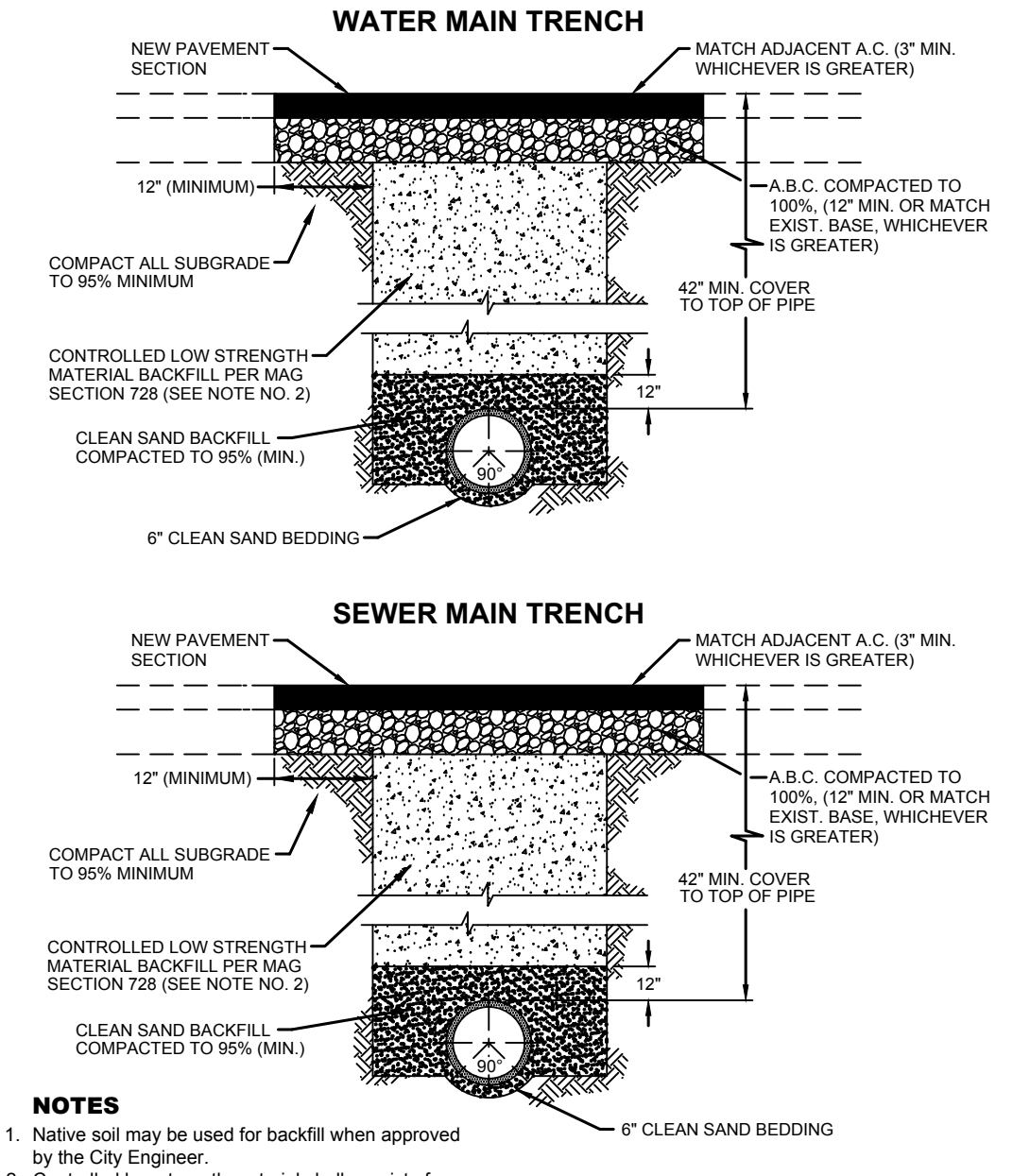
VALVE ANCHORS **C**
COY STD 5-065 NTS **C3.2**



NOTES
1. See Standard Detail 5-020 for calculating safe bearing areas.
2. All ferrous fittings, pipe, connectors and appurtenances shall receive a 10 mil (min.) polyethylene wrap to prevent direct contact with the soil.
3. Thrust blocks shall consist of Class B concrete per MAG Section 725.
4. Concrete shall not come in direct contact with pipe.
5. 316-stainless steel tie-down rods required for pipe larger than 8".
6. Place a minimum of 8" concrete under all fittings.

