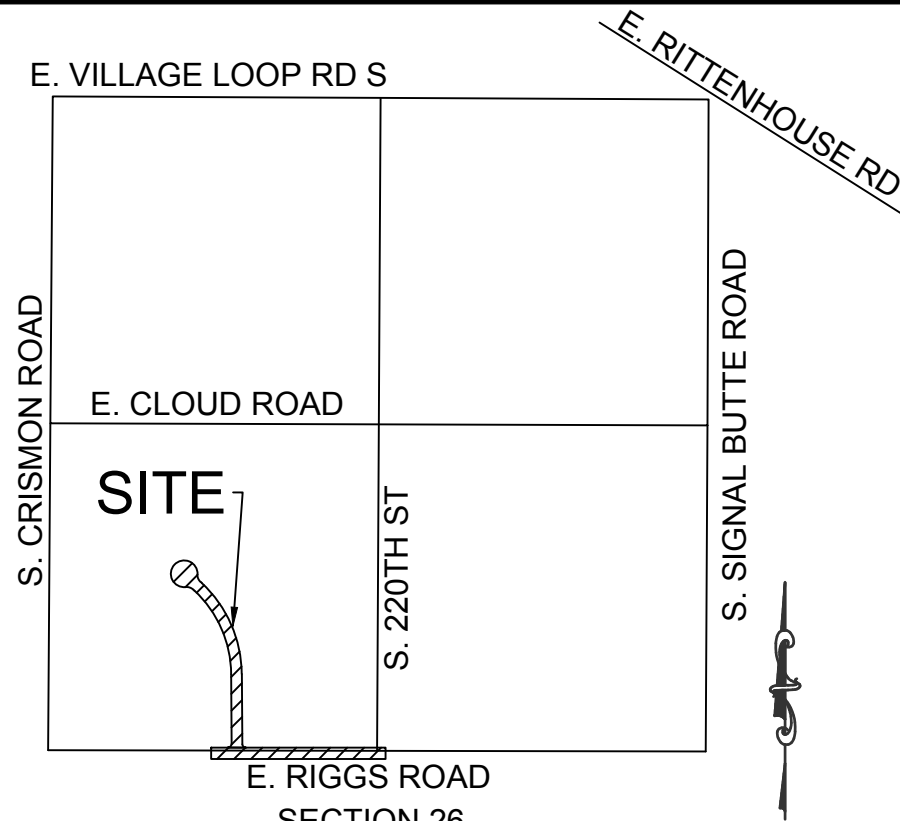
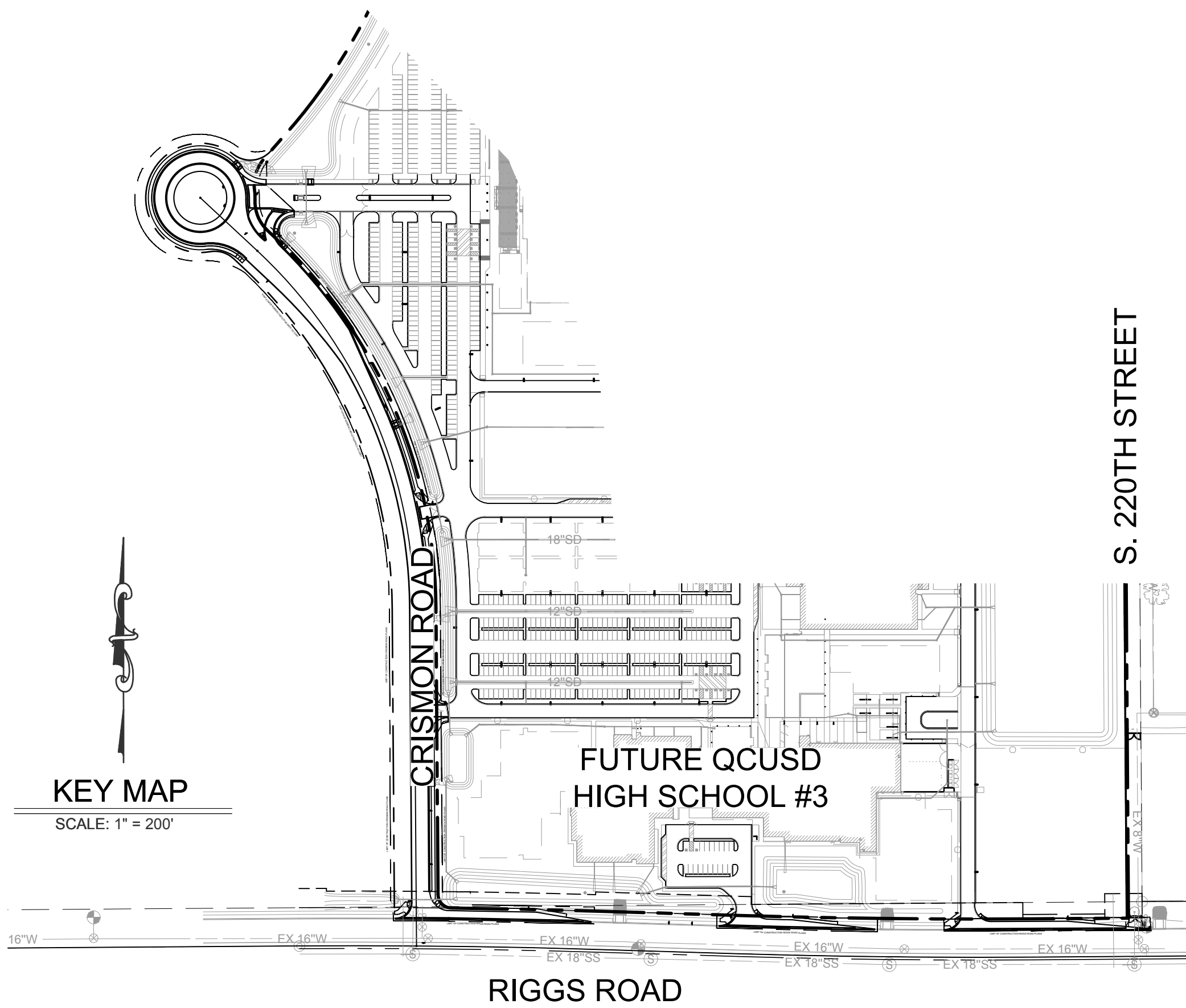


QCUSD HIGH SCHOOL #3 CRISMON ROAD PAVING PLANS

A PORTION OF THE SOUTHEAST QUARTER OF SECTION 26, TOWNSHIP
2 SOUTH, RANGE 7 EAST OF THE GILA AND SALT RIVER BASE AND
MERIDIAN, MARICOPA COUNTY, ARIZONA
QUEEN CREEK, ARIZONA



SHEET INDEX

| | |
|--------|---------------------------------------|
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| C0-3.3 | PAVING PLAN & PROFILE |
| C0-3.4 | PAVING PLAN & PROFILE |
| C0-3.5 | PAVING PLAN & PROFILE |
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| C0-4.5 | SIGNING & STRIPING PLAN |
| C0-4.6 | SIGNING & STRIPING PLAN |

VICINITY MAP

BENCHMARK

FOUND 3" MARICOPA COUNTY
BRASS CAP STAMPED "S26 S27
34 S35 T2S R7E 2002 RLS 31601

NAVD88 ELEVATION = 1421.52

BASIS OF BEARING

SOUTH 89°35'27" WEST ALONG THE SOUTH
LINE OF THE SOUTHWEST QUARTER OF
SECTION 26 TOWNSHIP 2 SOUTH, RANGE 7
EAST G&SRM

ENGINEER

JUSTIN PETERSON, PE
LLOYD SPORTS + ENGINEERING
7349 N VIA PASEO DEL SUR,
SUITE 515-324
SCOTTSDALE, AZ 85258
(602) 635-4226

OWNER

JIM LAMB
QUEEN CREEK UNIFIED SCHOOL DISTRICT
20217 E CHANDLER HEIGHTS ROAD
QUEEN CREEK, AZ 85142
(480) 987-5935

PROJECT AREA

THE GROSS AREA OF THE SUBJECT PARCEL
IS APPROXIMATELY 73 ACRES.

AREA OF DISTURBANCE = 73 ACRES

PROJECT DESCRIPTION

THE SCOPE OF THIS PROJECT CONSISTS OF CONSTRUCTION
ACCESS TO A NEW SCHOOL SITE AT THE NORTHEAST
CORNER OF RIGGS AND THE NEW CRISMON ALIGNMENT. THE
PROJECT INCLUDES THE CONSTRUCTION OF THE EAST HALF
OF CRISMON ROAD FROM RIGGS TO APPROXIMATELY 1600
FEET NORTH OF THE INTERSECTION

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THE "RECORD DRAWING" MEASUREMENTS
AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION
OR AS NOTED AND ARE CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

ENGINEER REGISTRATION NUMBER

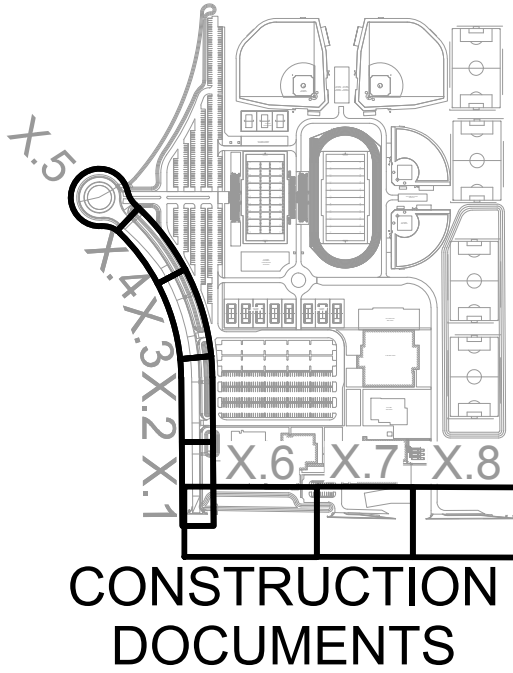
APPROVALS

THE AUTHORIZED REPRESENTATIVES OF THE FOLLOWING AGENCIES
HEREBY ACKNOWLEDGE OR HAVE ACKNOWLEDGED THEY HAVE
REVIEWED AND APPROVED THE DESIGN SHOWN BY THESE
DRAWINGS. CONSTRUCTION MAY BEGIN AFTER ALL APPROPRIATE
PERMITS HAVE BEEN OBTAINED.

TOWN FIRE MARSHALL DATE

TOWN ENGINEER DATE

TOWN TRAFFIC DEPARTMENT DATE



CONSTRUCTION DOCUMENTS



| | |
|------|--|
| REV. | |
| | |
| | |
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| | |
| | |

CRISMON ROAD IMPROVEMENT PLANS

| | |
|-----------------|--------------|
| QUEEN CREEK, AZ | |
| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | TML |
| PROJ. | 20-160 |
| SCALE: | 1" = 200' |

COVER SHEET

DWG. NO.

C0-1.1

QUEEN CREEK GENERAL NOTES

- ALL IMPROVEMENTS SHALL CONFORM TO THE LATEST MAG STANDARDS AND SPECIFICATIONS OR THE LATEST STANDARDS AND SPECIFICATION ADOPTED BY THE TOWN.
- THE TOWN PUBLIC WORKS DIRECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION ON THE PROJECT SITE.
- "ALL IMPROVEMENTS SHALL BE CONSTRUCTED WITH THE INSPECTION AND APPROVAL OF THE TOWN PUBLIC WORKS DEPARTMENT AND WILL REQUIRE A TOWN CONSTRUCTION PERMIT. CONSTRUCTION WILL NOT BEGIN UNTIL A PERMIT HAS BEEN ISSUED. IF THE WORK IS DISCONTINUED, IT SHALL NOT RESUME UNTIL AFTER NOTIFYING THE TOWN PUBLIC WORKS DIRECTOR.
- UTILITIES MUST BE INSTALLED EITHER IN DEDICATED PUBLIC RIGHT-OF-WAYS OR IN PUBLIC UTILITY EASEMENTS DEDICATED BY THE LAND OWNER FOR SUCH USAGE AND MAINTENANCE. THE DEVELOPER/OWNER IS RESPONSIBLE FOR THE COORDINATION OF THE RELOCATION OF UTILITIES ON SITE.
- ALL UNDERGROUND UTILITY INSTALLATION IN STREETS OR PUBLIC ACCESS WAYS SHALL BE CONSTRUCTED PRIOR TO SURFACING SUCH STREET OR PUBLIC ACCESS WAY.
- THE DEVELOPER SHALL PROVIDE FOR AN ARIZONA REGISTERED ENGINEER TO BE PRESENT ON THE SITE FOR SUFFICIENT TIME TO ASSESS COMPLIANCE WITH THE PLANS AND SPECIFICATIONS FOR EACH ELEMENT OF CONSTRUCTION AND NO LESS THAN ONCE A DAY WHEN CONSTRUCTION IS IN PROGRESS.
- THE TOWN PUBLIC WORKS DIRECTOR SHALL BE NOTIFIED UPON COMPLETION OF ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAYS AND PRIOR TO ANY STREET PREPARATION WORK. INTERIM AS-BUILT PLANS OF THE UTILITIES AND ALL PASSING TEST RESULTS WILL BE SUBMITTED FOR REVIEW. UPON REVIEW AND APPROVAL OF THE SUPPLIED INFORMATION, THE DEVELOPER MAY PROCEED WITH THE INSTALLATION OF STREET IMPROVEMENTS.
- THE DEVELOPER'S ENGINEER SHALL REQUEST THE TOWN PUBLIC WORKS DIRECTOR PERFORM INSPECTION OF THE SUB GRADE BASE PRIOR TO PLACEMENT OF THE OVERLAYING MATERIALS. IN ADDITION, THE TOWN PUBLIC WORKS DIRECTOR SHALL PERFORM PERIODIC INSPECTIONS THROUGHOUT THE COURSE OF CONSTRUCTION. THESE INSPECTIONS OR APPROVALS DO NOT SIGNIFY THAT THE TOWN HAS ACCEPTED ANY OF THE IMPROVEMENTS FOR MAINTENANCE.
- THE DEVELOPER'S ENGINEER SHALL SUBMIT WEEKLY PROGRESS REPORTS TO THE TOWN PUBLIC WORKS DIRECTOR THROUGHOUT THE CONSTRUCTION. THE WEEKLY PROGRESS REPORTS WILL INCLUDE THE RESULTS OF ALL TESTS TAKEN DURING THE WEEK.
- CONSTRUCTION MATERIALS TESTING SHALL BE PERFORMED AT THE DIRECTION OF THE TOWN PUBLIC WORKS DIRECTOR OR HIS REPRESENTATIVE AND AT THE EXPENSE OF THE OWNER/DEVELOPER.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING INDIVIDUAL UTILITY COMPANIES FOR UTILITY LOCATION, OR FOR CALLING BLUE STAKE TO COORDINATE UTILITY LOCATION, AT LEAST 48 HOURS PRIOR TO EXCAVATION OF ALL UNDERGROUND UTILITIES.
- THE ENGINEER CERTIFIES THAT HE HAS CONTACTED ALL APPLICABLE UTILITY COMPANIES AND HAS SHOWN ALL EXISTING AND/OR PROPOSED UTILITY LINES AND PERTINENT INFORMATION TO THESE PLANS, AND HAS PLOTTED CORRECTLY THE EXISTING AND PROPOSED UTILITY RIGHT-OF-WAY AND/OR EASEMENT LINES ON THE PLANS.

COORDINATION LIST

| DESCRIPTION | REPRESENTATIVE | DATE | PHONE |
|-------------------|-------------------|------------|--------------|
| CENTURY LINK | KEVIN WAGNER | 12/07/2021 | 815-245-9640 |
| COX COMMUNICATION | CHRISTOPHER PEREZ | 12/07/2021 | 623-328-3554 |
| SOUTHWEST GAS | TANYA ACEVES | 12/07/2021 | 602-395-4030 |
| SRP (ELECTRIC) | TONY ALVARADO | 12/07/2021 | 602-236-2373 |

FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

| COMMUNITY NUMBER | PANEL# PANEL DATE | DATE OF FIRM (INDEX OF DATE) | FIRM ZONE | BASE FLOOD ELEVATION (IN AO ZONE, USE DEPTH) |
|------------------|-----------------------------------|---------------------------------|-----------|---|
| 040132 | 3135 SUFFIX L October 16, 2013 | 10-16-13 | ZONE X | LESS THAN 1 FOOT |

This plan document set is the sole property of Lloyd Consulting Group, LLC. No alterations to these plans, other than adding "as-built" information, are allowed by anyone other than authorized Lloyd Consulting Group, LLC employees.

ENGINEERS NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL STRUCTURES, UNDERGROUND PIPELINES, ELECTRICAL AND TELEPHONE CONDUITS, EITHER SHOWN OR NOT SHOWN ON THE PLANS PRIOR TO ANY CONSTRUCTION, AND TO OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO THESE FACILITIES. THE ENGINEER AND/OR DEVELOPER WILL NOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UNCOVER ALL EXISTING WATER AND SEWER LINES BEING CONNECTED TO, AND O VERIFY THE LOCATIONS, DEPTH, FLOWLINE ELEVATIONS, AND SIZE OF PIPE, BEFORE ANY CONSTRUCTION BEGINS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROVIDE STATIONING OR DISTANCE ON ALL NEW WATER LINES, VALVES, SERVICES, FIRE HYDRANTS, SEWER LINES, MANHOLES, CLEANOUTS, AND TAPS INSTALLED IN THE PROJECT, TO THE ENGINEER.
4. LLOYD CONSULTING GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION STAKING. THE OWNER AND/OR THE CONTRACTOR SHALL ARRANGE FOR CONSTRUCTION STAKING.
5. ANY CONSTRUCTION PERFORMED WITHOUT THE KNOWLEDGE OF THE TOWN INSPECTOR OR HIS REPRESENTATIVE IS LIABLE FOR REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
6. COMPACTION, BEDDING, AND BACKFILL SHALL BE PER M.A.G. UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
7. ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.
8. ANY QUESTIONS RAISED RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL BE RAISED PRIOR TO THE COMMENCEMENT OF THE WORK IN QUESTION.
9. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT TO CONSTRUCT/INSTALL THE IMPROVEMENT SHOWN ON THESE PLANS UNLESS SPECIFICALLY NOTED OTHERWISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "AS-BUILT" DRAWINGS TO THE MUNICIPALITY HAVING JURISDICTION IF REQUIRED.
11. DIMENSIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. DO NOT SCALE THESE PLANS.
12. THE INVERT ELEVATIONS SHOWN ON THESE PLANS HAVE BEEN DESIGNED TO PROVIDE AT LEAST FOUR (4) FEET OF COVER OVER THE TOP OF THE PIPE (EXCLUDING THE PAVEMENT THICKNESS). THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE NEWLY INSTALLED PIPES FROM DAMAGE CAUSED BY CONSTRUCTION ACTIVITY ON THE SITE PRIOR TO THE FINAL PAVEMENT SECTION BEING INSTALLED.
13. ALL VALVE BOXES, METER BOXES, MANHOLE RIMS, SEWER CLEANOUT RIMS, ETC., SHALL BE ADJUSTED TO FINAL FINISHED GRADE PER M.A.G. STANDARD DETAIL 270 AND M.A.G. STANDARD DETAIL 391-1 PRIOR TO ACCEPTANCE OF THE WORK BY OWNER.
14. TRAFFIC REGULATIONS: ALL WORK MUST COMPLY WITH REQUIREMENTS OF CURRENT "TRAFFIC BARRICADE MANUAL".
15. THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY USED DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THESE PLANS.
17. THE CONTRACTOR SHALL CALL FOR BLUE STAKE (811) TWO DAYS PRIOR TO ANY EXCAVATION.
18. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
19. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THESE PLANS.
20. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL CONSTRUCTION PER PLANS. ANY ADDITIONS, DELETIONS OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE ENGINEER.
21. QUANTITIES SHOWN HEREON ARE FOR THE PURPOSE OF TOWN APPROVAL. EACH BIDDER/CONTRACTOR SHALL INDEPENDENTLY DETERMINE QUANTITIES FOR HIS/HER OWN PURPOSE.

GENERAL DRAINAGE NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (811) PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS, ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESES CONTRACT DOCUMENTS.
5. THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
6. ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED. CONTRACTOR SHALL FLUSH AND RUN CAMERAS THROUGH EXISTING DRAINAGE SYSTEM WITHIN LIMIT OF WORK TO VERIFY SYSTEM'S INTEGRITY.
8. LENGTHS OF DRAIN LINES BETWEEN PROPOSED AND EXISTING ELEMENTS AND INVERT ELEVATIONS OF PROPOSED DRAINAGE STRUCTURES ON EXISTING DRAIN LINES ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL IN ORDER TO DETERMINE THE EXTENT AND CONDITIONS OF SITE DEMOLITION AND TO FIELD VERIFY SITE CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES PRIOR TO BID.
2. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION AND REMOVAL SITE PREPARATIONS NECESSARY FOR THE EXECUTION OF THE WORK CONTAINED IN THE CONTRACT DOCUMENTS.
3. EXISTING STORM DRAIN FACILITIES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED FROM CONSTRUCTION DEBRIS INTRUSION. THE CONTRACTOR SHALL FLUSH AND CLEAN EXISTING DRAINAGE SYSTEMS THAT ARE TO BE PROTECTED IN PLACE, WITHIN THE PROJECT LIMITS, TO THE POINT OF DISCHARGE.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. CONTRACTOR IS RESPONSIBLE FOR POT-HOLING AND UTILITY SURVEYS AS NECESSARY TO LOCATE EXISTING UTILITIES.
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BMP's AND PROTECTIONS TO DRAINS AND DRAINAGE SYSTEMS AS REQUIRED BY THE PROJECT SWPPP DOCUMENTS AND ADEQ PRIOR TO COMMENCING DEMOLITION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION NOT IDENTIFIED FOR DEMOLITION OR REMOVAL. REPLACEMENT OR REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE AND ITEM RESTORED TO EQUAL OR BETTER CONDITION.
7. THE CONTRACTOR SHALL PROVIDED NECESSARY MEASURES TO CONTROL DUST AND AIRBORNE SEDIMENT PER THE SWPPP DOCUMENTS AND AS REQUIRED BY THE STATE.
8. REFER TO AS-BUILT DRAWINGS AND GEOTECHNICAL REPORT FOR DEPTH OF EXISTING PAVING AND BASES.
9. CONTRACTOR MUST REMOVE AND DISPOSE OF ALL WEEDS, LOOSE MATERIALS.
10. THE CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS PRIOR TO DEMOLITION.
11. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING IRRIGATION SERVICE TO EXISTING LANDSCAPE MATERIAL TO REMAIN AND TO ADJACENT FIELDS BOTH DURING AND AFTER CONSTRUCTION.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION.
13. CONTRACTOR SHALL NOTIFY USA 811 PRIOR TO ANY DEMOLITION OR EXCAVATION.
14. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCING PLAN SUBMITTAL FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
15. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES NOT SPECIFICALLY CALLED OUT FOR REMOVAL UNTIL WHICH TIME HE HAS DETERMINED THAT A DIRECT CONFLICT EXISTS WITH THE CONSTRUCTION OF ANY NEW FACILITIES. THE CONTRACTOR SHALL THEN BE RESPONSIBLE TO REMOVE OR RELOCATE ANY SUCH UTILITIES.
16. CONTRACTOR TO POTHOLE ALL UTILITIES PRIOR TO CONSTRUCTION.
17. CONTRACTOR SHALL FOLLOW ALL APPLICABLE LOCAL AND GOVERNMENTAL LAWS REGARDING THE DEMOLITION, REMOVAL, TRANSPORTATION, AND DISPOSAL OF ASBESTOS CEMENT PIPE. CONTRACTOR SHALL DEVELOP AND ADHERE TO A JOB SITE SAFETY PLAN FOR THIS PORTION OF WORK IN ORDER TO MINIMIZE EXPOSURE AND ENSURE THE HEALTH AND SAFETY OF ALL PERSONAL IN THE AREA.
18. THE CONTRACTOR IS TO VERIFY THAT ALL EXISTING IMPROVEMENTS ARE SHOWN.
19. THE EXISTING TOPOGRAPHIC INFORMATION AND UNDERGROUND UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM THE BEST AVAILABLE DATA INCLUDING GROUND SURVEYS AND AS-BUILT PLANS. THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT DEPTH, SIZE, AND LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK.
21. THE CONTRACTOR SHALL VERIFY CRITICAL ELEVATIONS USING THE BENCHMARK PROVIDED BY THE SURVEYOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE SURVEYOR'S AND ENGINEER'S ATTENTION.
22. PROTECT ALL EXISTING UNDERGROUND STORM DRAINS, WATER LINES, ELECTRICAL LINES, AND OTHER UTILITIES THAT ARE NOT SPECIFICALLY CALLED OUT FOR REMOVAL.