Issued: May 2019

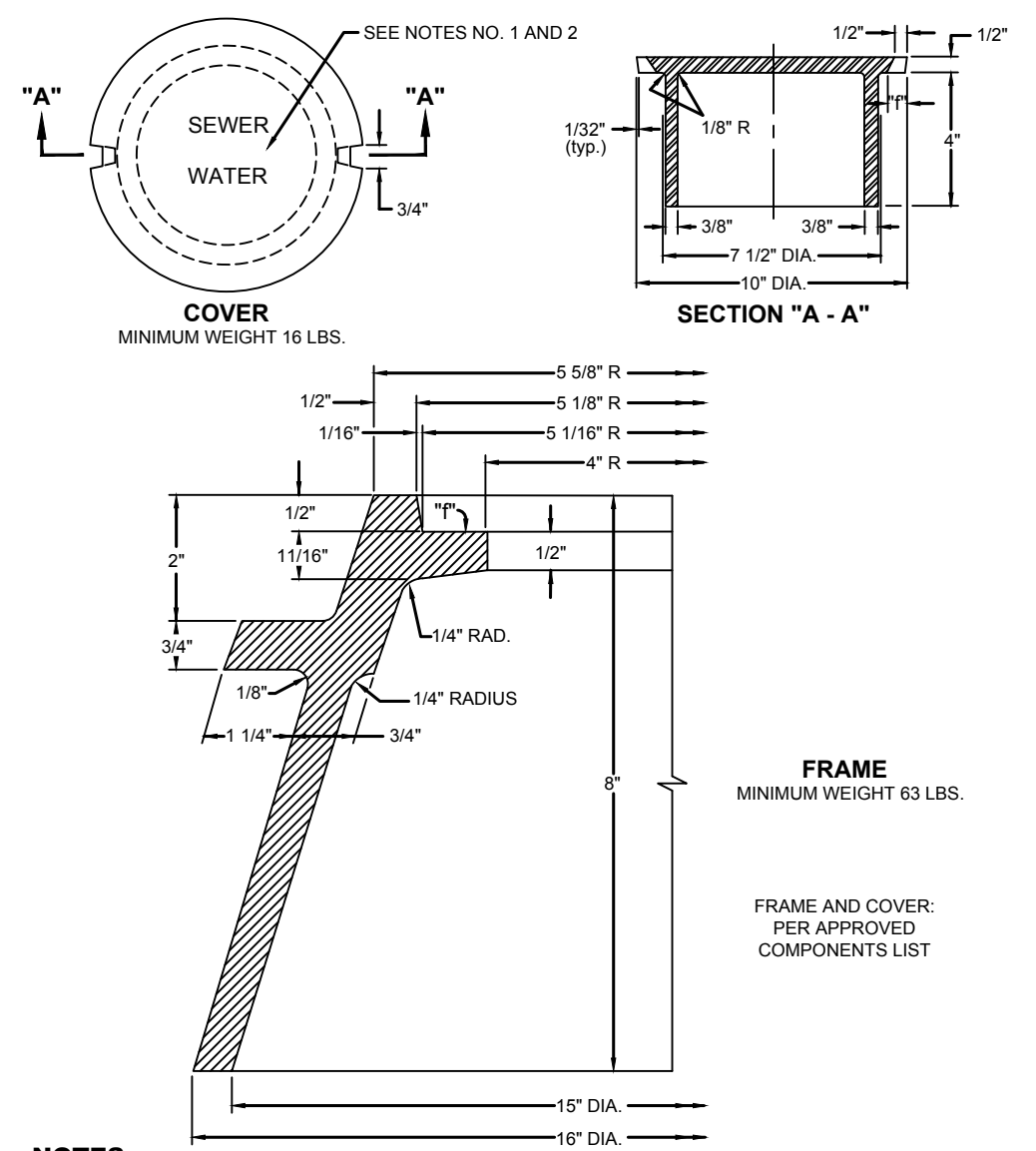
TYPICAL THRUST BLOCK INSTALLATION **E**
COY STD 5-025 NTS **C3.2**



NOTES
1. Native soil may be used for backfill when approved by the City Engineer.
2. Controlled low strength material shall consist of one sack of cement per cubic yard of clean sand.
3. Bedding shown is a minimum standard for shallow trenches and acceptable native base. Exact type of bedding shall be determined by the City Engineer.
4. Ditch sides shall be sloped or shored as required per OSHA standards.
5. All trenches shall be cold-patched if left open to traffic. All trenches shall be hot-mix paved within two (2) weeks of its excavation.