QUEEN CREEK PAVING NOTES:

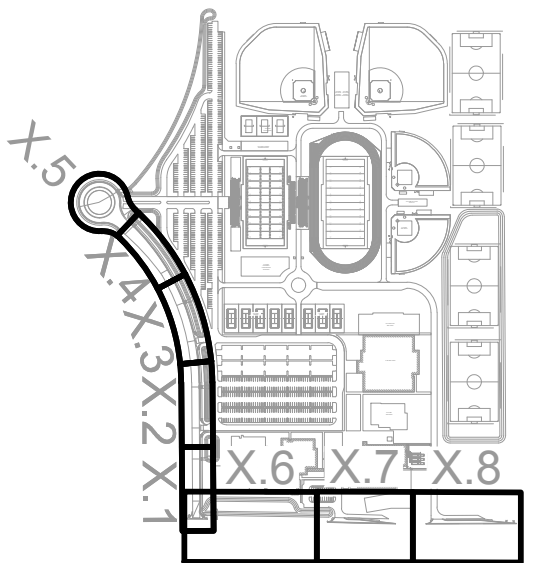
1. THE BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED BY THE ENGINEERING MANAGER AND/OR HIS REPRESENTATION
2. BLUE REFLECTIVE SPOTTERS SHALL BE INSTALLED ON THE STREET PAVEMENT AT FIRE HYDRANT LOCATION IN ACCORDANCE WITH MAG STANDARDS.
3. STREET NAME SIGNS WILL BE INSTALLED AT THE DEVELOPERS' EXPENSE.
4. ALL WORK UNDER THE ENCROACHMENT PERMITS SHALL BE DONE IN ACCORDANCE WITH LATEST REVISIONS OF THE MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATION AND DETAILS (MAG SPECIFICATION AND DETAILS), TOWN OF QUEEN CREEK SUPPLEMENT TO THE MAG SPECIFICATION AND DETAILS, AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
5. A RIGHT-OF-WAY ENCROACHMENT PERMIT ISSUED BY THE TOWN ENGINEERING DIVISION SHALL BE REQUIRED FOR ALL WORK IN THE TOWN OF QUEEN CREEK RIGHT-OF-WAYS.
6. THE PUBLIC WORKS DEPARTMENT (480-358-3003) SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING THE DIFFERENT PHASES OF CONSTRUCTION FOR SCHEDULING INSPECTIONS.
7. ACCEPTANCE OF THE COMPLETED RIGHT-OF-WAY IMPROVEMENTS WILL NOT BE GIVEN UNTIL 4 MIL MYLAR REPRODUCIBLE AS-BUILTS AND CD IN PDF FORMAT HAVE BEEN SUBMITTED TO AND APPROVED BY THE TOWN'S ENGINEERING DIVISION.
8. LOCATION OF ALL WATER VALVES, MANHOLES AND CLEANOUTS MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND ACCESS MADE AVAILABLE TO THE PRIVATE WATER COMPANYS AND THE TOWN PUBLIC WORK DEPARTMENT.
9. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM AND ON-SITE ARE COMPLETED.
10. STAKING SHALL INCLUDE:
 - A. RIGHT-OF-WAY LINES AT 100'
 - B. PRE-GRADE AND REFERENCE CONTROL –AS NECESSARY
 - C. CULVERT, STORM DRAIN AND DITCH INVERTS AT 50' INTERVALS AND BREAKS IN GRADE
 - D. BLUETOP SUBGRADE AT CENTERLINE AND UNCURBED EDGE OF PAVEMENT AT 50' INTERVALS
 - E. BLUETOP ABC AT CENTERLINE, UNCURBED EDGE OF PAVEMENT AND 1/4 POINTS AT 50' INTERVALS.
 - F. STRADDLE POINTS FOR PERMANENT MONUMENTS. PUNCH THE MONUMENT CAP AFTER SETTING.
 - G. STRUCTURE LOCATION AND GRADES.
 - H. CONCRETE CURB AND GUTTER AT 50' INTERVALS MAXIMUM. ON HORIZONTAL OR VERTICAL CURVES, AND ON GRADES LESS THAN 05%, STAKE AT 25' MAXIMUM INTERVALS. STAKE ALL CURB RETURNS AT THE P.C. AND THE 1/4 POINTS OF RETURN.
11. GUTTERS SHALL BE WATER TESTED IN THE PRESENCE OF THE PUBLIC WORKS DEPARTMENT TO INSURE PROPER DRAINAGE PRIOR TO THE FINAL APPROVAL BY THE TOWN ENGINEERING DIVISION AND PUBLIC WORKS DEPARTMENT.
12. EXACT POINT OF MATCHING, TERMINATION AND OVERLAY, IF NECESSARY, MAY BE DETERMINED IN THE FIELD BY THE TOWN ENGINEERING DIVISION AND/OR THE PUBLIC WORKS DEPARTMENT.
13. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDE WALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS AND ALL SURVEY
14. THE TOWN WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION UNLESS OTHERWISE SPECIFIED ON THESE PLANS.
15. THE CONTRACTOR SHALL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATIONS. THE CONTRACTOR SHALL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PIPELINES, TELEPHONE AND ELECTRICAL CONDUITS, AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL OBSERVE ALL POSSIBLE PRE CAUTIONS TO AVOID DAMAGE TO SAME. CALL BLUE STAKE AT 1-800-STAKE-IT.
16. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE KNOWLEDGE.
17. CONSTRUCTION LIMITS– ADEQUATELY STAKE, FENCE, AND SIGN THE CONSTRUCTION LIMITS. THE CONSTRUCTION LIMITS SHALL REMAIN MARKED THROUGHOUT THE CONSTRUCTION PERIOD.
18. EARTHWORK SHALL BE PERFORMED ACCORDING TO THE GEOTECHNICAL REPORT DONE BY RAMM DATED AUGUST 26, 2020. ALL COMPACTION UNDER PAVEMENT AREAS SHALL BE PREFORMED ACCORDING TO MAG SPECIFICATIONS AND/OR THE SOILS REPORT RECOMMENDATIONS.
19. PRIOR TO CONSTRUCTION: A TRAFFIC CONTROL PLAN FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PROVIDED TO THE TOWN PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL. PAD COMPACTION CERTIFICATION SHALL BE SUBMITTED TO THE PUBLIC WORKS DESIGNATED INSPECTOR PRIOR TO ANY BUILDING CONSTRUCTION. SCHEDULE ALL PRE-CONSTRUCTION MEETINGS THROUGH THE TOWN PUBLIC WORKS DESIGNATED INSPECTOR.
20. AN APPROVED (SIGNED-OFF) GRADING, DRAINAGE AND PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLANS MUST BE PRECEDED BY AN APPROVED PLAN REVISION, OR SUBJECT TO "WORK STOP ORDER" BY THE TOWN PUBLIC WORKS DEPARTMENT INSPECTOR TO REMOVE ANY WORK THAT DOES NOT REFLECT THE APPROVED IMPROVEMENT PLANS.

QUEEN CREEK SWPPP NOTES:



1. A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE NOTICE OF INTENT (NOI) AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF THE GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE SWPPP SHALL BE CONSIDERED PART OF THE SWPPP.
2. THE CONTRACTOR SHALL NOTIFY THE TOWN OF QUEEN CREEK PUBLIC WORKS DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF ANY INSPECTIONS.
3. THE OPERATOR SHALL OBTAIN A DUST CONTROL PERMIT FROM THE COUNTY AND PERFORM MEASURES AS REQUIRED BY THE PERMIT TO PREVENT EXCESS DUST.
4. THE OPERATOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE ONCE EVERY MONTH AND WITHIN 24 HOURS OF RAINFALL GREATER THAN OR EQUAL TO ONE HALF INCH OR MORE. THE OPERATOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE SWPPP CONTROLS AND NOTE ANY EROSION PROBLEM AREAS. THE OPERATORS REPORT IS TO BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL. FACILITIES SHALL BE MAINTAINED AS NECESSARY TO ENSURE THERE CONTINUED FUNCTIONING. IN ADDITION, ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, AND THE POTENTIAL FOR EROSION HAS PASSED.
5. THE OPERATOR SHALL AMEND THIS PLAN AS NECESSARY DURING THE COARSE OR CONSTRUCTION TO RESOLVE ANY PROBLEM AREAS THAT BECOME EVIDENT DURING THE CONSTRUCTION AND/OR DURING RAINFALLS.
6. THE PERMITTEE SHALL FILE A NOTICE OF TERMINATION (NOT) AFTER COMPLETION OF CONSTRUCTION AND PLACEMENT OF FINAL LANDSCAPE MATERIALS. THE NOT IS TO BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT TO FINAL THE SWPPP PERMIT.
7. THE PERMITTEE SHALL SAVE ALL RECORDS, INCLUDING THE NOI, SWPPP, NOT, AND THE INSPECTION REPORTS, ON FILE FOR A MINIMUM OF THREE YEARS FROM THE DATE OF FILING THE NOT.
8. THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND THE NOT IS SUBMITTED TO THE PUBLIC WORKS DEPARTMENT.
9. THE FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
10. THE CONTRACTOR'S NOI MUST BE RECEIVED PRIOR TO THE SWPPP PERMIT BEING ISSUED. THE CONTRACTOR THAT WILL BE PULLING THE G&D PERMIT MUST HAVE THE SWPPP PERMIT IN THEIR NAME.



7349 N. VIA PASEO DEL SUR
SUITE 515-324
SCOTTSDALE, ARIZONA 85258
PH 602.635.4226



CONSTRUCTION
DOCUMENTS



REV. _____

CRISMON ROAD
IMPROVEMENT
PLANS

QUEEN CREEK, AZ

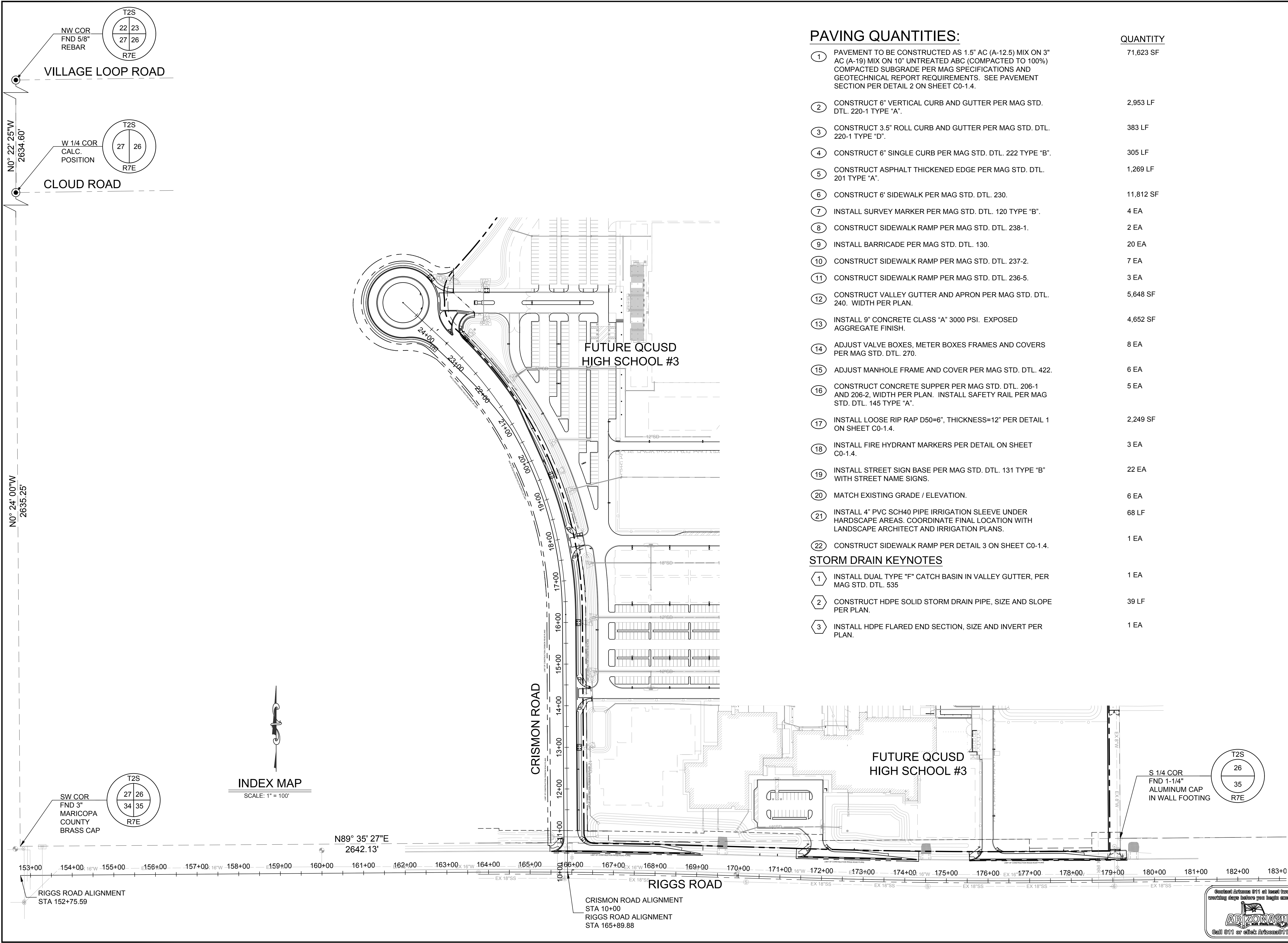
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DATE: OCT 29, 2021
DRAWN: TML
PROJ. 20-160
SCALE:

GENERAL NOTES

DWG. NO.
C0-1.2



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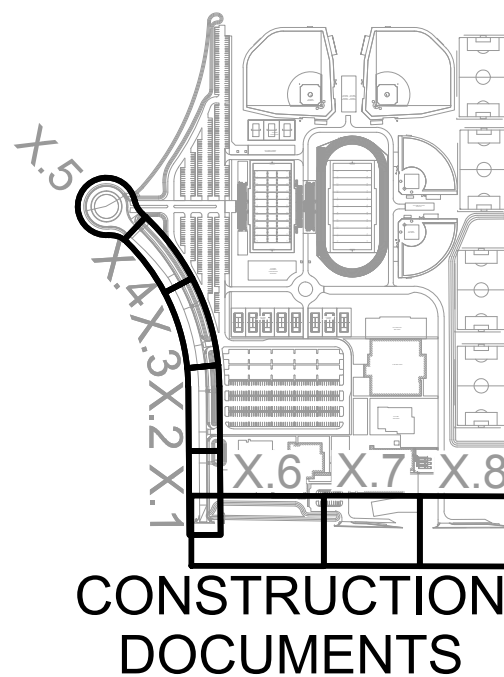


PAVING QUANTITIES:

| | | QUANTITY |
|----|--|-----------|
| 1 | PAVEMENT TO BE CONSTRUCTED AS 1.5" AC (A-12.5) MIX ON 3" AC (A-19) MIX ON 10" UNTREATED ABC (COMPACTED TO 100%) COMPACTED SUBGRADE PER MAG SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS. SEE PAVEMENT SECTION PER DETAIL 2 ON SHEET C0-1.4. | 71,623 SF |
| 2 | CONSTRUCT 6" VERTICAL CURB AND GUTTER PER MAG STD. DTL. 220-1 TYPE "A". | 2,953 LF |
| 3 | CONSTRUCT 3.5" ROLL CURB AND GUTTER PER MAG STD. DTL. 220-1 TYPE "D". | 383 LF |
| 4 | CONSTRUCT 6" SINGLE CURB PER MAG STD. DTL. 222 TYPE "B". | 305 LF |
| 5 | CONSTRUCT ASPHALT THICKENED EDGE PER MAG STD. DTL. 201 TYPE "A". | 1,269 LF |
| 6 | CONSTRUCT 6" SIDEWALK PER MAG STD. DTL. 230. | 11,812 SF |
| 7 | INSTALL SURVEY MARKER PER MAG STD. DTL. 120 TYPE "B". | 4 EA |
| 8 | CONSTRUCT SIDEWALK RAMP PER MAG STD. DTL. 238-1. | 2 EA |
| 9 | INSTALL BARRICADE PER MAG STD. DTL. 130. | 20 EA |
| 10 | CONSTRUCT SIDEWALK RAMP PER MAG STD. DTL. 237-2. | 7 EA |
| 11 | CONSTRUCT SIDEWALK RAMP PER MAG STD. DTL. 236-5. | 3 EA |
| 12 | CONSTRUCT VALLEY GUTTER AND APRON PER MAG STD. DTL. 240. WIDTH PER PLAN. | 5,648 SF |
| 13 | INSTALL 9" CONCRETE CLASS "A" 3000 PSI. EXPOSED AGGREGATE FINISH. | 4,652 SF |
| 14 | ADJUST VALVE BOXES, METER BOXES FRAMES AND COVERS PER MAG STD. DTL. 270. | 8 EA |
| 15 | ADJUST MANHOLE FRAME AND COVER PER MAG STD. DTL. 422. | 6 EA |
| 16 | CONSTRUCT CONCRETE SUPPER PER MAG STD. DTL. 206-1 AND 206-2, WIDTH PER PLAN. INSTALL SAFETY RAIL PER MAG STD. DTL. 145 TYPE "A". | 5 EA |
| 17 | INSTALL LOOSE RIP RAP D50=6", THICKNESS=12" PER DETAIL 1 ON SHEET C0-1.4. | 2,249 SF |
| 18 | INSTALL FIRE HYDRANT MARKERS PER DETAIL ON SHEET C0-1.4. | 3 EA |
| 19 | INSTALL STREET SIGN BASE PER MAG STD. DTL. 131 TYPE "B" WITH STREET NAME SIGNS. | 22 EA |
| 20 | MATCH EXISTING GRADE / ELEVATION. | 6 EA |
| 21 | INSTALL 4" PVC SCH40 PIPE IRRIGATION SLEEVE UNDER HARDSCAPE AREAS. COORDINATE FINAL LOCATION WITH LANDSCAPE ARCHITECT AND IRRIGATION PLANS. | 68 LF |
| 22 | CONSTRUCT SIDEWALK RAMP PER DETAIL 3 ON SHEET C0-1.4. | 1 EA |

STORM DRAIN KEYNOTES

| | | |
|---|---|-------|
| 1 | INSTALL DUAL TYPE "F" CATCH BASIN IN VALLEY GUTTER, PER MAG STD. DTL. 535 | 1 EA |
| 2 | CONSTRUCT HDPE SOLID STORM DRAIN PIPE, SIZE AND SLOPE PER PLAN. | 39 LF |
| 3 | INSTALL HDPE FLARED END SECTION, SIZE AND INVERT PER PLAN. | 1 EA |



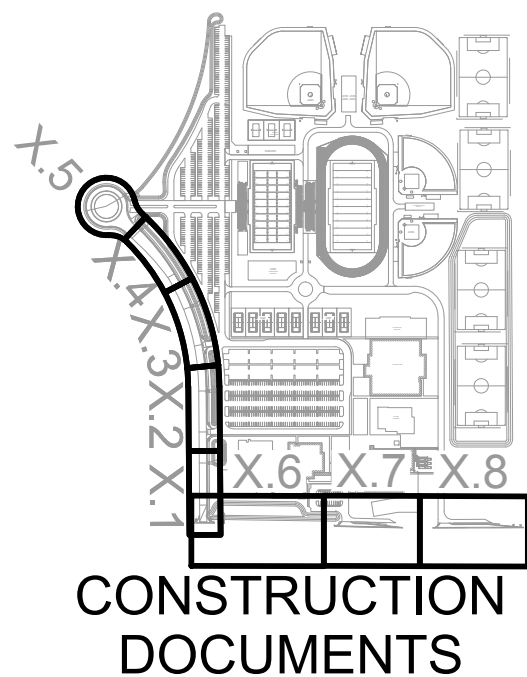
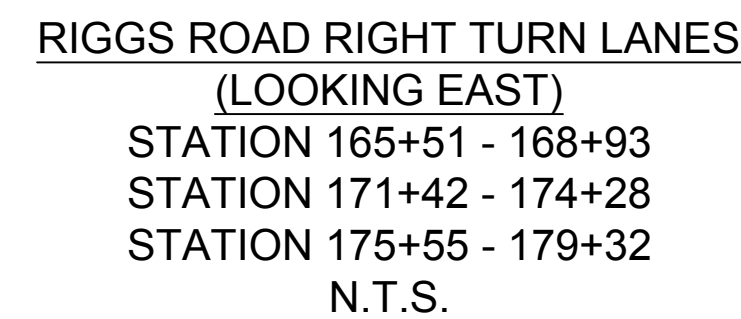
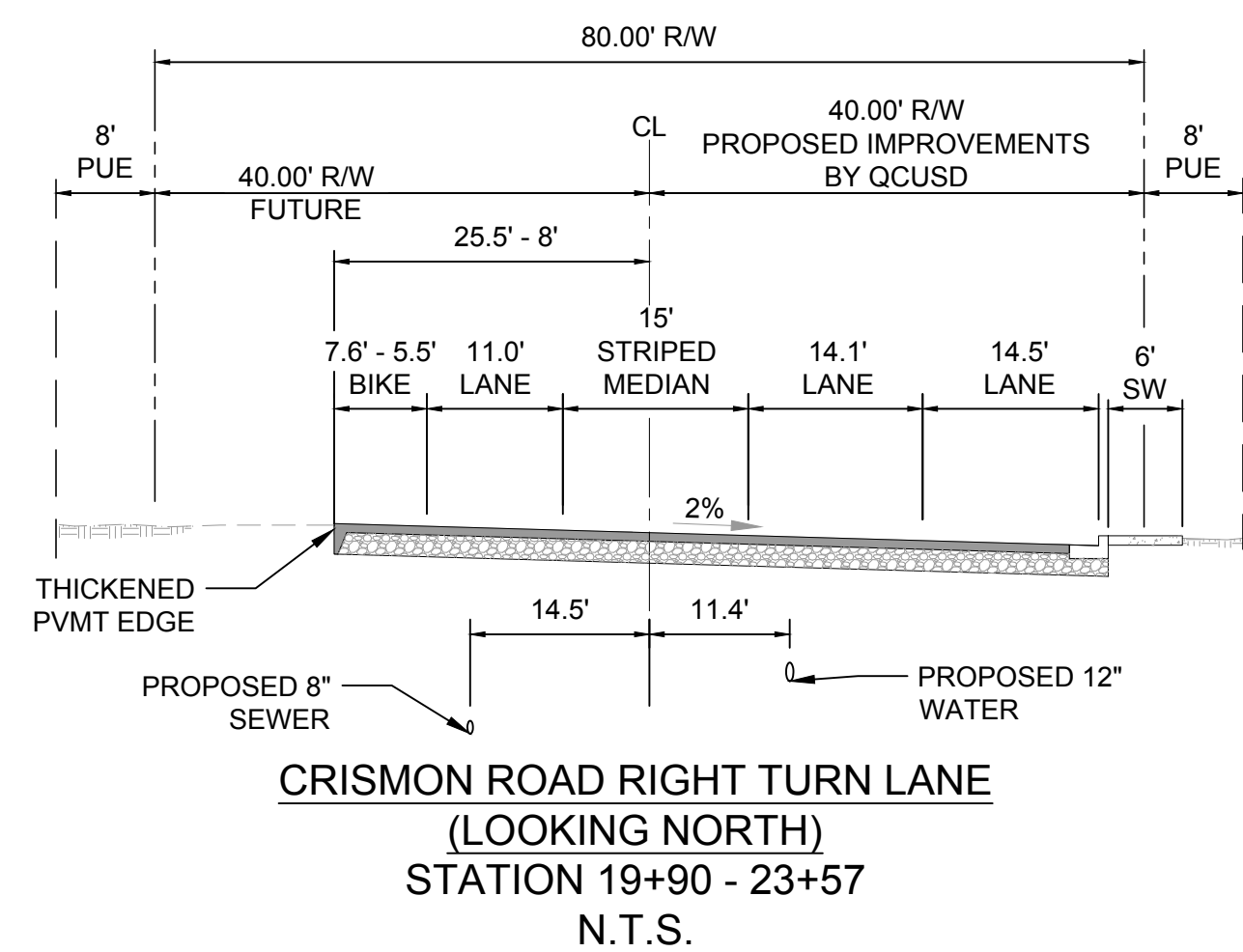
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| REV. | |
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CRISMON ROAD IMPROVEMENT PLANS

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|-----------|--------------|
| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | TML |
| PROJ. | 20-160 |
| SCALE: | 1" = 100' |

INDEX MAP AND QUANTITIES

DWG. NO.
C0-1.3



REV

QUEEN CREEK, AZ

| | |
|-----------|--------------|
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DWG. NO.

C0-1.4



PROTECT IN PLACE KEYNOTES:

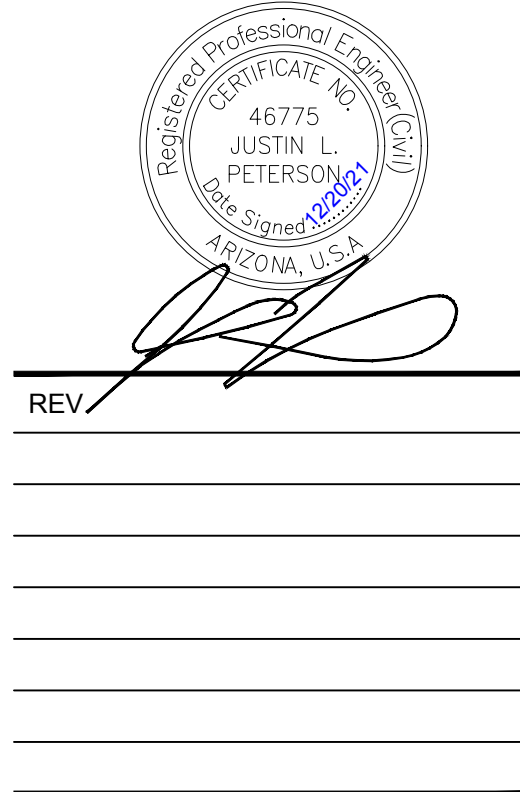
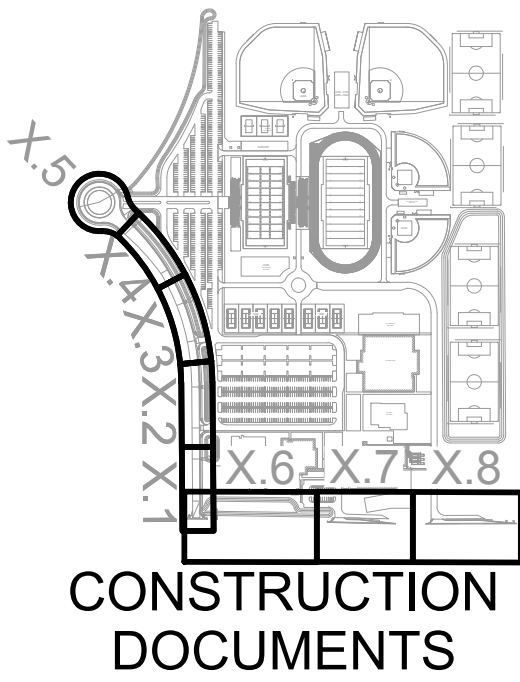
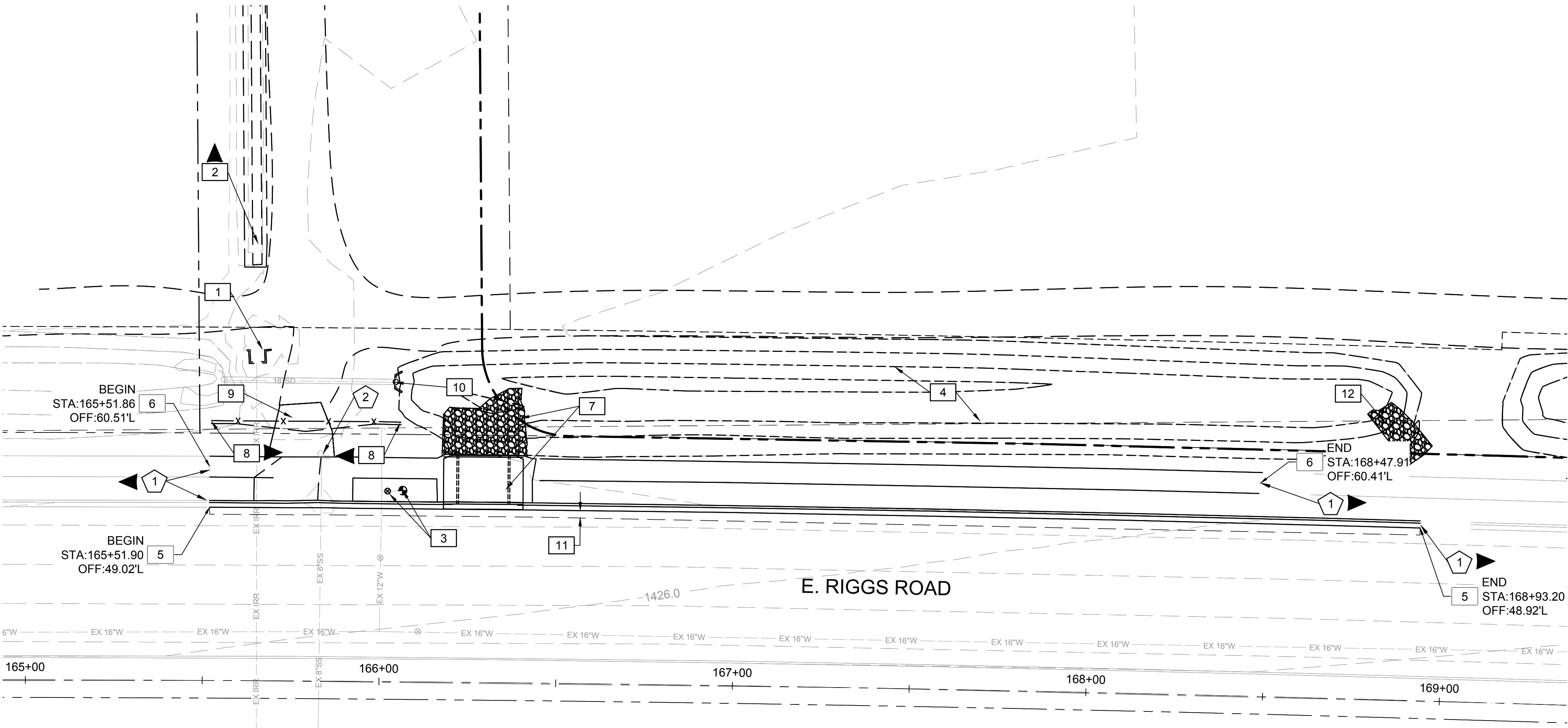
- 1
- PROTECT IN PLACE EXISTING CONCRETE SIDEWALK AND CURB IN RIGGS ROAD.
- 2
- PROTECT IN PLACE EXISTING SANITARY SEWER CLEANOUT.

DEMOLITION KEYNOTES:

- 1
- DEMO EXISTING HEADWALL AND CAP IN PLACE EXISTING IRRIGATION PIPE.
- 2
- REMOVE AND DISPOSE OF EXISTING CONCRETE IRRIGATION CHANNEL AND ASSOCIATED IRRIGATION CONNECTOR PIPES.
- 3
- REMOVE AND RELOCATE EXISTING FIRE HYDRANT AND VALVE PER CRISMON ROAD WATER PLANS.
- 4
- EXISTING RIGGS ROAD RETENTION BASINS TO BE REGRADED INTO NEW ONSITE RETENTION BASINS WITH MASS GRADING PLANS.
- 5
- DEMO AND DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
- 6
- DEMO AND DISPOSE OF EXISTING CONCRETE SIDEWALK
- 7
- DEMO AND DISPOSE OF EXISTING CONCRETE SCUPPER AND ASSOCIATED RIP-RAP.
- 8
- REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCING.
- 9
- DEMO AND DISPOSE OF EXISTING CONCRETE DRIVEWAY.
- 10
- DEMO EXISTING HEADWALL AND CONNECT STORM DRAIN EXTENSION PER MASS GRADING PLANS.
- 11
- SAWCUT AND REMOVE 2 FOOT WIDE ASPHALT PAVEMENT ADJACENT TO ROADWAY CUT. PAVEMENT TO BE CUT AT A NEAT LINE.
- 12
- DEMO AND DISPOSE OF EXISTING RIP-RAP APRON.
- 13
- REMOVE AND DISPOSE OF EXISTING CONCRETE DRIVEWAY AT 220TH STREET ALIGNMENT.

GENERAL NOTES:

1.
- THE TOP 4" (MIN) AND ANY ADDITIONAL DEPTH AS NEEDED TO CLEAR EXCESSIVE ORGANICS OR OTHER UNSUITABLE MATERIAL FOR COMPACTED SUBGRADE WAS COMPLETED DURING MASS GRADING.
2.
- ALL CURB, GUTTER AND SIDEWALK SAWCUTS ARE TO THE NEAREST JOINT.
3.
- REFER TO SIGNING AND STRIPING PLANS FOR LANE OBLITERATION AND CONTINUATION.



CRISMON ROAD
IMPROVEMENT
PLANS

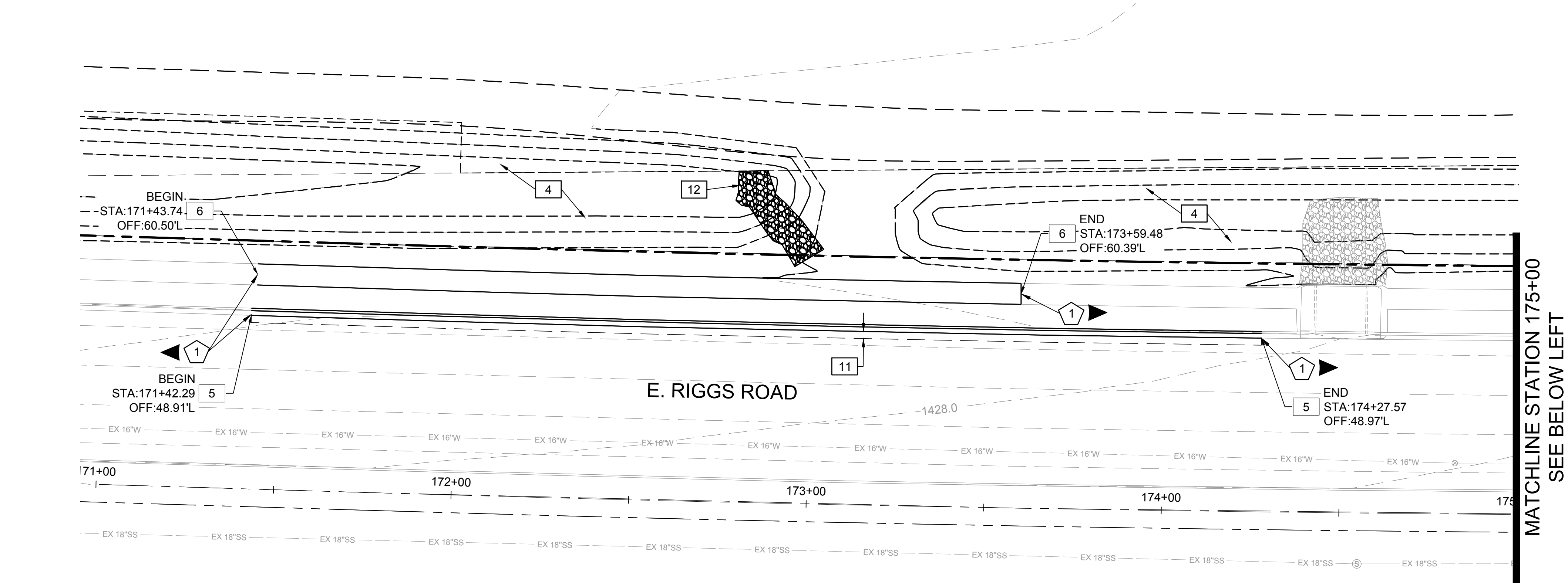
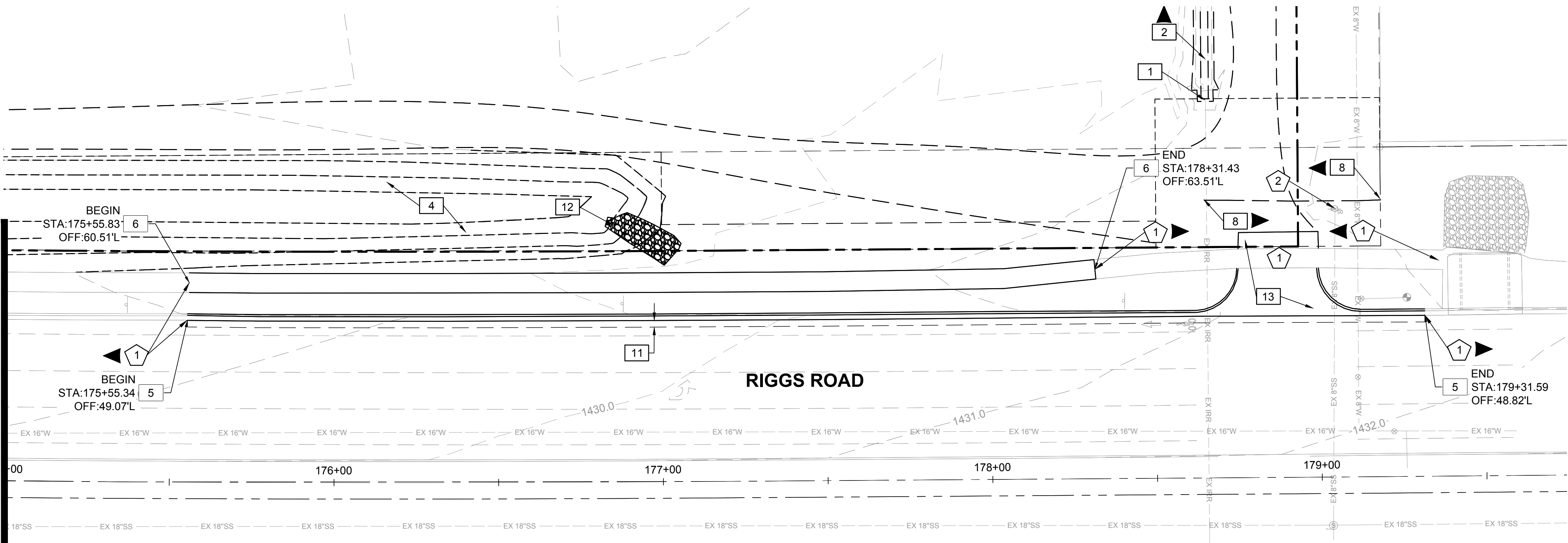
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DEMOLITION PLAN

DWG. NO.
C0-2.1

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MATCHLINE STATION 175+00
SEE UPPER RIGHT



PROTECT IN PLACE KEYNOTES:

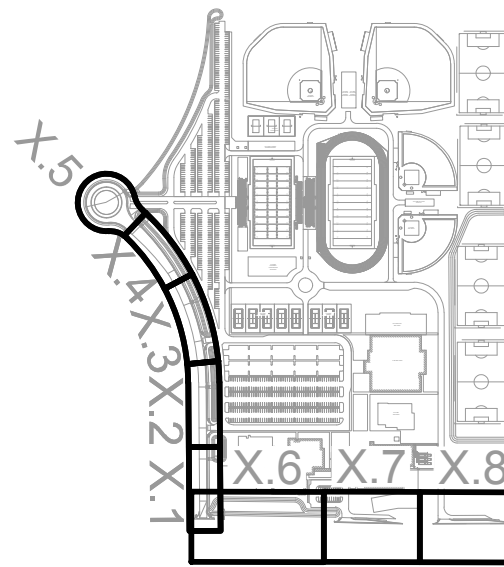
1. PROTECT IN PLACE EXISTING CONCRETE SIDEWALK AND CURB IN RIGGS ROAD.
2. PROTECT IN PLACE EXISTING SANITARY SEWER CLEANOUT.

DEMOLITION KEYNOTES:

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CONSTRUCTION
DOCUMENTS



REV.

CRISMON ROAD
IMPROVEMENT
PLANS

QUEEN CREEK, AZ

DESIGNED: JLP
DATE: OCT 29, 2021
DRAWN: TML
PROJ. 20-160
SCALE: 1" = 20'

DEMOLITION PLAN

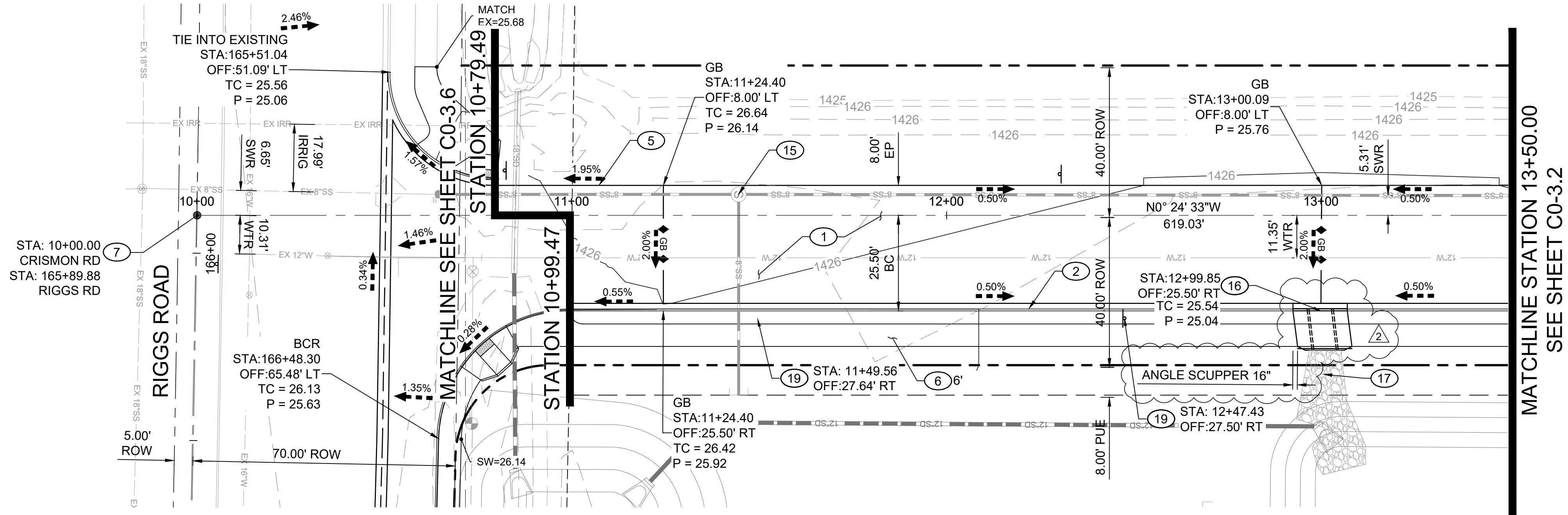
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C0-2.2