Issued: May 2019

TYPICAL WATER & SEWER MAIN TRENCH BACKFILL **G**
COY STD 5-010 NTS **C3.2**

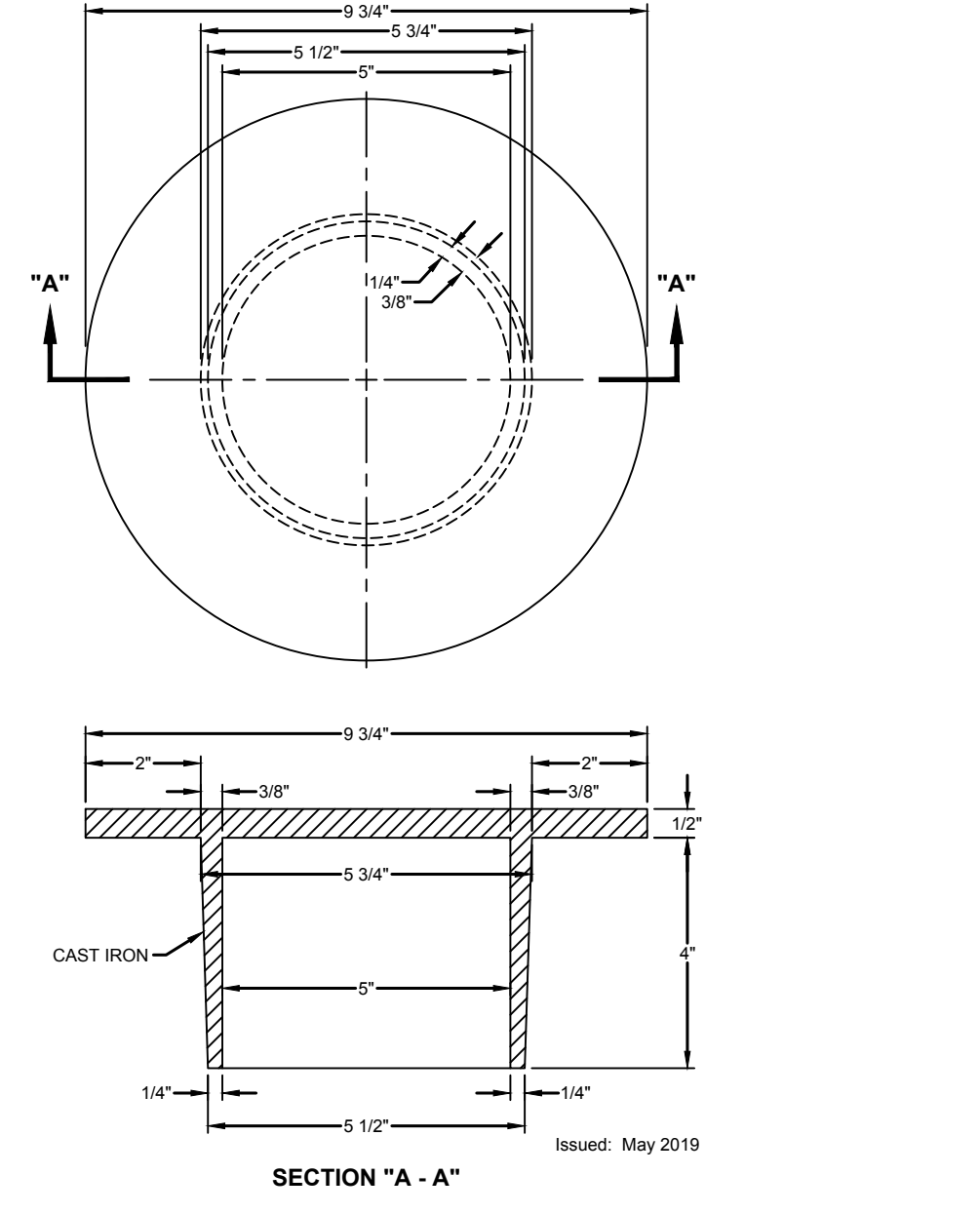


NOTES
1. The word "WATER" or "SEWER" shall be cast on the cover. Letter size: 5/8" x 3/4" raised 1/16" above level of cover.
2. Type of letters are to be submitted for approval.

* INDICATES ORDINARY MACHINING. TOLERANCE FOR MACHINE FINISH: ± .164"

Issued: May 2019

8" CAST IRON FRAME AND COVER **B**
COY STD 5-100 NTS **C3.2**



Issued: May 2019

VALVE BOX COVER, DROP IN **D**
COY STD 5-080 NTS **C3.2**

THRUST AT FITTINGS IN POUNDS
AT 150 POUNDS PER SQUARE INCH OF WATER PRESSURE
ALL PIPE & FITTINGS SHALL BE CLASS 235 DR 18 (MINIMUM)

Size	Tee's & Dead Ends	90° Bend	45° Bend	22 1/2° Bend	Per Degrees of Deflection
2"	1,740	2,460	1,335	675	30.3
4"	2,715	3,840	2,085	1,065	47.3
6"	5,625	7,950	4,320	2,190	98.3
8"	9,780	13,800	7,500	3,795	171.0
10"	16,050	22,650	12,300	6,225	280.5
12"	22,800	32,250	17,550	8,850	399.0
14"	31,050	42,300	23,850	12,075	543.0
16"	40,200	57,000	30,750	15,600	705.0

Safe Bearing Load
Pounds Per Square Foot

Soil	Safe Bearing Load
MUCK, PEAT, ETC.	0
SOFT CLAY	1000
SAND	2000
SAND & GRAVEL	3000
SAND & GRAVEL CEMENTED WITH CLAY	4000

TO CALCULATE THE NEEDED AREA OF A THRUST BLOCK