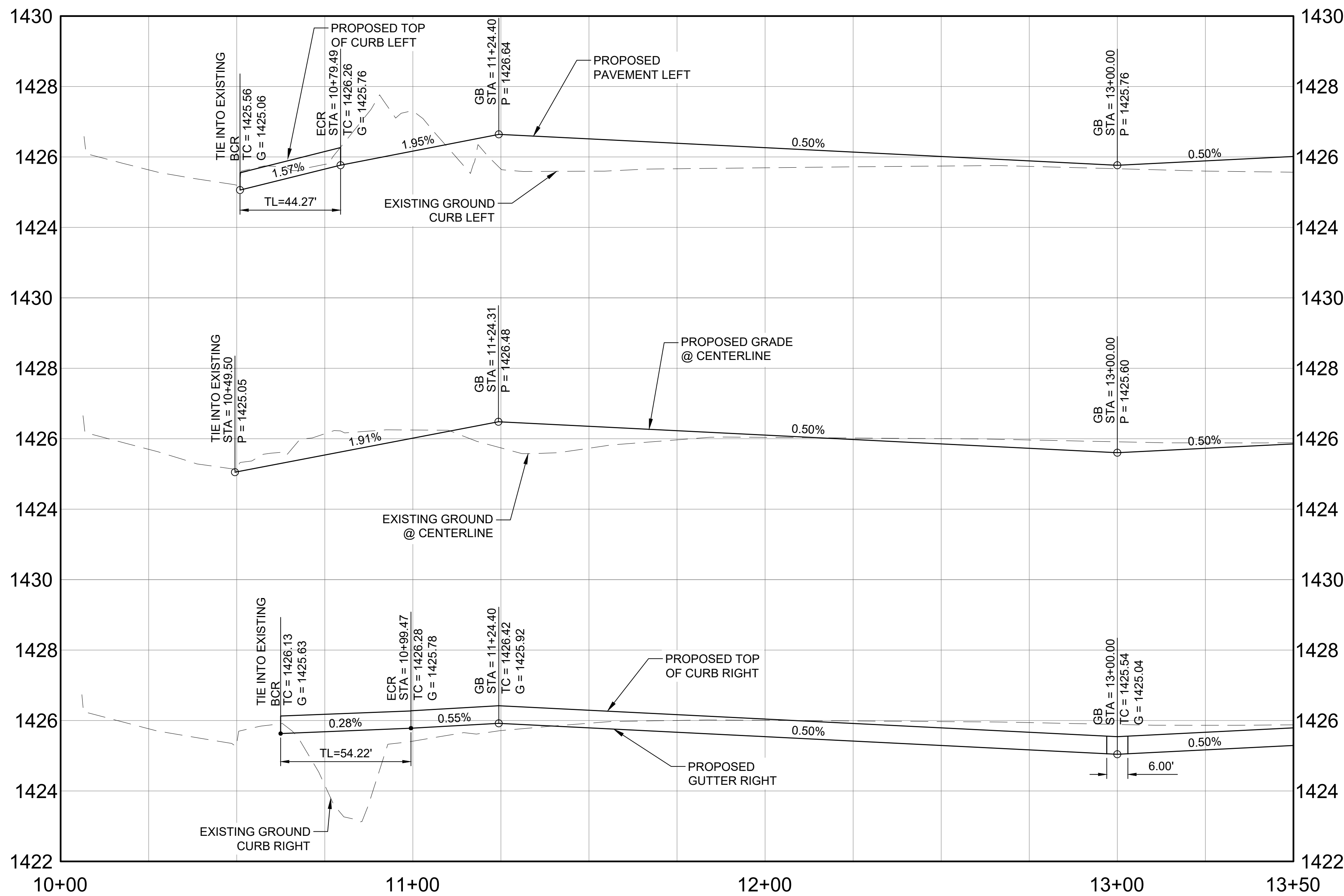
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CRISMON ROAD

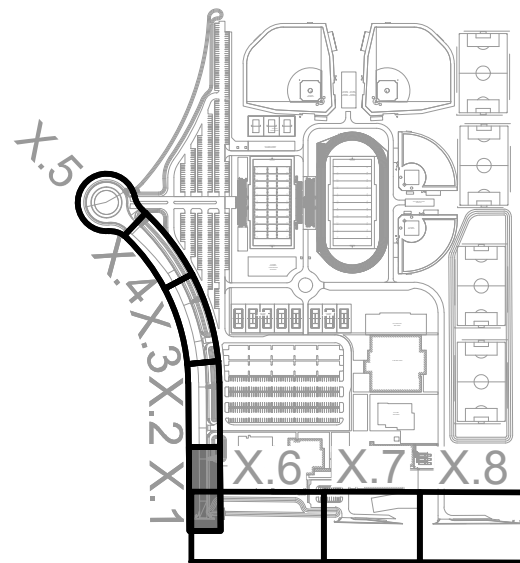
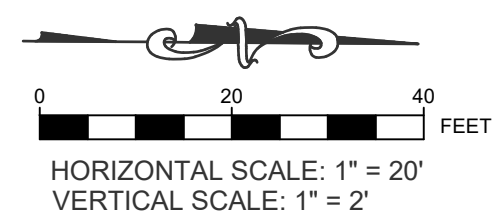


PAVING KEYNOTES

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- INSTALL BARRICADE PER MAG STD. DTL. 130.
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GENERAL NOTES

- NOTE ALL CONSTRUCTION NOTES ARE NOT REPRESENTED ON THIS SHEET.
- REFER TO STREET LIGHT PLANS TRAFFIC SIGNAL DESIGN AND STREET LAMP LOCATIONS.
- REFER TO IRRIGATION AND LANDSCAPE PLANS FOR RIGHT OF WAY PLANTINGS.



CONSTRUCTION DOCUMENTS



| REV. | | |
|------|---------------|----------|
| 2 | SCUPPER SHIFT | 05/06/22 |
| 1 | SEWER TIE-IN | 12/21/21 |

CRISMON ROAD IMPROVEMENT PLANS

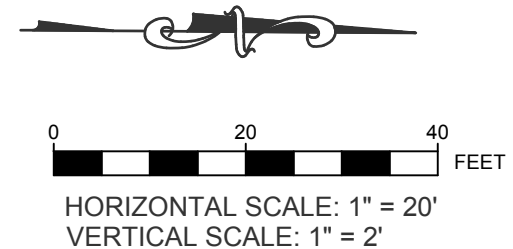
QUEEN CREEK, AZ

| | |
|-----------|--------------|
| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | SAW |
| PROJ. | 20-160 |
| SCALE: | 1" = 20' |

PAVING PLAN & PROFILE

DWG. NO.

C0-3.1



Contact Arizona 811 at least two full working days before you begin excavation



Call 811 or click Arizona811.com

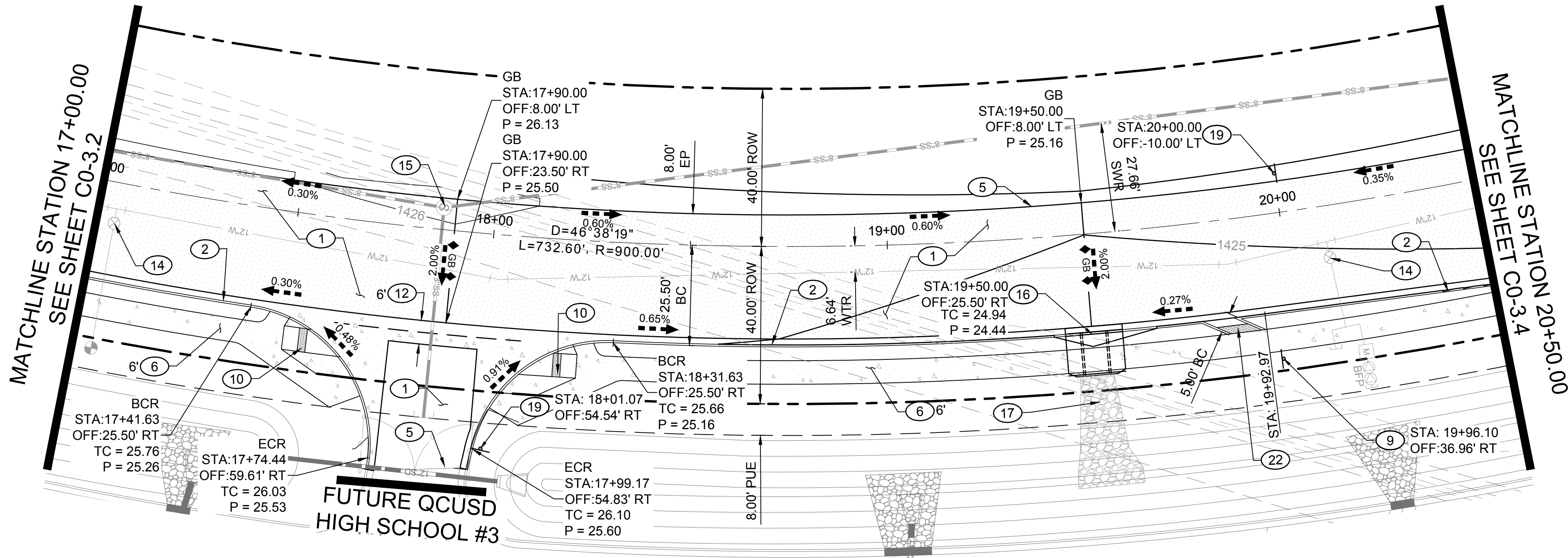
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| QUEEN CREEK, AZ | |
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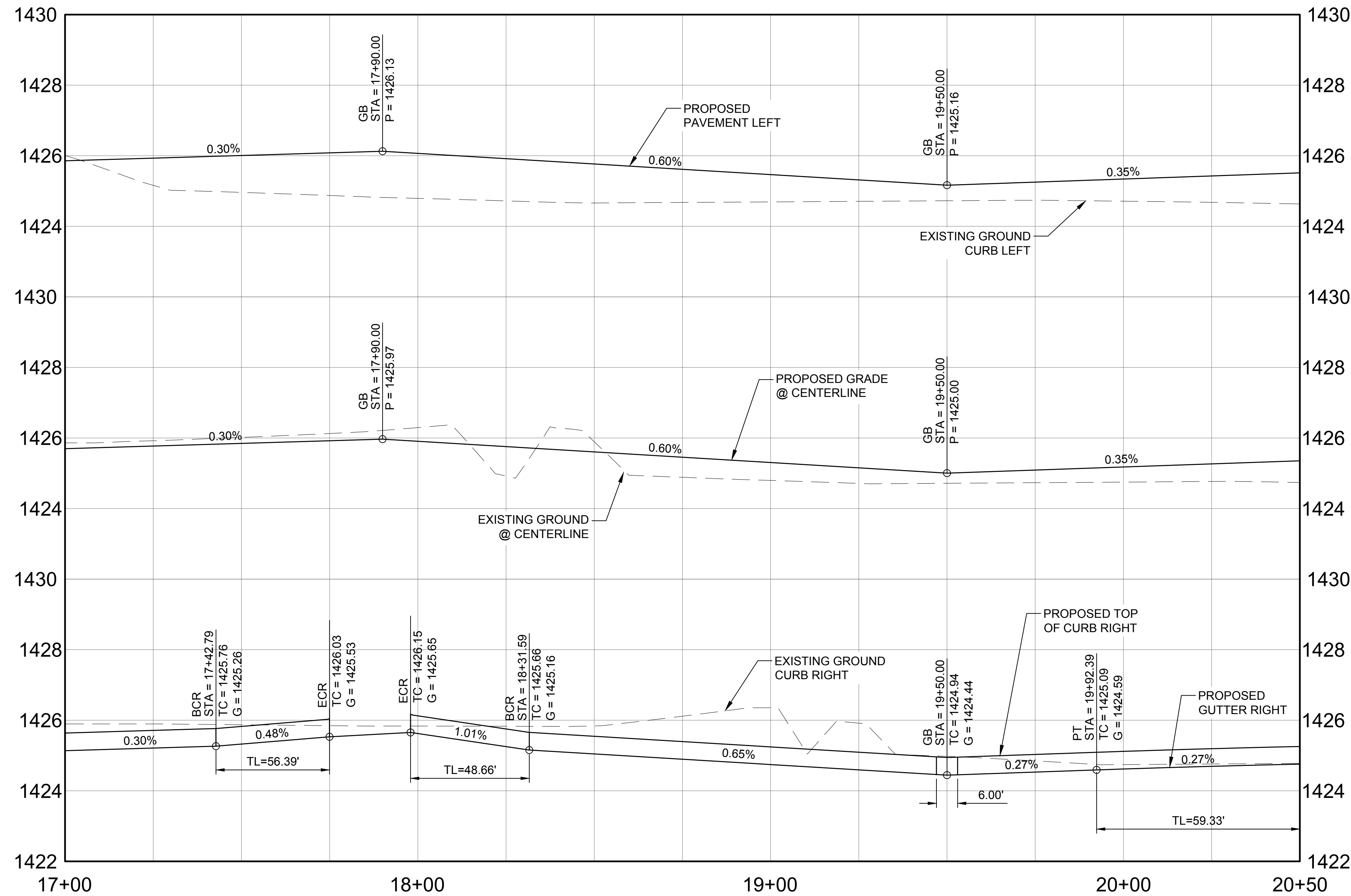
DWG. NO.

C0-3.2

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CRISMON ROAD

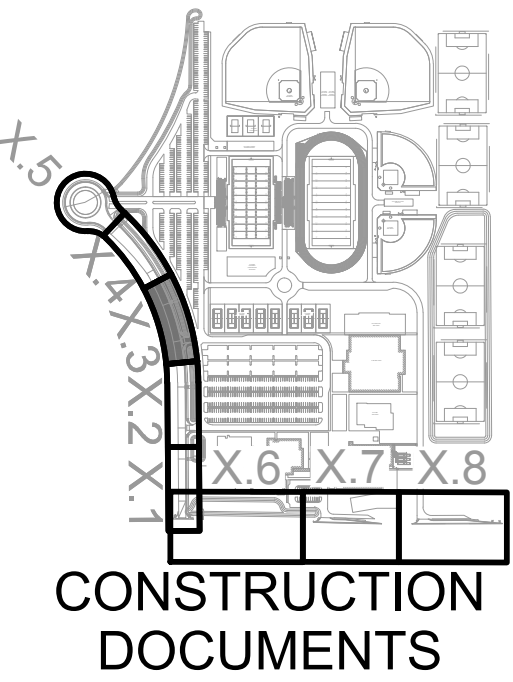
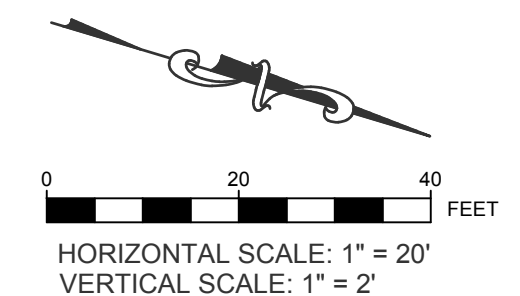


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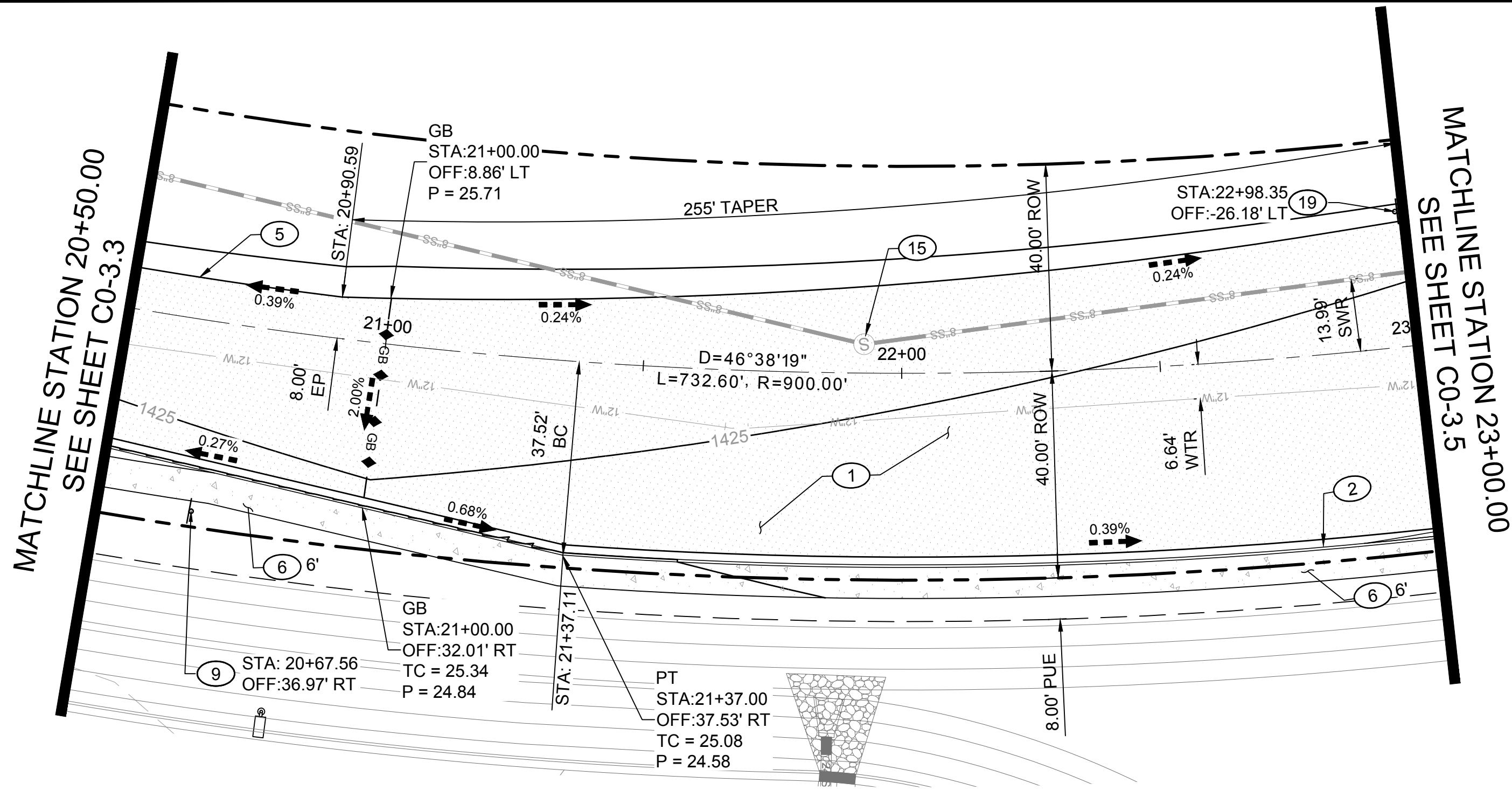
CRISMON ROAD IMPROVEMENT PLANS

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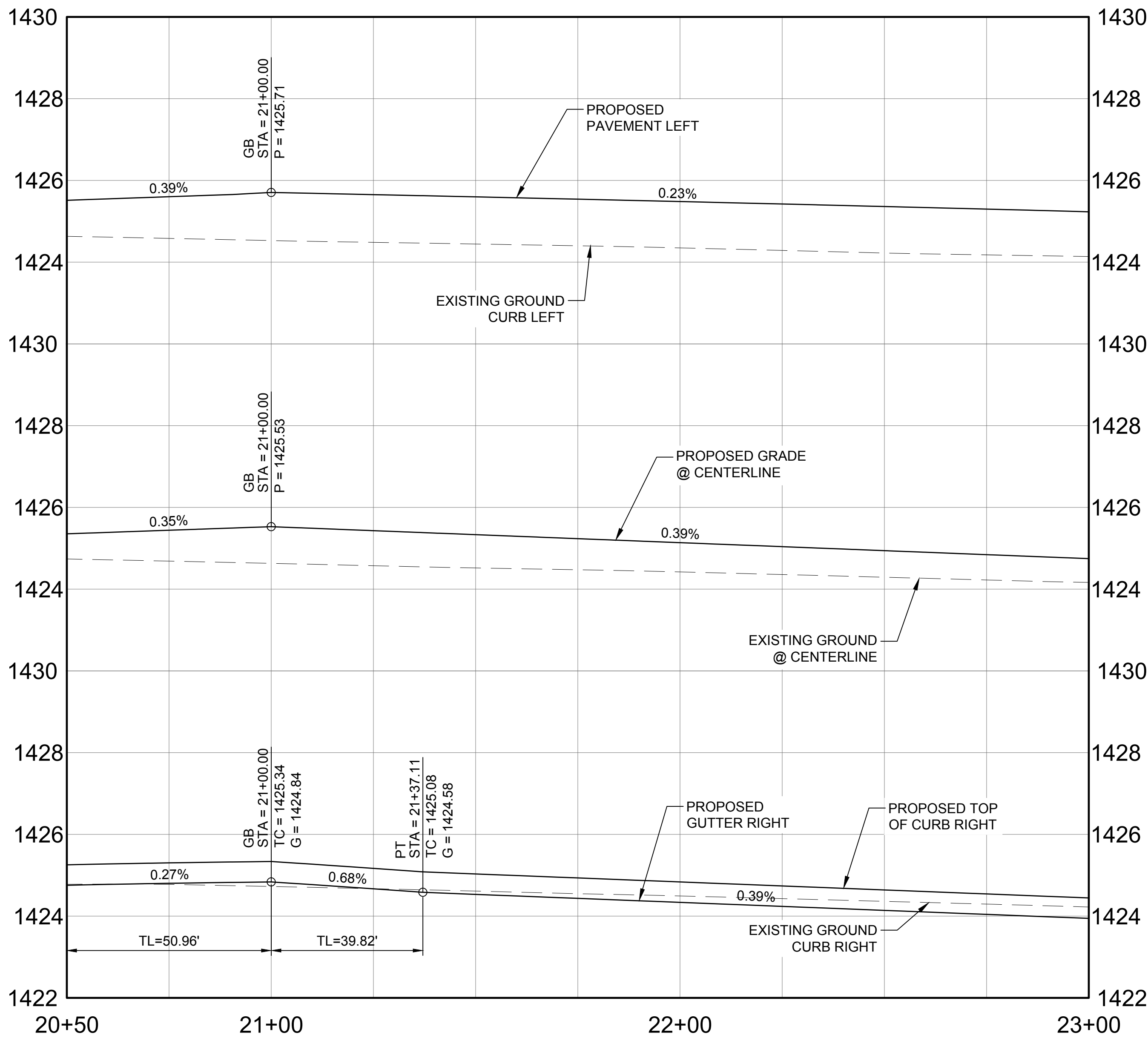
PAVING PLAN & PROFILE

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C0-3.3

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CRISMON ROAD

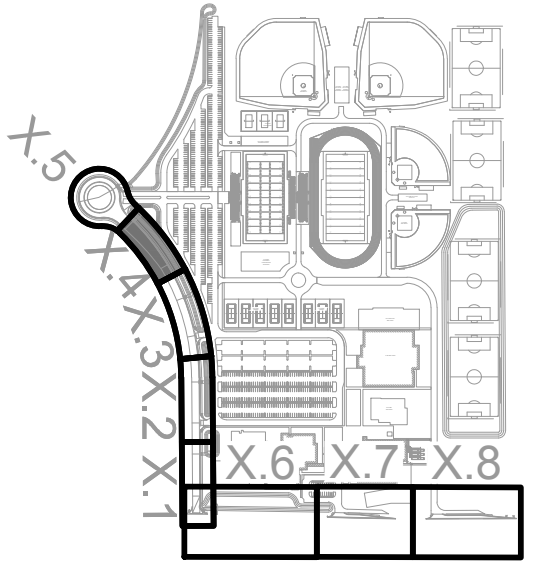
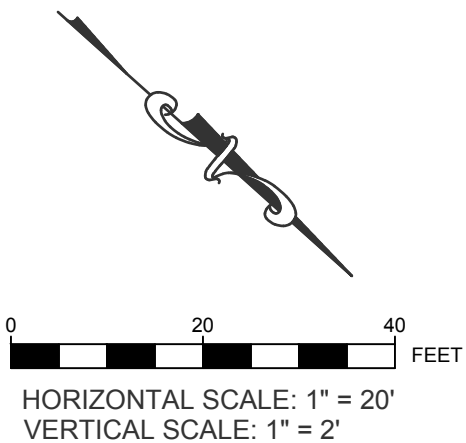


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- CONSTRUCT 6" SIDEWALK PER MAG STD. DTL. 230.
- INSTALL SURVEY MARKER PER MAG STD. DTL. 120 TYPE "B".
- CONSTRUCT SIDEWALK RAMP PER MAG STD. DTL. 238-1.
- INSTALL BARRICADE PER MAG STD. DTL. 130.
- CONSTRUCT SIDEWALK RAMP PER MAG STD. DTL. 237-2.
- CONSTRUCT SIDEWALK RAMP PER MAG STD. DTL. 236-5.
- CONSTRUCT VALLEY GUTTER AND APRON PER MAG STD. DTL. 240. WIDTH PER PLAN.
- INSTALL 9" CONCRETE CLASS "A" 3000 PSI. EXPOSED AGGREGATE FINISH.
- ADJUST VALVE BOXES, METER BOXES FRAMES AND COVERS PER MAG STD. DTL. 270.
- ADJUST MANHOLE FRAME AND COVER PER MAG STD. DTL. 422.
- CONSTRUCT CONCRETE SUPPER PER MAG STD. DTL. 206-1 AND 206-2, WIDTH PER PLAN. INSTALL SAFETY RAIL PER MAG STD. DTL. 145 TYPE "A".
- INSTALL LOOSE RIP RAP D50=6", THICKNESS=12" PER DETAIL 1 ON SHEET C0-1.4.
- INSTALL FIRE HYDRANT MARKERS PER DETAIL ON SHEET C0-1.4.
- INSTALL STREET SIGN BASE PER MAG STD. DTL. 131 TYPE "B" WITH STREET NAME SIGNS.
- MATCH EXISTING GRADE / ELEVATION.
- INSTALL 4" PVC SCH40 PIPE IRRIGATION SLEEVE UNDER HARDSCAPE AREAS. COORDINATE FINAL LOCATION WITH LANDSCAPE ARCHITECT AND IRRIGATION PLANS.
- CONSTRUCT SIDEWALK RAMP PER DETAIL 3 ON SHEET C0-1.4.

GENERAL NOTES

- NOTE ALL CONSTRUCTION NOTES ARE NOT REPRESENTED ON THIS SHEET.
- REFER TO STREET LIGHT PLANS TRAFFIC SIGNAL DESIGN AND STREET LAMP LOCATIONS.
- REFER TO IRRIGATION AND LANDSCAPE PLANS FOR RIGHT OF WAY PLANTINGS.



CONSTRUCTION DOCUMENTS



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| REV. | |
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CRISMON ROAD IMPROVEMENT PLANS

| | |
|-----------------|--------------|
| QUEEN CREEK, AZ | |
| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | SAW |
| PROJ. | 20-160 |
| SCALE: | 1" = 20' |

PAVING PLAN & PROFILE

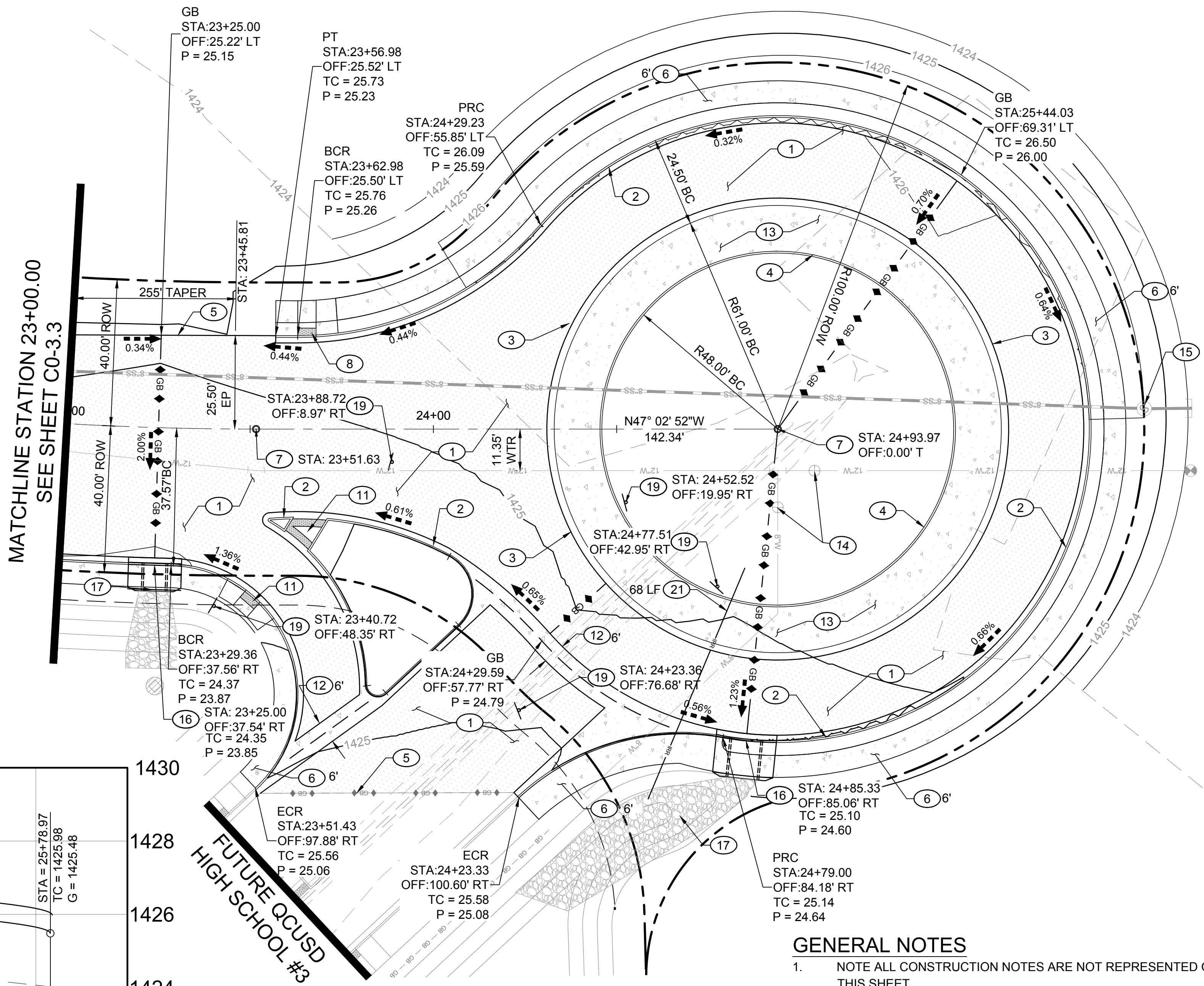
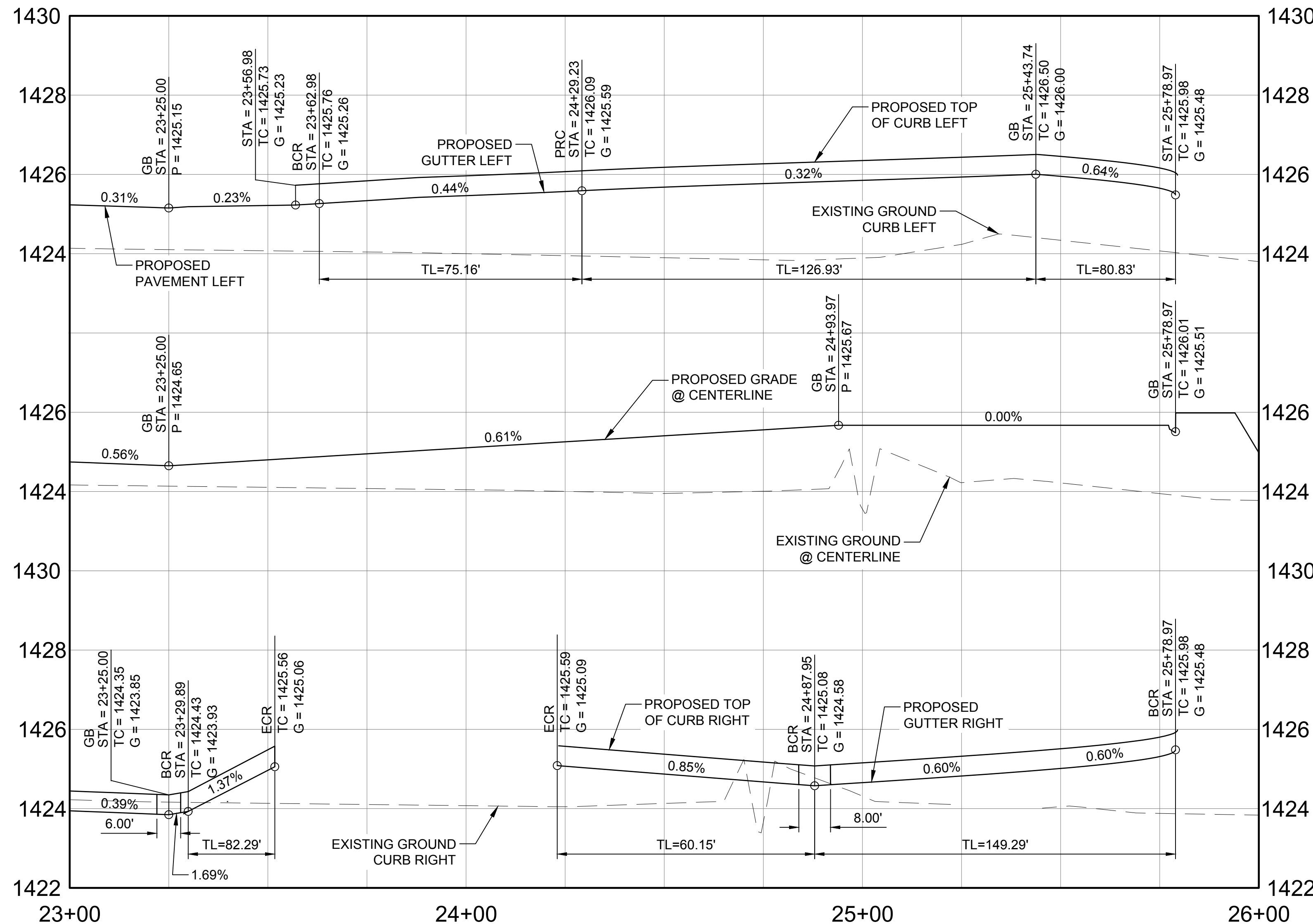
DWG. NO.

C0-3.4

PAVING KEYNOTES

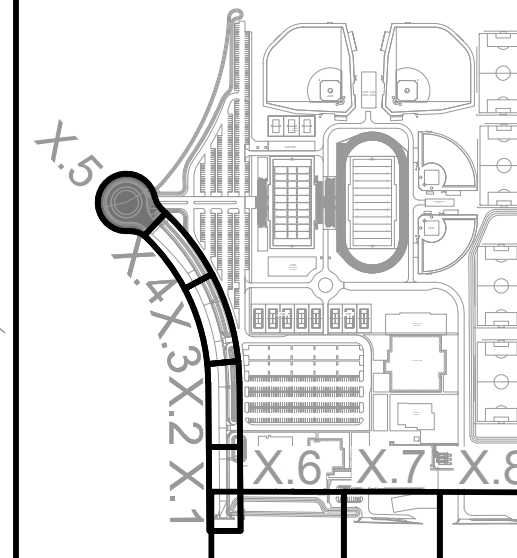
- PAVEMENT TO BE CONSTRUCTED AS 1.5" AC (A-12.5) MIX ON 3" AC (A-19) MIX ON 10" UNTREATED ABC (COMPACTED TO 100%) COMPACTED SUBGRADE PER MAG SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS. SEE PAVEMENT SECTION PER DETAIL 2 ON SHEET C0-1.4.
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CRISMON ROAD



GENERAL NOTES

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CONSTRUCTION DOCUMENTS



REV.

CRISMON ROAD IMPROVEMENT PLANS

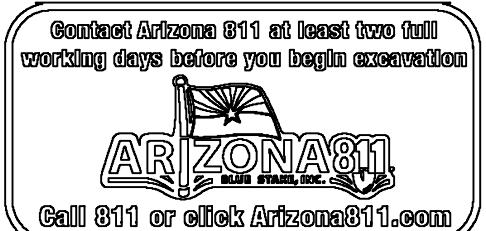
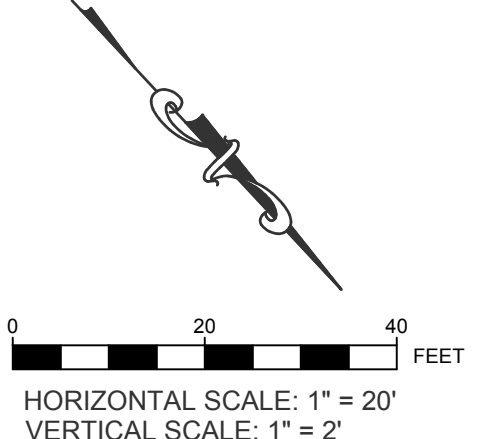
QUEEN CREEK, AZ

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| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | SAW |
| PROJ. | 20-160 |
| SCALE: | 1" = 20' |

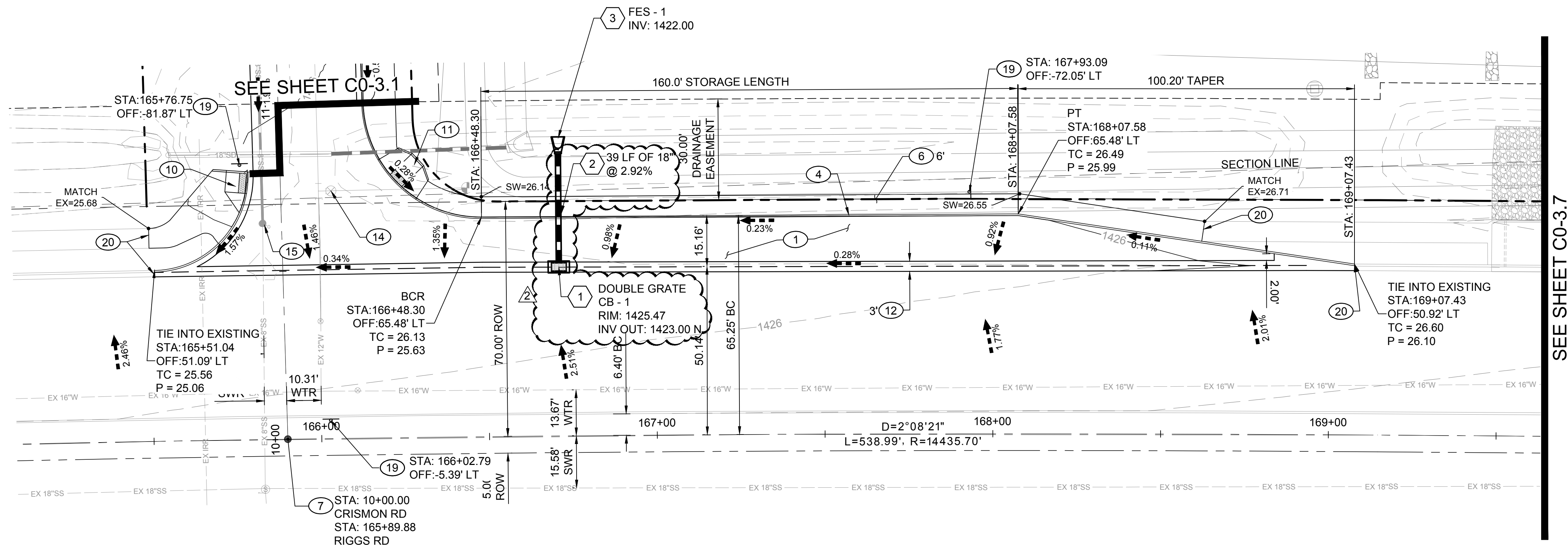
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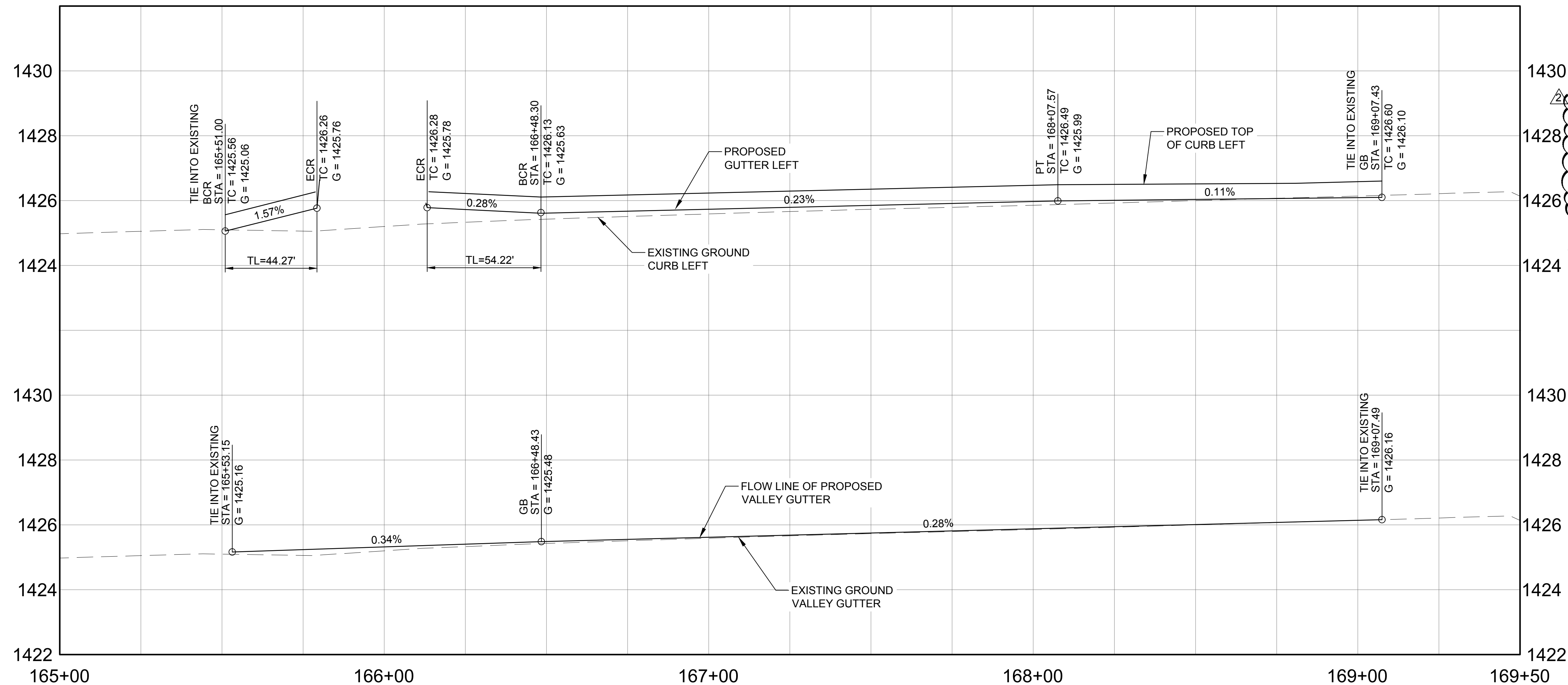
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RIGGS ROAD



PAVING KEYNOTES

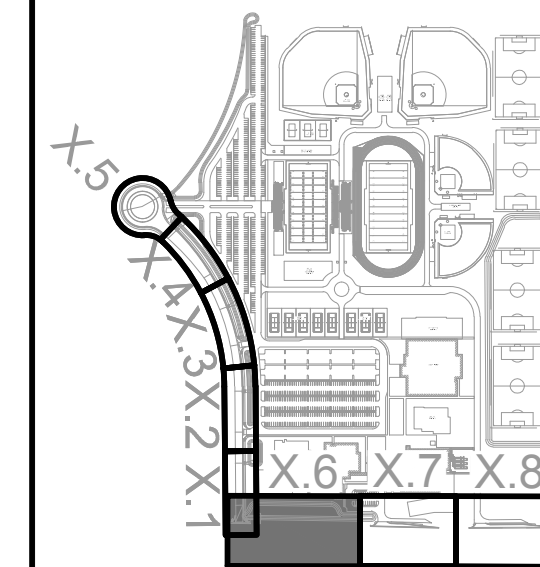
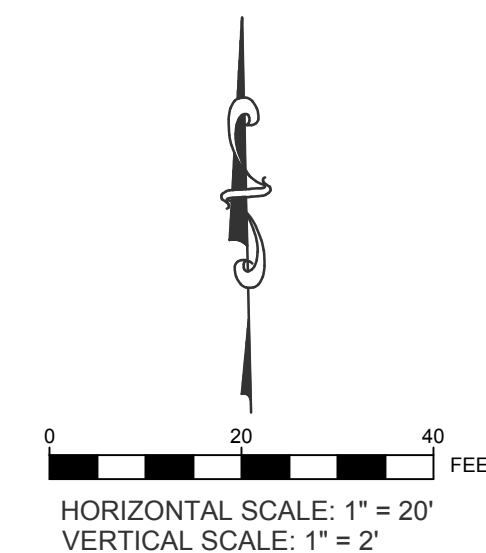
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- CONSTRUCT SIDEWALK RAMP PER DETAIL 3 ON SHEET C0-1.4.

STORM DRAIN KEYNOTES

- INSTALL DOUBLE GRATE CATCH BASIN IN VALLEY GUTTER, PER MAG STD. DTL. 537 TYPE "G".
- CONSTRUCT RGRCP CLASS IV STORM DRAIN PIPE, SIZE AND SLOPE PER PLAN.
- INSTALL HEADWALL PER MAG STD. DTL. 501-1, SIZE AND INVERT PER PLAN.

GENERAL NOTES

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- (22) CONSTRUCT SIDEWALK RAMP PER DETAIL 3 ON SHEET C0-1.4.