Divide thrust by safe bearing load. Note: Thrust block area for 6" and larger pipe shall not be less than three (3) square feet in size.

NOTES
1. All domestic pipe and fittings shall be Class 235 DR 18 (min.) unless otherwise noted.
2. All private fire suppression pipe shall have a minimum class 235 DR 18.
3. Thrust block area shall be determined by soil tests for pipe greater in size than 16".
4. Concrete shall not come in direct contact with pipe.

Issued: May 2019

THRUST BLOCK DATA **F**
COY STD 5-020 NTS **C3.2**

CDB VALLEY VIEW APARTMENTS
SW CORNER 4TH AVENUE & EAST MAIN CANAL
SAN LUIS, ARIZONA
WATER DETAILS

DAHL, ROBINS & ASSOCIATES, INC.
1560 S. 5th Avenue
Yuma, AZ 85364
Phone: (928) 819-0825
Fax: (928) 819-0826
www.dahlrobins.com
3/8/2022 10:06 AM

Professional Engineer
KEVIN A. DAHL
23218
03/08/22
Arizona, U.S.A.

DATE: 10/5/2021
DESIGNED BY: SM/CR/KD
DRAWN BY: V&V/DRA
CHECKED BY: KAD
SURVEYED BY: MAC
PROJECT NO.: 21185
SHEET **C3.2**

THIS DRAWING AND THE DATA CONTAINED HEREON ARE THE PROPERTY OF DAHL, ROBINS & ASSOCIATES, INC. AND SHALL NOT BE USED, REPRODUCED OR TRANSMITTED, WITHOUT THE PRIOR EXPRESS CONSENT OF THE COMPANY. NOR SHALL ANY DATA OR INFORMATION CONTAINED HEREON BE USED IN A MANNER INCONSISTENT WITH THE PRIOR EXPRESS WRITTEN AUTHORIZATION OF THE COMPANY.

WATER NOTES

- UNLESS HEREON REVISED, ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CITY OF YUMA SPECIFICATIONS AND RECOMMENDED DETAILS AND SHALL, WHERE APPLICABLE, BE IN ACCORDANCE WITH ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
- A MINIMUM OF 7" SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SEWER LINES.
- GRAVITY SEWER MAINS AND SERVICES SHALL BE DUCTILE IRON PIPE CLASS 53 (FUSION BOND FIBERGLASS REINFORCED POLYESTER RESIN) OR SEWER COAT FOR A PERPENDICULAR DISTANCE OF 7" IN BOTH DIRECTIONS FROM A WATER MAIN OR SERVICE WHEN:
 - SEWER MAIN OR SERVICE CROSSES LESS THAN 2' BELOW A WATER MAIN OR SERVICE;
 - WATER MAIN OR SERVICE CROSSES BELOW A SEWER MAIN OR SERVICE. (A MINIMUM OF 24" SEPARATION SHALL BE MAINTAINED VERTICALLY BETWEEN WATER AND SEWER MAINS AND SERVICES).

REFERENCE: A.A.C. R18-4-502(C)

4. ALL FERROUS MATERIAL INCLUDING FLANGE BOLTS SHALL BE PROTECTED FROM DIRECT CONTACT WITH SOIL BY 10 MIL. POLYETHYLENE WRAP.

5. WATER MAINS AND VALVES SHALL BE FLUSHED AND DISINFECTED BY THE "GENERAL METHOD" AS DESCRIBED IN THE 1978 ARIZONA DEPARTMENT OF HEALTH SERVICES ENGINEERING BULLETIN NO. 8.

6. ENGINEERING PERSONNEL SHALL BE PRESENT WHEN WATER MAINS ARE BOTH FLUSHED AND PRESSURE TESTED.

7. CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE CITY OF YUMA WITH ALL CITY REQUIRED COMPACTION AND CONCRETE TEST RESULTS.

8. ALL PVC WATER DISTRIBUTION PIPES, FITTINGS, AND VALVES SHALL COMPLY WITH NSF STANDARD 61 AND SHALL BEAR THE NSF-PW SEAL FOR POTABLE WATER USE.

9. APPROVED WATER SERVICE COMPONENTS LIST

ITEM/SPECIFICATIONS	MANUFACTURER	MODEL/SERIES
FIRE HYDRANTS		
Dry barrel, traffic model, 2" hose nozzles/1" pumper nozzle with 5 1/4" main valve as required by NFPA. Stainless steel upper and lower stems, open left.	American Flow Control	Waterous - Pocer WB-67
	Clow	Medallion
	American AVK	Series 2700 Modern
	Mueller	Super Centurion
	East Jordan Iron Works	Water Master

GATE VALVES 4" - 42"

AWWA-C515 Resilient wedge valves only. 2" square opening nut, open left. Bronze stem. Stainless steel bolts and nuts. Buried valves shall be non-rising stem.

American Flow Control	Series 2500
Clow	Model 2638
East Jordan Iron Works	Flow Master
American AVK	Series 65
Mueller	Series 2300

INSERTION VALVES

Insta-Valve 250 Insert Valve

Hydra-Stop	TEAM Industrial Services
------------	--------------------------

COMBINATION AIR/VACUUM VALVES

Combination air/vacuum valves shall have a Dezurk isolation valve.

A.R.I. Model D-040 and D-060-C HRNS	
APCO Model 145C-2"	
Val-Matic 202C.2 - 2"	

PRESSURE REDUCING VALVES

Model and specifications to be determined by the design engineer.

CLA-VAL	
---------	--

TAPPING SURVES

4" and 6" minimum length 15" 8" and larger minimum length 20"

Smith-Blair Model Cascade	662-663 CST-SL 432/462
JCM	

TRANSITION COUPLINGS

Any device used to connect AC pipe to 3" or PVC shall require prior approval of the City Engineer. 10" and smaller minimum length 15". 2" and larger minimum length 20".