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QUEEN CREEK, AZ

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|-----------|--------------|
| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | SAW |
| PROJ. | 20-160 |
| SCALE: | 1" = 20' |

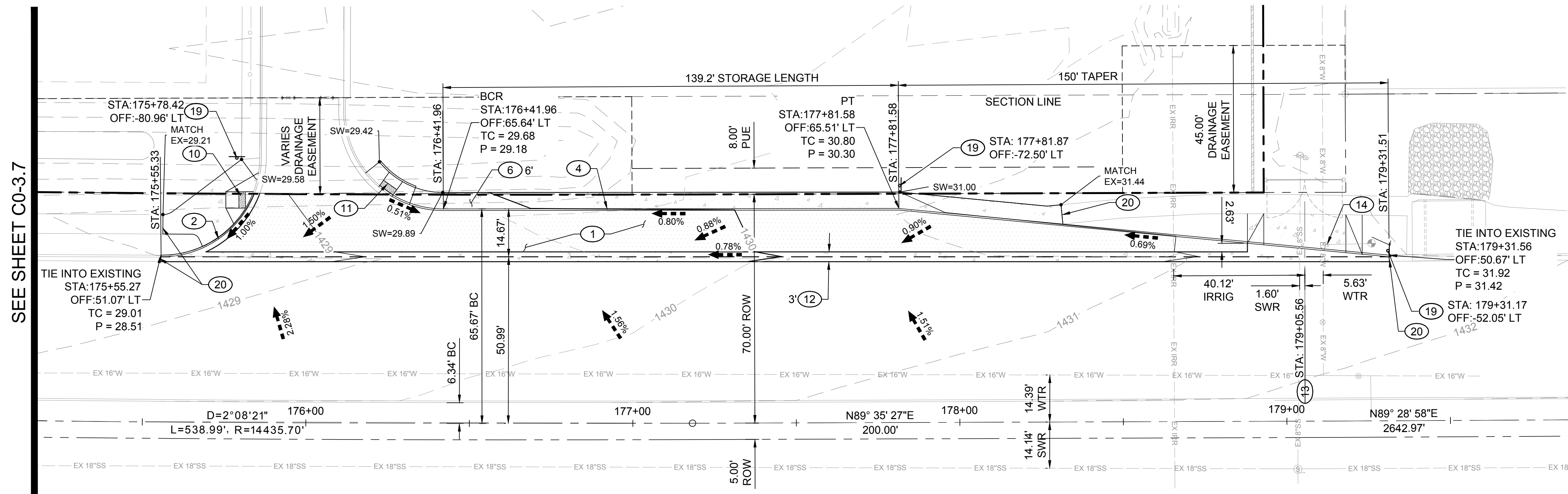
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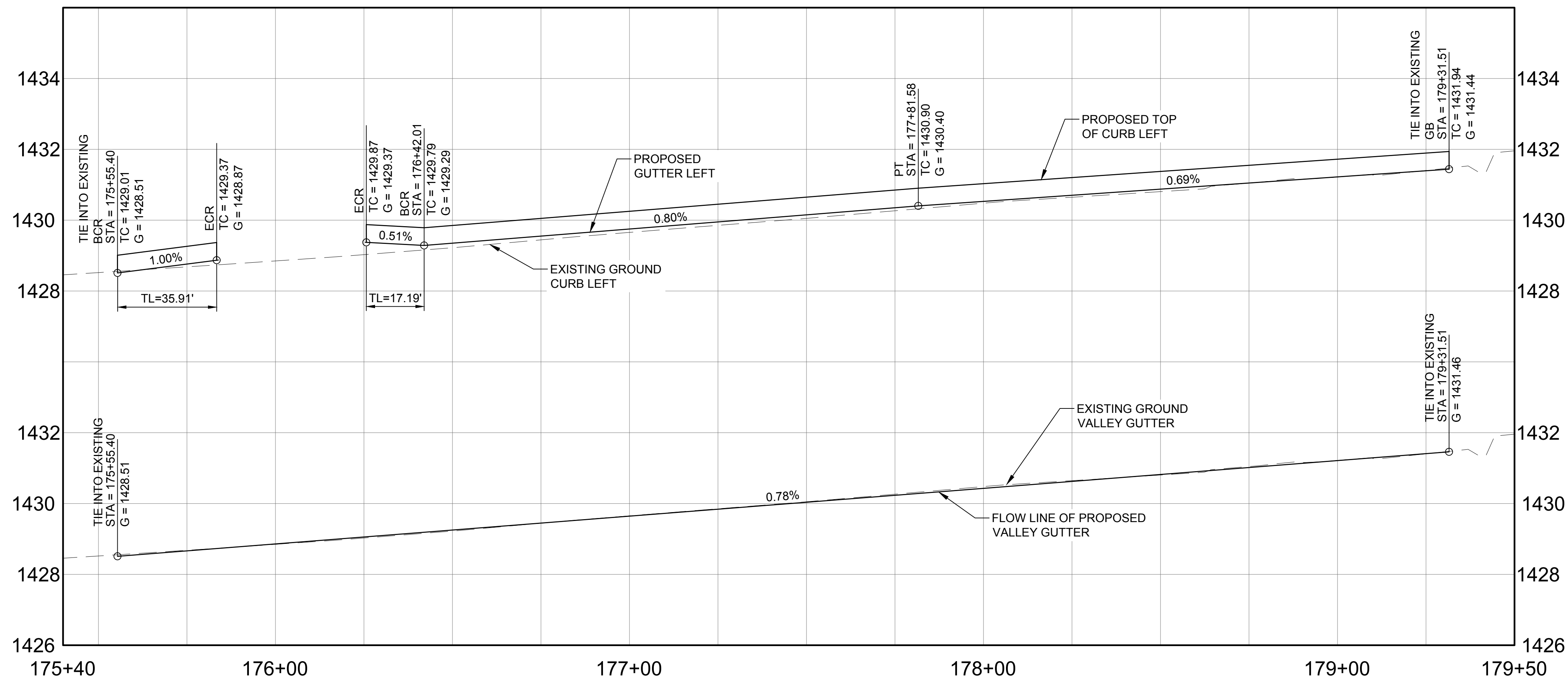
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VERTICAL SCALE: 1" = 2'





RIGGS ROAD

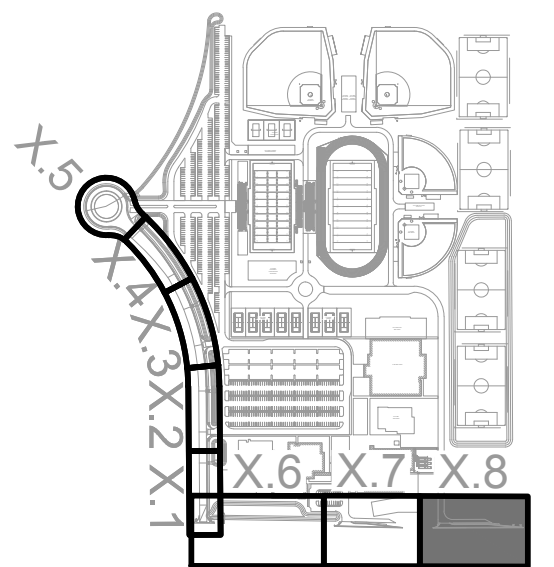


PAVING KEYNOTES

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GENERAL NOTES

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CONSTRUCTION
DOCUMENTS



REV ✓

CRISMON ROAD IMPROVEMENT PLANS

QUEEN CREEK, AZ

DESIGNED: JLP

DATE: OCT 29, 2021

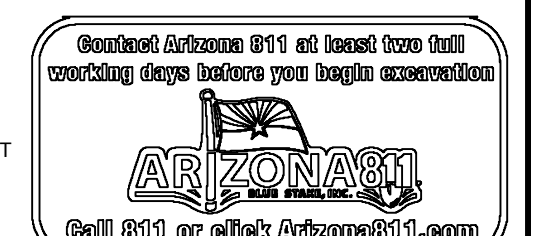
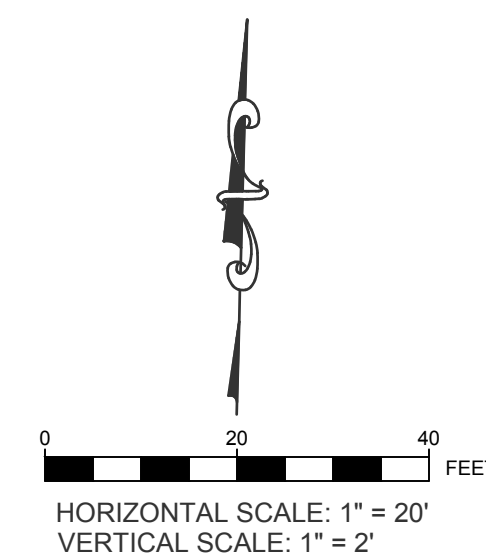
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| PROJ. | 20-100 |
| SCALE: | 1" = 20' |

PAVING PLAN
& PROFILE

DWG. NO.

C0-3.8



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QUEEN CREEK SIGNING PLAN GENERAL NOTES:

1. THE TOWN TRAFFIC ENGINEER SHALL BE NOTIFIED AT 480-358-3132 AT LEAST FIVE BUSINESS DAYS PRIOR TO BEGINNING ANY SIGNING WORK ASSOCIATED WITH THESE PLANS.
2. THE TOWN TRAFFIC ENGINEER MAY REQUIRE THE CONTRACTOR TO ADJUST SIGNING LOCATIONS, OFF-SETS AND TYPES OF SIGNS AT THE TIME OF INSTALLATION.
3. ALL SIGNING MATERIALS AND INSTALLATION SHALL CONFORM TO TOWN REQUIREMENTS, THE ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST ADOT APPROVED EDITION) AND DIRECTION FROM THE TOWN TRAFFIC ENGINEER AT TIME OF INSTALLATION.
4. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN TRAFFIC ENGINEERING DIVISION PRIOR TO ORDERING ANY MATERIALS TO OBTAIN THE LATEST SIGNING REQUIREMENTS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEERING DIVISION AT 480-358-3132 UPON COMPLETION OF ALL SIGNING WORK TO SCHEDULE A FINAL INSPECTION. THE CONTRACTOR SHALL SUPPLY ALL REQUIRED WARRANTY DOCUMENTS TO THE TOWN TRAFFIC ENGINEERING DIVISION PRIOR TO FINAL JOB ACCEPTANCE.
6. ALL EXISTING SIGNS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR REINSTALLATION BY THE CONTRACTOR. ALL SIGNS PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED AND RETURNED TO THE TOWN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING EACH SIGN THAT IS REMOVED, ENSURING THAT THE SIGNS INTEGRITY IS MAINTAINED. IN THE EVENT THE SIGN IS DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REPLACEMENT.
7. ALL SIGNS AND SIGN POSTS SHALL BE INSTALLED PER ADOT STANDARD DRAWING S-3.
8. FINAL ACCEPTANCE OF ALL SIGNING SHALL BE PROVIDED BY THE TRAFFIC ENGINEERING DIVISION.

QUEEN CREEK REQUIREMENTS FOR SIGN DESIGN:

1. ALL SIGNS SHALL BE FACED ON NEW .080 ALUMINIUM BLANKS.
2. SHEETING SHALL BE ASTM TYPE XI FOR ALL PERMANENT REGULATORY, WARNING, GUIDE, INFORMATION, AND OBJECT MARKER SIGNS (INCLUDING SIGN LEGENDS AND BORDERS).
3. ALL WARNING SIGNS (YELLOW SERIES) SHALL BE MANUFACTURED WITH ASTM TYPE XI 3M FLUORESCENT YELLOW 4081 DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
4. ALL SCHOOL SIGNS SHALL BE MANUFACTURED WITH ASTM TYPE XI 3M FLUORESCENT YELLOW GREEN 4083 DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
5. SHEETING SHALL BE MANUFACTURED BY 3M CORPORATION OR AN APPROVED EQUAL WITH EQUAL OR GREATER WARRANTY PERIODS. ALL SIGNS SHALL BE MANUFACTURED USING MATCHING COMPONENTS APPROVED BY THE SHEETING MANUFACTURER.

QUEEN CREEK STREET NAME SIGNS:

1. ALL REFLECTIVE SHEETING MATERIALS SHALL BE PRESSURE SENSITIVE ASTM TYPE XI 3M WHITE 4090 DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
2. ALL TRANSPARENT ACRYLIC, PRESSURE SENSITIVE FILM SHALL BE 3M SERIES 1177 GREEN ELECTRO CUT FILM (OR 3M SERIES 1175 BLUE ELECTRO CUT FILM) OR APPROVED EQUAL.
3. SIGNS SHALL BE MANUFACTURED BY APPLYING WHITE SHEETING TO THE ENTIRE ALUMINUM BLANK, THEN A GREEN (OR BLUE AS REQUIRED) TRANSLUCENT PRESSURE SENSITIVE FILM CONTAINING THE CUT OUT STREET NAME. THIS METHOD RESULTS IN A WHITE LEGEND ON A GREEN (OR BLUE) BACKGROUND.
4. LETTERING SHALL BE CLEARVIEW 2-W FONT (UPPER/LOWER CASE).
5. 8" LETTER HEIGHTS SHALL BE USED FOR ALL INTERSECTIONS ALONG AN ARTERIAL STREET WITH 45 MPH OR HIGHER – THESE SIGNS SHALL USE A 16" HIGH BLADE AND SHALL NOT EXCEED 42" IN WIDTH WITHOUT PRIOR APPROVAL FROM THE TOWN TRAFFIC ENGINEER.
6. 6" LETTER HEIGHTS SHALL BE USED FOR ALL INTERSECTIONS ALONG AN ARTERIAL OR COLLECTOR STREET WITH 30 MPH TO 40 MPH – THESE SIGNS SHALL USE A 12" HIGH BLADE AND SHALL NOT EXCEED 42" IN WIDTH WITHOUT PRIOR APPROVAL FROM THE TOWN TRAFFIC ENGINEER.
7. 4" LETTER HEIGHTS SHALL BE USED FOR ALL INTERSECTIONS ALONG RESIDENTIAL STREETS WITH 25 MPH OR LESS – THESE SIGNS SHALL USE AN 8" HIGH BLADE AND SHALL NOT EXCEED 42" IN WIDTH WITHOUT PRIOR APPROVAL FROM THE TOWN TRAFFIC ENGINEER.

QUEEN CREEK STREET NAME SIGNS:

NO OUTLET/DEAD END:

1. ALL REFLECTIVE SHEETING MATERIALS SHALL BE PRESSURE SENSITIVE ASTM TYPE XI SERIES 4090 WHITE AND SERIES 4091 YELLOW DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
2. ALL ACRYLIC, PRESSURE SENSITIVE FILM SHALL BE 3M SERIES 1177 GREEN ELECTRO CUT FILM (OR 3M SERIES 1175 BLUE ELECTRO CUT FILM) AND 3M 1178 BLACK EC FILM OR APPROVED EQUAL.
3. THESE SIGNS ARE CONSTRUCTED BY APPLYING WHITE SHEETING TO THE UPPER HALF OF THE SIGN BLANK AND YELLOW SHEETING TO THE LOWER HALF OF THE SIGN BLANK. ON TOP OF THE WHITESHEETING, A GREEN (OR BLUE) TRANSLUCENT PRESSURE SENSITIVE FILM CONTAINING THE CUT OUT STREET NAME IS APPLIED. ON TOP OF THE YELLOW SHEETING, THE BLACK "DEAD END" OR "NO OUTLET" AND BLACK ARROW ARE APPLIED.
4. LETTERING FOR THE STREET NAME SHALL BE CLEARVIEW 2-W FONT (UPPER/LOWER CASE) EITHER 4", 6", OR 8" LETTERING HEIGHT DEPENDING UPON THE LOCATION.
5. LETTERING FOR THE "DEAD END" OR "NO OUTLET" SHALL BE HIGHWAY GOTHIC SERIES C FONT.
6. SIGN HEIGHTS SHALL BE 16" OR 24" AND SHALL NOT EXCEED 42" IN WIDTH WITHOUT PRIOR APPROVAL FROM THE TOWN TRAFFIC ENGINEER.

NOTE : THE CONTRACTOR MAY BE REQUIRED TO SUBMIT SIGNING PROOFS TO THE TOWN TRAFFIC ENGINEER FOR APPROVAL PRIOR TO MANUFACTURING.

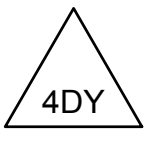
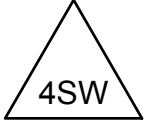

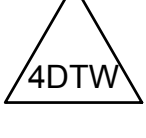
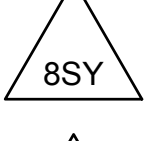
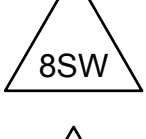
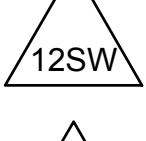
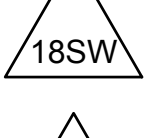
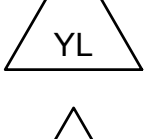
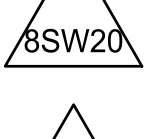
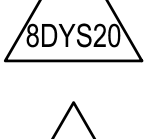
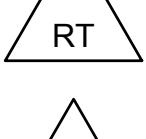
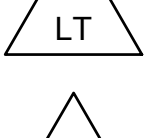
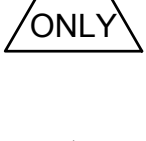
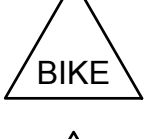
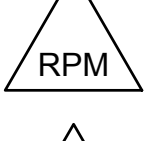
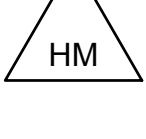
WARRANTY DOCUMENTS
THE MANUFACTURER OF THE SIGNING SHALL PROVIDE WARRANTY DOCUMENTS COVERING MATERIALS AND MANUFACTURING DEFECTS UP TO 10 YEARS. THESE DOCUMENTS SHALL BE ADDRESSED TO THE TOWN OF QUEEN CREEK AND SHALL PROVIDE THE NAME OF THE SHEETING MANUFACTURER, TYPE OF SHEETING (BRAND AND TYPE), TYPE OF OVERLAY FILM (BRAND, TYPE), NAME AND CONTACT INFORMATION OF THE COMPANY RESPONSIBLE PARTY MANUFACTURING THE SIGNS THAT SHALL BE RESPONSIBLE FOR ANY WARRANTY CLAIMS.

QUEEN CREEK PAVEMENT

MARKING PLAN GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN TRAFFIC ENGINEERING DIVISION AT 480-358-3132 FOR AN INSPECTION PRIOR TO THE APPLICATION OF ANY PAINT.
2. AFTER MEETING WITH THE TOWN TRAFFIC ENGINEER, THE CONTRACTOR SHALL SPOT MARK THE ENTIRE PROJECT AND HAVE THE LAYOUT APPROVED BY THE TOWN TRAFFIC ENGINEER PRIOR TO THE APPLICATION OF ANY PAINT. ONCE ALL PAVEMENT MARKINGS HAVE BEEN INSTALLED, THE CONTRACTOR SHALL NOTIFY THE TOWN TRAFFIC ENGINEER FOR A FINAL INSPECTION. AT COMPLETION OF THE FINAL INSPECTION, THE CONTRACTOR SHALL SUPPLY ALL REQUIRED WARRANTY DOCUMENTS TO THE TOWN TRAFFIC ENGINEER PRIOR TO FINAL JOB ACCEPTANCE.
3. THE TOWN TRAFFIC ENGINEER MAY REQUIRE THE CONTRACTOR TO ADJUST PAVEMENT MARKING LOCATIONS, OFF-SETS AND TYPES OF MARKINGS PRIOR TO INSTALLATION.
4. ANY PAVEMENT MARKINGS APPLIED PRIOR TO INSPECTION AND APPROVAL BY THE TOWN TRAFFIC ENGINEERING DIVISION SHALL BE OBLITERATED, SEALED AND RESTRIPE AT THE CONTRACTOR'S EXPENSE.
5. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE OBLITERATED BY MEANS OF WATER BLASTING TO BE COMPLETED BY THE CONTRACTOR.
6. A SEALANT APPROVED BY THE TOWN SHALL BE APPLIED BY THE CONTRACTOR TO ALL AREAS OF PAVEMENT MARKING OBLITERATION.
7. ALL PAVEMENT MARKING MATERIALS AND INSTALLATION SHALL CONFORM TO TOWN REQUIREMENTS, THE ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST ADOT APPROVED EDITION), AND DIRECTION FROM THE TOWN TRAFFIC ENGINEER AT TIME OF INSTALLATION.
8. PAVEMENT MARKINGS SHALL REQUIRE TWO (2) SEPARATE APPLICATIONS. THE INITIAL APPLICATION SHALL BE ENTIRELY IN PAINT TO INCLUDE ALL LANE LINES, HOLDING BARS, CROSS WALKS, AND STOP BARS. ALL LEGENDS SHALL BE APPLIED WITH AN APPROVED TAPE PRODUCT AT THIS TIME. RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INSTALLED WITH THE INITIAL PAINT INSTALLATION. THE CONTRACTOR SHALL RETURN 30-45 DAYS FOLLOWING THE INITIAL PAINT INSTALLATION AND RESTRIPE THE ENTIRE PROJECT IN THERMOPLASTIC OR AS DIRECTED BY THE TOWN TRAFFIC ENGINEER.
9. ALL PERMANENT PAVEMENT MARKING MATERIALS ON MAJOR ARTERIALS SHALL BE EXTRUDED THERMOPLASTIC. ALL OTHER ROADWAYS SHALL REQUIRE SPRAY THERMOPLASTIC FOR PERMANENT PAVEMENT MARKINGS, UNLESS OTHERWISE SPECIFIED BY THE TOWN TRAFFIC ENGINEER.
10. ALL PAVEMENT MARKING SYMBOLS AND LEGENDS SHALL BE 3M SERIES 380 TAPE OR APPROVED EQUIVALENT. THE TOWN TRAFFIC ENGINEER HAS THE RIGHT TO MODIFY THE PAVEMENT MARKING MATERIAL TO 3M SERIES 270 TAPE OR AN APPROVED EQUIVALENT.
11. ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED WITH CRAFCO PAVEMENT REFLECTOR ADHESIVE, OR AN APPROVED EQUIVALENT.
12. ALL MEDIAN ENDS SHALL BE PAINTED PER MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION STANDARD DETAILS 4-15 AND 4-16.

LEGEND AND QUANTITIES

| | | | |
|---|---|---|----------|
|  | | 4" SOLID DOUBLE YELLOW LINE | 1,718 LF |
|  | | 4" SOLID WHITE LINE | 2,391 LF |
|  | | 4" SOLID YELLOW LINE | 408 LF |
|  | | 4" DASHED WHITE LINE W/ 2' LINE SEGMENT & A 6" GAP | 1,232 LF |
|  | | 8" SOLID YELLOW LINE | 128 LF |
|  | | 8" SOLID WHITE LINE | 324 LF |
|  | | 12" SOLID WHITE LINE | 708 LF |
|  | | 18" SOLID WHITE LINE | 134 LF |
|  | | 12"x18" YIELD LINE | 29 LF |
|  | | 8" SOLID WHITE LINE W/ TYPE "D" RPM'S @ 20' SPACING | 151 LF |
|  | | 8" SOLID DOUBLE YELLOW LINE W/ TYPE "D" RPM'S @ 20' SPACING | 301 LF |
|  | | PAVEMENT PARKING SYMBOL PER ADOT STD. DWG M-10 AND M-11 | 7 EA |
|  | | PAVEMENT PARKING SYMBOL PER ADOT STD. DWG M-10 AND M-11 | 1 EA |
|  | | PAVEMENT "ONLY" SYMBOL PER ADOT STD. DWG | 2 EA |
|  | | BIKE LANE SYMBOL AND ARROW PER TOQC STD. DTL. R-131 | 9 EA |
|  | | TYPE H RAISED PAVEMENT MARKER, YELLOW, ONE-WAY REFLECTIVE | 7 EA |
|  | | TYPE 1 HAZARD MARKER PER MAG STD. DTL. 141. | 13 EA |



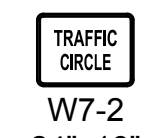
R1-1
36"x36"

6 EA



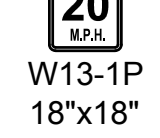
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30"x30"

1 EA



W7-2
24"x18"

1 EA



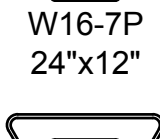
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1 EA



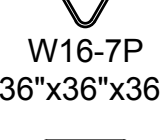
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1 EA



W16-7P
24"x12"

1 EA



W16-7P
36"x36"x36"

2 EA



R6-5P
30"x30"

2 EA



R6-1R
36"x12"

2 EA



R6-4
30"x24"

2 EA



R3-17
30"x24"

3 EA



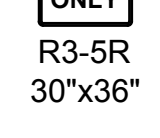
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1 EA



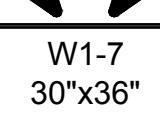
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2 EA



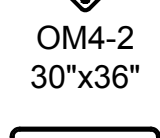
R3-5R
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6 EA



W1-7
30"x36"

1 EA



OM4-2
30"x36"

20 EA



Street Name
8"x36"

4 EA



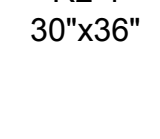
R3-5F
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4 EA



R3-17
30"x24"

1 EA



R2-1
30"x36"

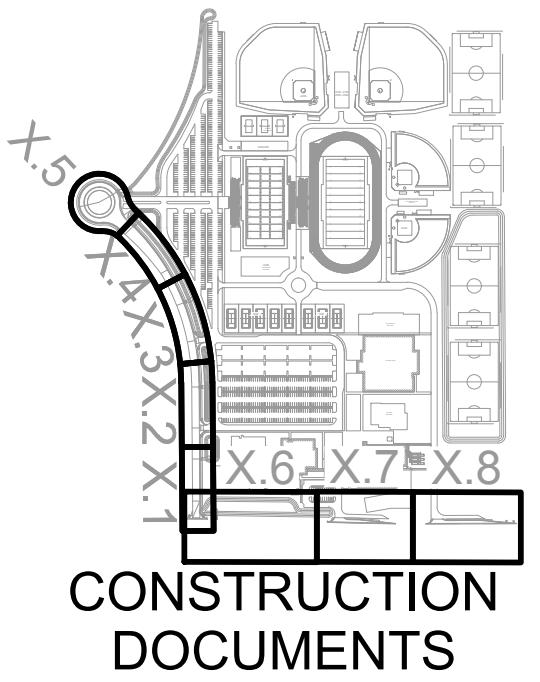
1 EA






SPORTS + ENGINEERING

7349 N. VIA PASEO DEL SUR
SUITE 515-324
SCOTTSDALE, ARIZONA 85258
PH 602.635.4226





REV.

CRISMON ROAD
IMPROVEMENT
PLANS

QUEEN CREEK, AZ

DESIGNED: JLP

DATE: OCT 29, 2021

DRAWN: TML

PROJ. 20-160

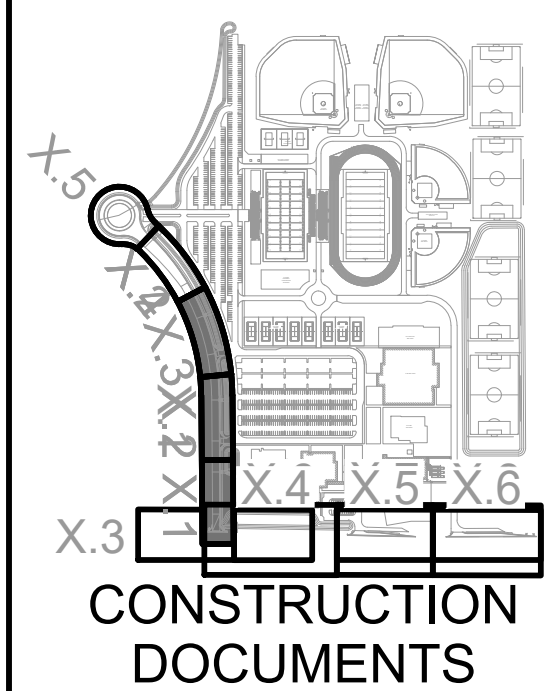
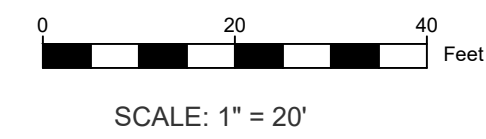
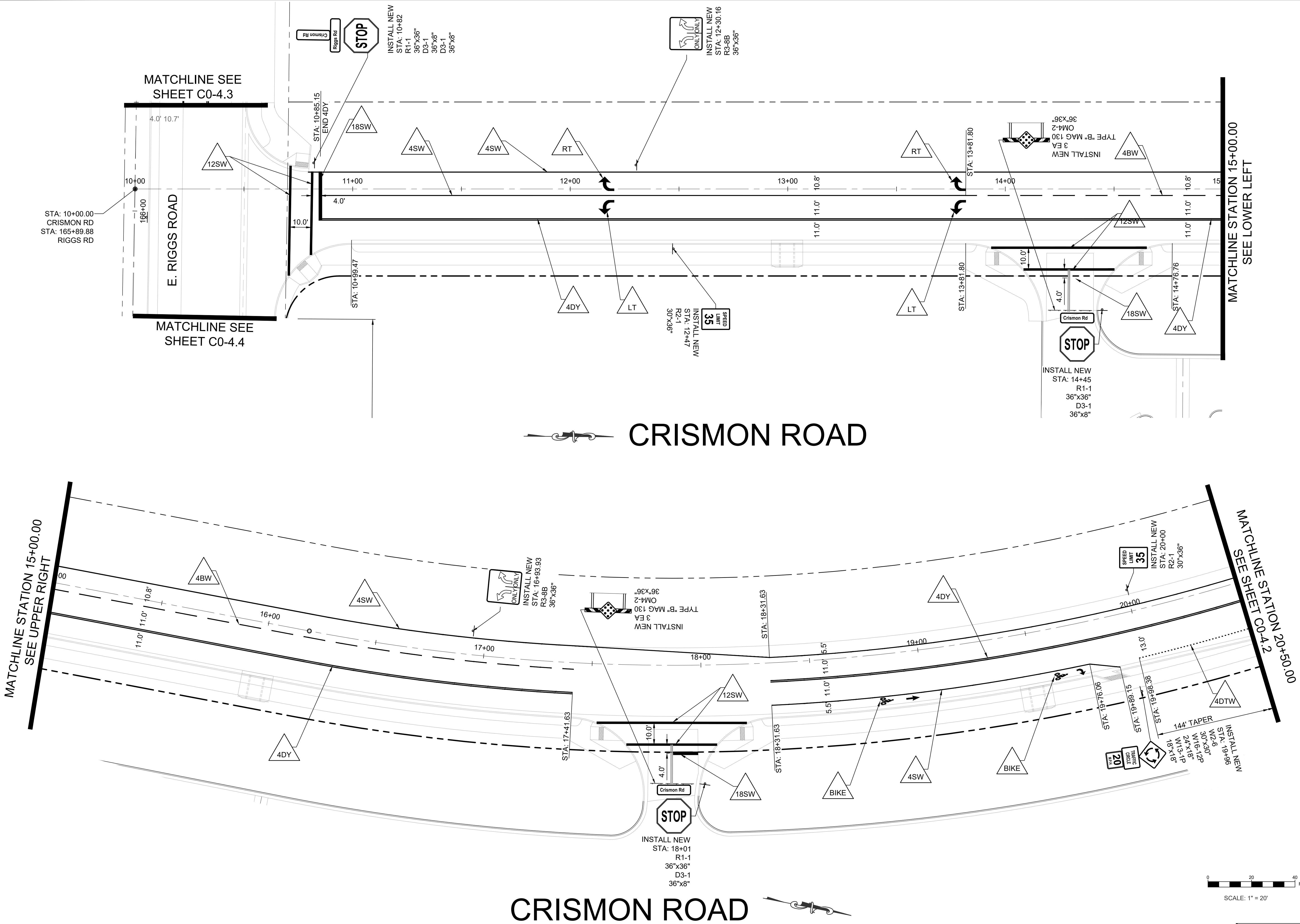
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SIGNING & STRIPING
NOTES - QUANTITIES

DWG. NO.

C0-4.0

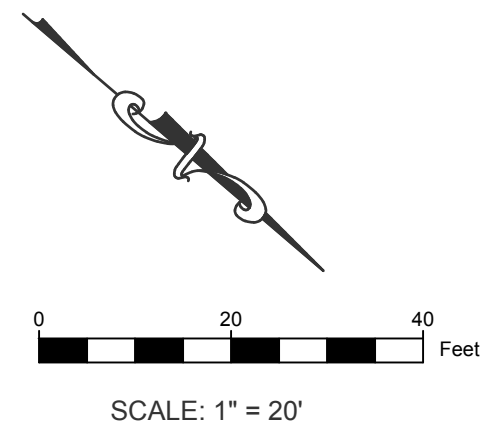
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| REV. | | |
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| 1 | SEWER TIE-IN | 12/21/21 |
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| CRISMON ROAD IMPROVEMENT PLANS | | |
|--------------------------------------|--------------|--|
| QUEEN CREEK, AZ | | |
| DESIGNED: | JLP | |
| DATE: | OCT 29, 2021 | |
| DRAWN: | TML | |
| PROJ. | 20-160 | |
| SCALE: | 1" = 20' | |

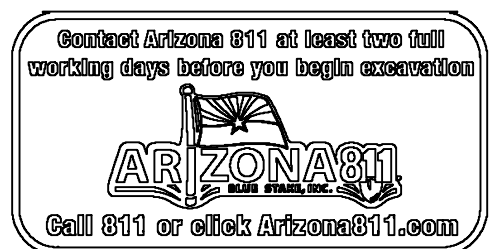
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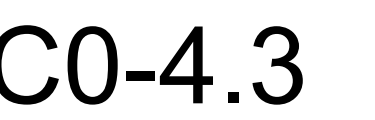
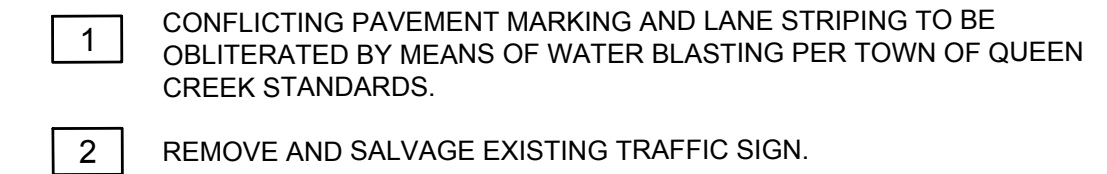


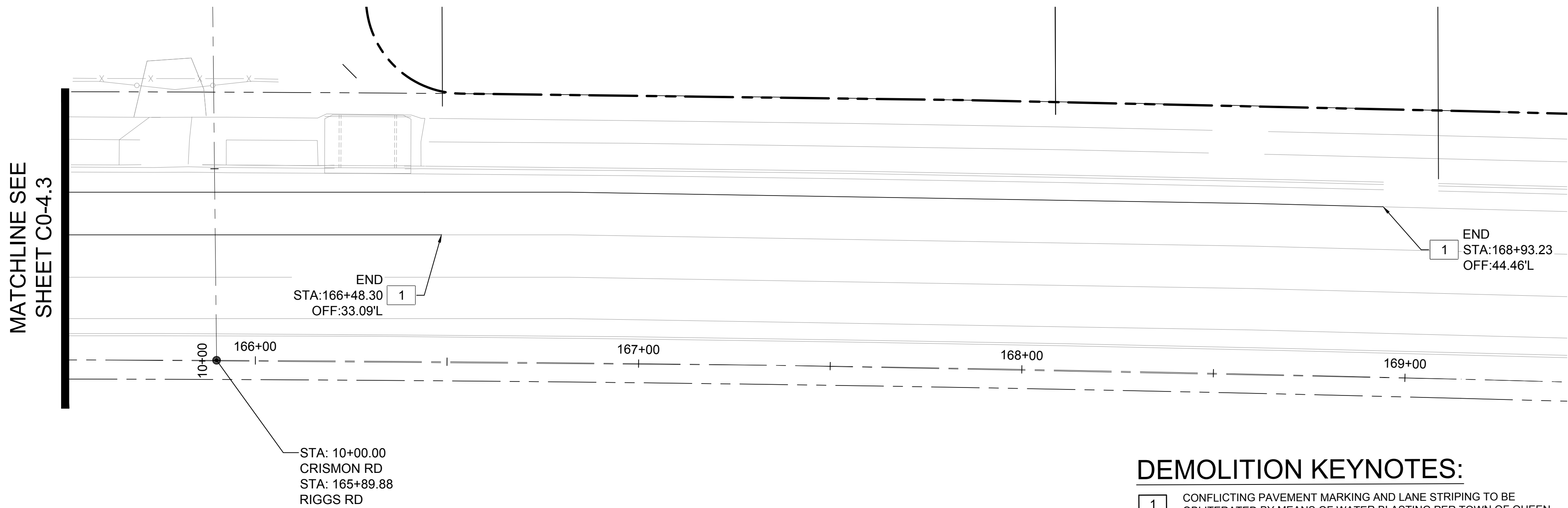
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| QUEEN CREEK, AZ | |
| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | TML |
| PROJ. | 20-160 |
| SCALE: | 1" = 20' |

DWG. NO.

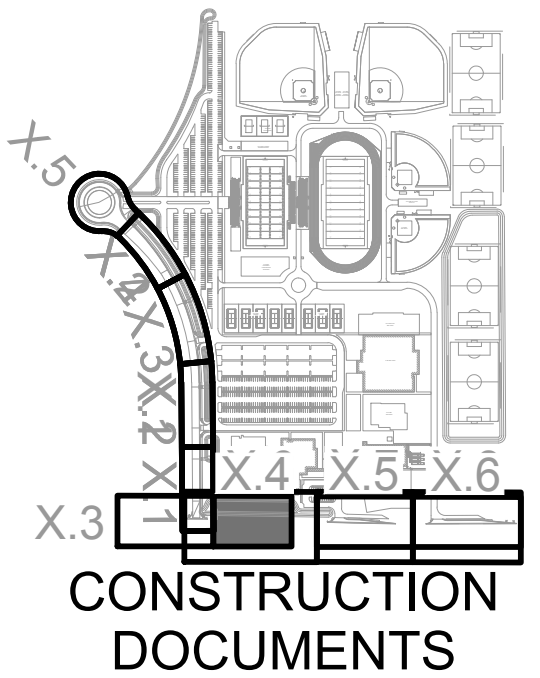
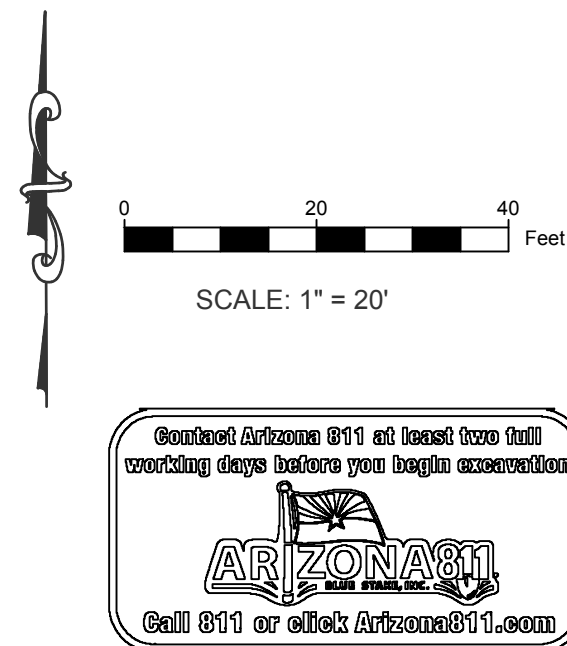
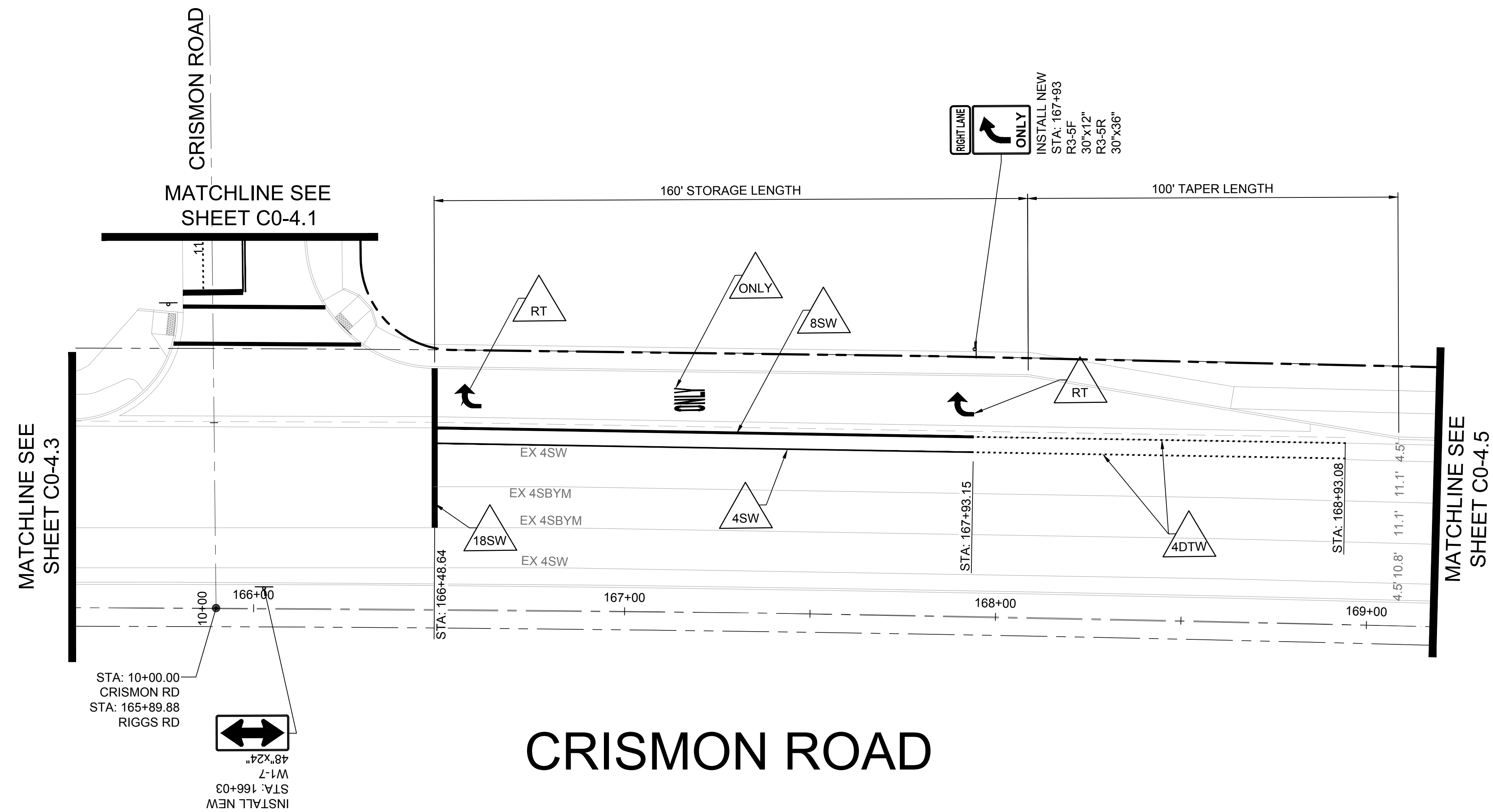
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RIGGS ROAD - LANE DEMOLITION

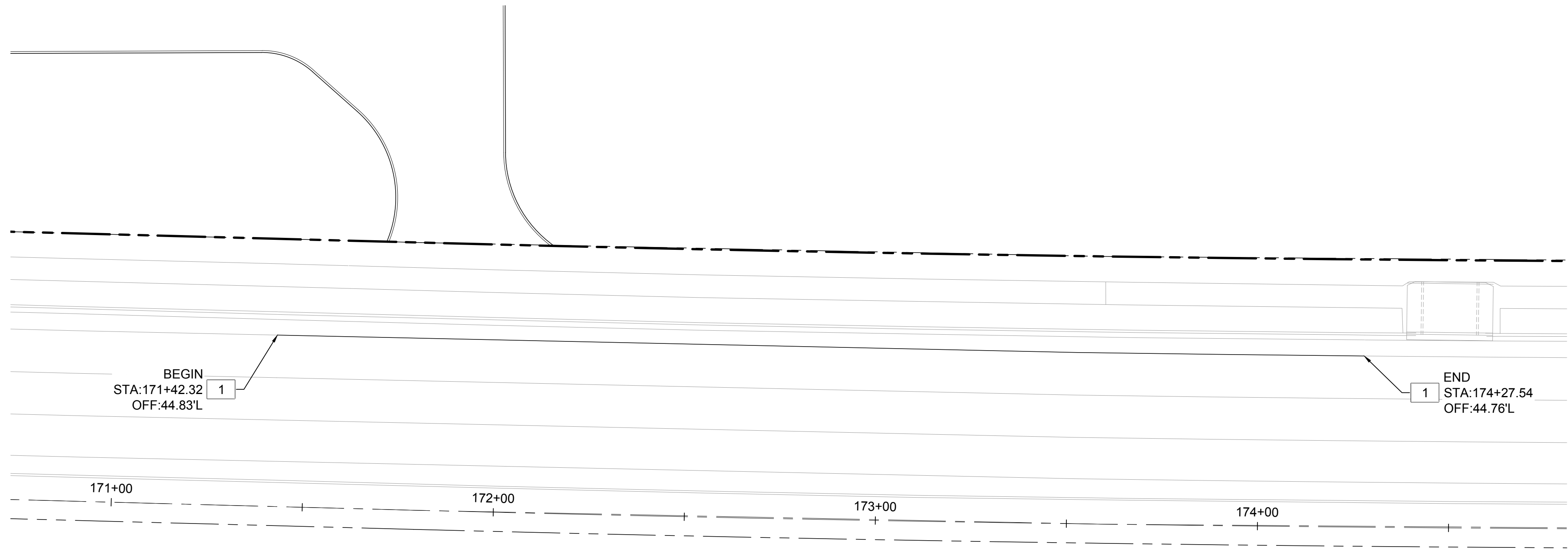


| CRISMON ROAD IMPROVEMENT PLANS | |
|--------------------------------|--------------|
| QUEEN CREEK, AZ | |
| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | TML |
| PROJ. | 20-160 |
| SCALE: | 1" = 20' |