Smith-Blair	Model 413
KRAUSZ HyMax	Long Body Coupling

REPAIR CLAMPS

Full circle stainless steel clamp. Single, double and multi band. 304 Stainless steel bolts w/Fluoropolymer coated nuts

Smith-Blair	244, 245, 226, 227, 228
Ford Meter Box Co.	Style F1, F2, F3

RESTRAINED FITTINGS

Alpha Wide Range Restrained Coupling 4" - 12" Alpha Wide Range Restrained End Cap 4" - 12" Alpha Wide Range Restrained Flanged Coupling

Romac Industries	Alpha Series 4" - 12"
------------------	-----------------------

WATER METERS

Contact the Utility Systems Superintendent or Meter Services Supervisor for assistance before ordering. Meters 3" to 8" must be Badger Meter, Inc. brand. They must have a test port on the body and a dual range plate-strainer or an integral strainer. They must be outfitted with AMR/AMI meter reading capability compatible with Badger BEACON. An HR-E LOD Encoder and an Orion (E) ADE Endpoint. Additionally a Commercial Meter Mounting Bracket must be ordered for each Endpoint. P/N: 64394-023. Note: Endpoint type may change based on system requirements.

Badger Meter Co.	
Contact the Utility Systems Superintendent or Meter Services Supervisor for assistance before ordering.	

WATER SERVICE LINE MATERIAL

1" Sch. 40 PVC	Cresline, Charlotte
2" Sch. 40 PVC	Cresline, Charlotte
1" and 2" PVC fittings	Spears
1 1/4" PEX-a	Uponor AquaPEX® White
1 1/4" PEX-a	Rehau MUNIPEX®

WATER SERVICE BRASS COMPONENTS

ANGLE STOPS

AYM 74602-33 (1" ONLY) KVS3-444W-NL (1" ONLY)

CORPORATION STOPS

AYM 74704-33 F1101-4-NL

SERVICES SADDLES

AYM 3826 FOR AC PIPE 202B-XXX-TAP FOR AC PIPE AYM 3856 FOR C900 PIPE

2" VALVES

AYM 76101MW BF13-777W-NL AYM 76101 B11-777-NL AYM 74604B BF13-777W-NL

RY McDONALD AND FORD METER BOX CO ARE ONLY AUTHORIZED MANUFACTURES	244, 245, 226, 227, 228
IRON PIPE THREAD ONLY	

- WATER METER BOXES**
- BLACK POLYMER BOX W/POLYMER AMR/AMI SOLID BLACK LID DFWA20-12-1MA DFWA40-12-1MA
- DFW PLASTICS INC.**
- NOTES**
- The approved equipment shown is not necessarily exclusive. If approval of a similar device believed to be comparable and equal is desired, a request supported by appropriate information on data may be submitted to the City Engineer for review.
 - All buried components will require Type 304 stainless steel (min.) components (nuts, bolts, washers, etc.) unless otherwise noted.
 - All new water service requests 2" and smaller off of an existing water main will be installed by City of Yuma utilities personnel.
10. CONSTRUCTION MATERIALS USED IN THE WATER SYSTEM SHALL BE LEAD FREE AS DEFINED AT A.A.C. R18-4-504 AND R18-1-101
11. WATER/SEWER LINES SEPARATION SHALL BE IN ACCORDANCE WITH A.A.C. R18-4-502.C

WATER LINE TESTING PROCEDURE

- ALL VISIBLE LEAKS SHALL BE REPAIRED REGARDLESS OF THE AMOUNT OF LEAKAGE & REGARDLESS OF WHETHER LEAK DEVELOPS UNDER TEST PRESSURE OR LINE PRESSURE.
- INITIAL PRESSURES FOR BOTH THE PRESSURE TEST AND ALLOWABLE LEAKAGE TEST SHALL BE A MINIMUM OF 150 PSI FOR WATERLINES AND 200 PSI FOR FIRELINES.
- A PRESSURE TEST SHALL BE DEEMED AS SUCCESSFUL IF IT PASSES THE CRITERIA SET FORTH BY AWWA C-600, SEC. 4 (LATEST EDITION) AND THAT CRITERIA NOTED ABOVE.
- SHOULD THE PRESSURE TEST BE UNSUCCESSFUL, THE CONTRACTOR HAS THE OPTION OF ATTEMPTING THE ALLOWABLE LEAKAGE TEST. THIS TEST WILL BE DEEMED SUCCESSFUL IF IT PASSES THE CRITERIA SET FORTH IN AWWA C-600, SEC. 4 (LATEST EDITION) OR AWWA M-23 (LATEST EDITION), WHICHEVER IS MORE RESTRICTIVE AND COMPLIES WITH THAT CRITERIA NOTED ABOVE.

GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION HEREON SHALL CONFORM TO CITY OF YUMA STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARDS AND SHALL BE IN ACCORDANCE WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FURNISHING TO THE ENGINEER OF "AS-BUILT" RECORD DRAWINGS. THE CONTRACTOR SHALL OBTAIN ONE SET OF PLANS FROM THE ENGINEER AND SHALL RECORD IN RED COLORED PENCIL ALL CHANGES MADE TO THE ORIGINAL DRAWINGS. ANY CHANGES TO THE ORIGINAL DRAWINGS SHALL BE DIMENSIONED.
- ANY DEFECTIVE MATERIAL OR WORKMANSHIP SHALL BE REPLACED AND/OR REPAIRED PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL PROPOSED PROJECT MATERIAL DATA SHEETS AND ANY SHOP DRAWINGS. ANY MATERIAL SUPPLIED NOT IN CONFORMANCE WITH THE SPECIFICATIONS WILL BE REJECTED.
- THE CONTRACTOR WILL BE RESPONSIBLE, IN ACCORDANCE WITH ARIZONA REVISED STATUTES, TO NOTIFY THE ARIZONA BLUE STAKE CENTER AT (800) 782-5348 AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION ACTIVITIES. LOCATIONS OF EXISTING PUBLIC UTILITY LINES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR MUST VERIFY THE LOCATIONS IN THE FIELD AND TAKE NECESSARY PRECAUTIONS. ANY DAMAGE TO A UTILITY SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN DUST ABATEMENT ACTIVITIES FOR THE DURATION OF THE PROJECT, INCLUDING WEEKENDS AND HOLIDAYS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE MOISTURE LEVELS IN THE SURFACE MATERIALS TO ELIMINATE BLOWING DUST FROM THESE MATERIALS. ALL HAUL TRUCKS, WHETHER INVOLVED IN DELIVERY OR REMOVAL ACTIVITIES, SHALL BE COVERED AND/OR TARPED IN ORDER TO NEGATE THE REMOVAL OF MATERIAL FROM TRUCKS BY WINDS, EITHER NATURAL OR CAUSED BY THE MOVEMENT OF THE TRUCKS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING PROPER SIGNS, BARRICADES, AND WARNING LIGHTS TO CONTROL THE TRAFFIC AND TO ASSURE THE PUBLIC'S HEALTH, WELFARE, AND SAFETY. ALL DEVICES MUST CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL TRAFFIC CONTROL INSTALLATIONS USED IN CONJUNCTION WITH THIS PROJECT AND SHALL INSPECT AT LEAST TWICE DAILY, TO ENSURE CONFORMANCE WITH THE APPROVED TRAFFIC CONTROL PLAN.
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARD FOR CONSTRUCTION (TITLE 29, CODE OF FEDERAL REGULATIONS, PART 1926 AS AMENDED) AND CITY OF YUMA SAFETY REGULATIONS ARE APPLICABLE FOR THE COMPLETION OF THE WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL GUARANTEE THE WORK COMPLETED AGAINST DEFECTIVE WATER AND/OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE GRANTED BY THE CITY OF YUMA.
- CONSTRUCTION STAKING & MATERIALS TESTING WILL BE PROVIDED BY THE OWNER.
- ANY SURVEY MONUMENT DISTURBED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN ACCORDANCE WITH CITY OF YUMA STANDARD DETAILS BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER. CONTRACTOR SHALL UTILIZE A REGISTERED LAND SURVEYOR TO ASSURE PROPER PLACEMENT OF SAID MONUMENT.
- ALL WATERLINES WILL BE PRESSURED AND LEAKAGE TESTED TO 150 PSI FOR 2 HOURS. SEE THIS SHEET FOR TEST PROCEDURES.
- SITE PLUMBING CONTRACTOR TO COORDINATE WITH BUILDING PLUMBING CONTRACTOR TO PROVIDE COMPLETED JOB, READY FOR USE, IN ACCORDANCE WITH PLANS, INCLUDING RAISING ALL VALVE COVERS TO GRADE AFTER PAVING OR LANDSCAPING IS COMPLETED. BUILDING PLUMBING CONTRACTOR SHALL EXTEND WATER AND SEWER APPROXIMATELY 5' FROM THE BUILDING AND MAKE FINAL CONNECTION TO PROPOSED SUBROUTS. SUBROUTS TO BE PROVIDED BY SITE UTILITIES CONTRACTOR.
- WATER AND SEWER CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF THE BACTERIOLOGICAL TEST RESULTS TAKEN ON THE SYSTEM.
- ALL PVC WATERLINES SMALLER THAN 4" SHALL BE SCHEDULE 40 APPROVED BY NSF AND INSTALLED IN ACCORDANCE WITH CITY OF YUMA STANDARDS.
- ALL WATERLINES 4" AND LARGER IN DIAMETER SHALL BE PVC COMPLYING WITH AWWA C-900, CLASS 305 DR18 AND MARKED NSF APPROVED FOR POTABLE WATER.
- ALL WATER DISTRIBUTION PIPES, WATER SERVICE LINES AND FIRE HYDRANT LEADS SHALL BE INSTALLED WITH TRACER WIRE THAT CONFORMS TO THAT CALLED OUT ON CITY OF YUMA CONSTRUCTION STANDARD NO. 5-210.
- THE ELEVATION OF THE EXISTING SEWER CONNECTION SHOWN ON THE PLANS IS APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND ELEVATION PRIOR TO ANY UNDERGROUND CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN DESIGN INFORMATION AND ACTUAL FIELD CONDITIONS.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL "POTHOLE" ALL POTENTIAL POINTS OF CONFLICT BETWEEN NEW UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DISCREPANCIES EXIST BETWEEN DESIGN INFORMATION AND ACTUAL FIELD CONDITIONS.
- BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSPECTED BY THE CITY OF YUMA PUBLIC WORKS DEPARTMENT PRETREATMENT SECTION. PLEASE CONTACT JACKIE COX AT (928) 373-4542 TO REQUEST AN INSPECTION. TESTING OF BACKFLOW DEVICE TO BE DONE BY CERTIFIED TESTER (LIST AVAILABLE ON REQUEST). INSTALLATION AND TESTING TO BE COMPLETED WITHIN ONE WEEK FROM THE TIME THE WATER METER IS SET.

CDB VALLEY VIEW APARTMENTS
 SW CORNER 4TH AVENUE & EAST MAIN CANAL
 SAN LUIS, ARIZONA

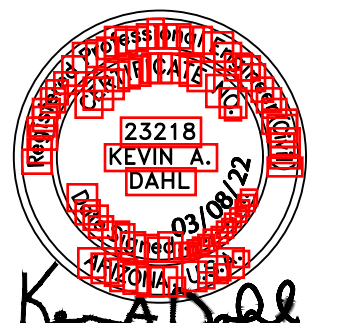
NOTES

DAHL, ROBINS & ASSOCIATES, INC.

1560 S. 5th Avenue
 Yuma, AZ 85364
 Phone: (928) 819-0825
 Fax: (928) 819-0826
 www.dahlrobins.com
 3/8/2022 10:05 AM

DATE: 10/5/2021
 DESIGNED BY: SM/CR/KD
 DRAWN BY: V&W/DRA
 CHECKED BY: KAD
 SURVEYED BY: MAC
 PROJECT NO.: 21185
 SHEET

C3.3



Kevin A. Dahl

THIS DRAWING AND THE DATA CONTAINED HEREON ARE THE PROPERTY OF DAHL, ROBINS & ASSOCIATES, INC. AND SHALL NOT BE USED, REPRODUCED OR TRANSMITTED, WITHOUT THE PRIOR EXPRESS CONSENT OF THE COMPANY. NOR SHALL ANY DATA OR INFORMATION CONTAINED HEREON BE USED IN A MANNER INCONSISTENT WITH THE PRIOR EXPRESS WRITTEN AUTHORIZATION OF THE COMPANY.