SIGNING & STRIPING PLAN

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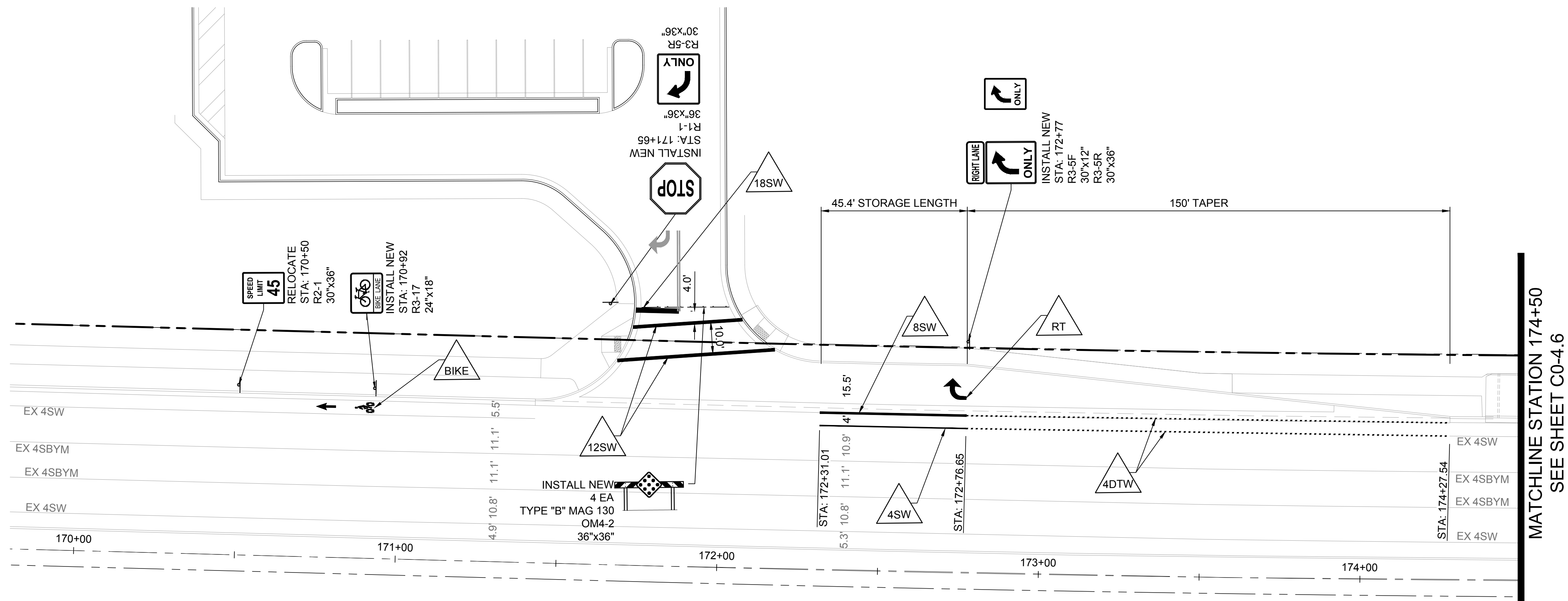
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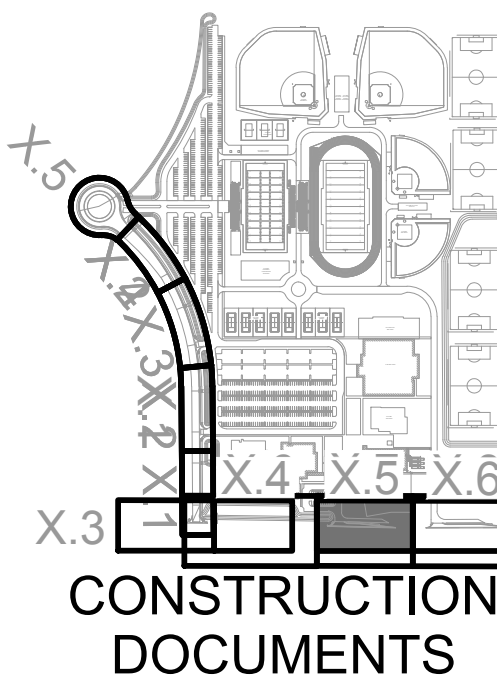
RIGGS ROAD - LANE DEMOLITION

DEMOLITION KEYNOTES:

- 1. CONFLICTING PAVEMENT MARKING AND LANE STRIPING TO BE OBLITERATED BY MEANS OF WATER BLASTING PER TOWN OF QUEEN CREEK STANDARDS.
- 2. REMOVE AND SALVAGE EXISTING TRAFFIC SIGN.



RIGGS ROAD



REV. _____

CRISMON ROAD IMPROVEMENT PLANS

QUEEN CREEK, AZ

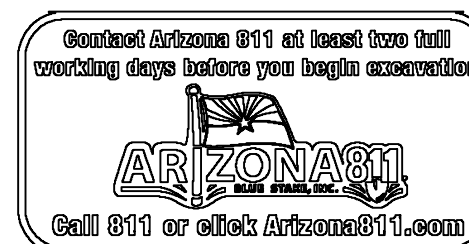
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| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
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| SCALE: | ##### |

SIGNING & STRIPING PLAN

DWG. NO.

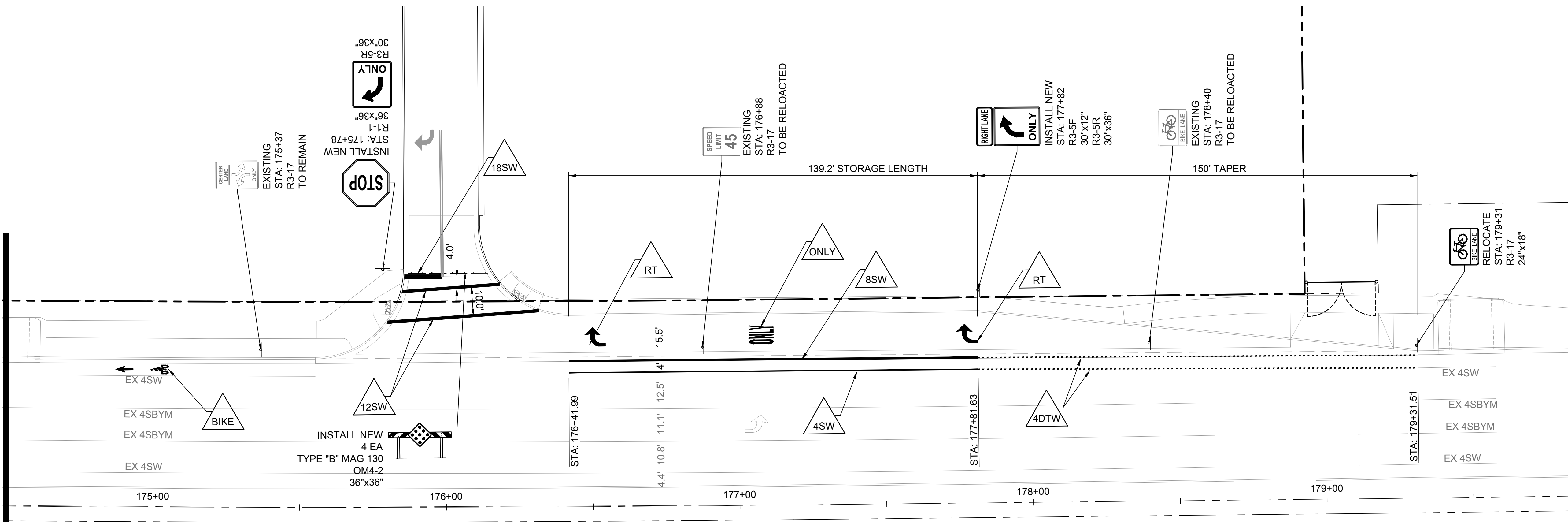
C0-4.5

0 20 40 Feet
SCALE: 1" = 20'



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MATCHLINE STATION 174+50
SEE SHEET C0-4.5

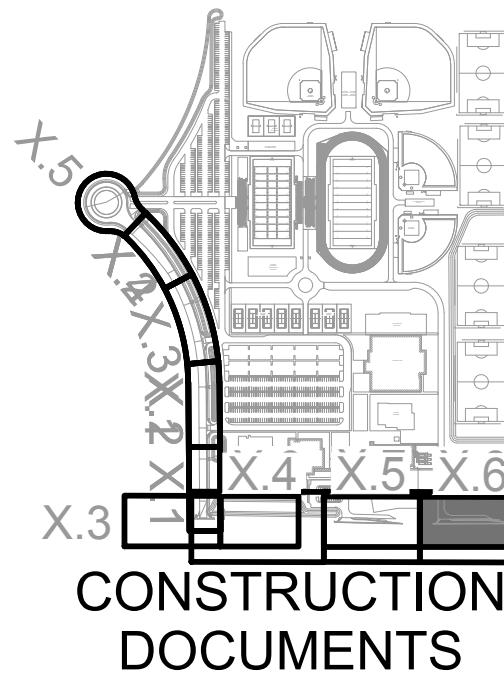
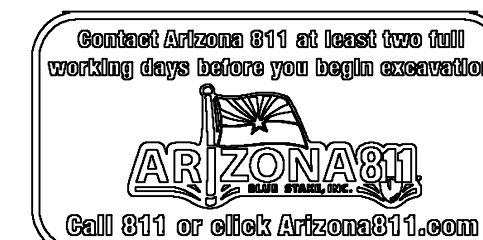
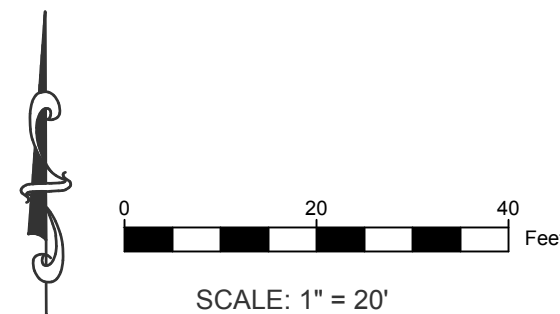


RIGGS ROAD - LANE DEMOLITION

DEMOLITION KEYNOTES:

- 1 CONFLICTING PAVEMENT MARKING AND LANE STRIPING TO BE OBLITERATED BY MEANS OF WATER BLASTING PER TOWN OF QUEEN CREEK STANDARDS.
- 2 REMOVE AND SALVAGE EXISTING TRAFFIC SIGN.

RIGGS ROAD



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| REV. | |
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CRISMON ROAD IMPROVEMENT PLANS

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| DESIGNED: | JLP |
| DATE: | OCT 29, 2021 |
| DRAWN: | TML |
| PROJ. | 20-160 |
| SCALE: | 1" = 20' |

SIGNING & STRIPING PLAN

DWG. NO.
C0-4.6

QCUSD HIGH SCHOOL
STREET LIGHT PLAN

1.01 GENERAL NOTES:
THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE SPECIFICATIONS. SHOULD THERE BE A CONFLICT WITH THE SPECIFICATIONS, THIS DOCUMENT SHALL TAKE PRECEDENCE.

THE CONTRACTOR SHALL COMPLY WITH STATE AND TOWN STATUTES, AND MANUFACTURER'S RECOMMENDATIONS.

EQUIPMENT SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND THE SPECIFIC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE, ELECTRONIC PDF PACKAGE. THE SUBMITTAL SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PRODUCT SPECIFICATION, & CATALOG NUMBERS.

PRIOR TO SUBMITTING A PROPOSAL, THE BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THE CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN THE BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.

PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHOULD VERIFY DIMENSIONS AT THE SITE. IMMEDIATELY REPORT DIFFERENCES TO THE ENGINEERING MGR. AND SHOULD NOT PROCEED WITH WORK UNTIL THE ENGINEERING MGR. RENDERERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS.

1.01 GENERAL:
THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN THE TOWN RIGHT-OF-WAY.

ONE PROJECT UNDERGROUND UTILITIES (RIGHT OF WAY) PERMIT AND ONE STREETLIGHT PERMIT FOR EACH STREET LIGHT POLE SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

THE OWNER OR CONTRACTOR SHALL PROVIDE THE TOWN WITH THE SRP JOB NUMBER, SRP CONTACT NAME, AND ADDRESS THAT THE LETTER OF AUTHORIZATION SHALL REFERENCE.

1.02 WORKING / "AS BUILT" PLANS:
ACCEPTANCE OF THE COMPLETED IMPROVEMENTS WILL NOT BE GIVEN UNTIL A 4 MIL PHOTO MYLAR REPRODUCIBLE "AS BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE TOWN ENGINEER.

1.03 LIGHT POLES:
FINAL STREET LIGHT LOCATIONS SHALL BE COORDINATED WITH TOWN ENGINEERING INSPECTOR. LIGHT POLES SHALL BE INSTALLED PLUMB, BE ADJUSTED TO PROVIDE PROPER ALIGNMENT TO THE ROADWAY BEING LIGHTED AND BE PROPERLY GROUNDED WHEN THE INSTALLATION IS COMPLETED.

1.04 FOUNDATION:
THE HOLE FOR THE FOUNDATION SHALL BE AUGURED OR HAND DUG, ANY EXCEPTION SHALL BE PRE-APPROVED BY THE TOWN'S STREETLIGHT MANAGEMENT SECTION. ANCHOR BOLTS INSTALLED IN FOUNDATIONS SHALL BE PROVIDED WITH DOUBLE NUTS AND WASHERS. ANCHOR BOLTS WILL BE SET IN PLACE AND SUPPORTED BY THE USE OF A TEMPLATE (SUPPLIED BY THE CONTRACTOR) TO MAINTAIN THE TRUE BOLT CIRCLE BEFORE THE CONCRETE IS POURED.

STREETLIGHT MANAGEMENT SHALL INSPECT THE WORK BEFORE THE CONCRETE IS POURED AND MUST BE CONTACTED 48 HOURS BEFORE THE SCHEDULED POURING. THE TOP OF THE FOUNDATION SHALL BE FLUSH WITH TOP OF SIDEWALK, TROWEL FINISHED AND LEVEL. SURPLUS EXCAVATION SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.

1.05 LUMINAIRES:
LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A LAMP AND PHOTOCELL. CONTRACTOR SHALL ASSURE THAT THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT BEFORE LEAVING THE SITE. LUMINAIRES FURNISHED WITH MULTI-TAP BALLASTS SHALL BE REWIRED OR RECONNECTED TO MATCH THE VOLTAGE SUPPLIED BY THE ELECTRIC UTILITY COMPANY.

1.06 WIRING:
WIRING SHALL BE INSTALLED PER UTILITY STANDARDS.

1.07 GROUNDING:
EACH POLE SHALL HAVE A 8' X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH PULL BOX. INSTALL #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN STREET LIGHT POLE HAND HOLE.

1.08 PULL BOXES:
EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATION SHALL BE PER THE ELECTRIC UTILITY COMPANY STANDARDS.

1.09 TRENCH:
TRENCH SHALL BE INSTALLED PER THE UTILITY COMPANY PLANS AND STANDARDS. THE USE OF A COMMON ELECTRIC UTILITY COMPANY TRENCH IS PERMITTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF TRENCHING AND THE INSTALLATION OF CONDUIT.

1.10 CONDUIT:
MAINLINE CONDUIT SHALL BE PER UTILITY COMPANY STANDARDS. CONDUIT FROM PULL BOX TO POLE SHALL BE 1 INCH PVC CONDUIT OR EQUAL. CONDUIT MUST BE UL RATED AND SUITABLE FOR UNDERGROUND USE.

1.11 CONNECTIONS:
CONNECTIONS SHALL BE PER UTILITY STANDARDS.

1.12 LIGHT POLE IDENTIFICATION:
THE CONTRACTOR SHALL FURNISH AND INSTALL A NUMBER ON EACH LIGHT POLE. STREET LIGHT POLE IDENTIFICATION AND SPECIFICATIONS WILL BE PROVIDED BY THE TOWN.

1.13 RESTORATION:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING STREET LIGHT CONSTRUCTION TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH "MAG" SPECIFICATION SECTION 107.9.

1.14 PERFORMANCE TEST:
PRIOR TO ACCEPTANCE, THE DEVELOPER SHALL ENERGIZE AND OPERATE THE ENTIRE ROADWAY LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF A LUMINAIRE SHOULD FAIL, IT SHALL BE IMMEDIATELY REPLACED.

1.15 WARRANTY:
THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEERING MANAGER, AGAINST IMPERFECT WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP. THIS GUARANTEE IS TO BE IN WRITING TO THE TOWN AT THE TIME OF ISSUING FINAL ACCEPTANCE. WORK FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE TOWN.

ELECTRICAL ENGINEER

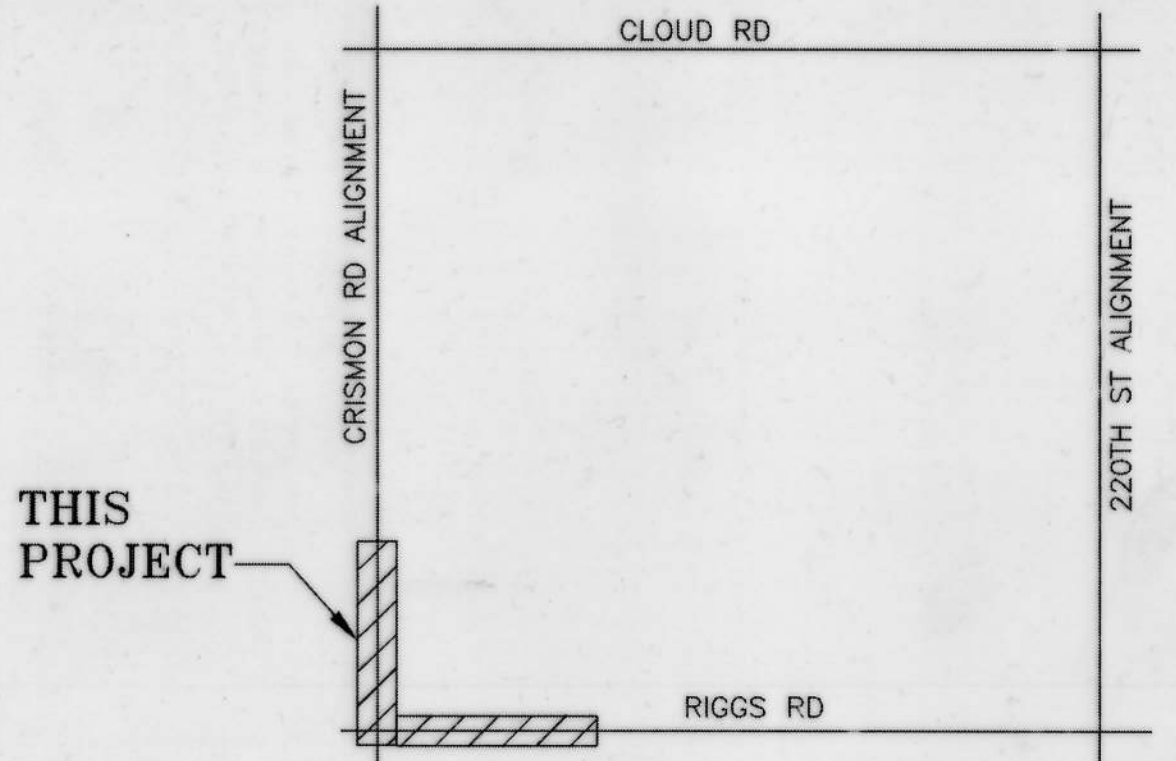
WRIGHT ENGINEERING CORPORATION
165 EAST CHILTON DRIVE
CHANDLER, AZ 85225
PHONE: (480) 497-5829
CONTACT: CLIFF TOLMAN

CIVIL ENGINEER

LLOYD CONSULTING GROUP, LLC
7349 N. VIA PASEO DEL SUR, STE. 515-324
SCOTTSDALE, ARIZONA 85258
PHONE: (480) 332-0855
CONTACT: JUSTIN PETERSON

POWER CONDUIT NOTE

TRENCH & CONDUIT RUNS FROM STREET LIGHT PULL BOX TO POINT OF ELECTRICAL SERVICE WILL BE DESIGNED BY THE POWER COMPANY, AND ARE SHOWN ON POWER COMPANY PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE PLANS FROM DEVELOPER/OWNER, AND INCLUDE THESE RUNS IN THE BID. COORDINATE THIS WORK WITH THE POWER COMPANY.



VICINITY MAP
N.T.S.



TOWN OF QUEEN CREEK
STANDARD DETAIL

STREET LIGHT
GENERAL NOTES

LT-1

QUANTITIES LIST (STREET LIGHTS)

| TOTAL | UNIT | DESCRIPTION |
|-------|------|------------------|
| 19 | EACH | 12,500 LUMEN LED |

LUMINAIRE SCHEDULE

| NOMINAL LUMENS | MANUFACTURER | CATALOG # | LAMP(S) |
|----------------|------------------|--|----------|
| 12,500 LUMENS | GE LIGHTING | ERL1-0-13-C5-30-A-DKBZ-GL-116 | 102W LED |
| | LEOTEK | GCM2-40-MV-WW-3R-DB-950-PCR7-CR-BBL-LL-AD | 121W LED |
| | SIGNIFY LIGHTING | RFM-108W48LED3K-G2-R3S-UNV-DMG-[API-253]-RCD7-BR | 106W LED |
| | COOPER | ARCH-M-PA2-90-730-U-T3-BZ-10MSP-HA-PR7-10X-U117788 | 121W LED |

TOWN OF QUEEN CREEK APPROVAL

Town Engineer
Town Traffic Engineer

1-18-2022
1-18-2022
DATE



WRIGHT ENGINEERING
PROJECT NO:
21558

DESIGN BY: BKM
DRAWN BY: BKM
CHECKED BY: CMT

WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us

PROJECT: TITLE:

QUEEN CREEK, ARIZONA
QCUSD HIGH SCHOOL
RIGGS RD & CRISMON RD
STREET LIGHT COVER SHEET

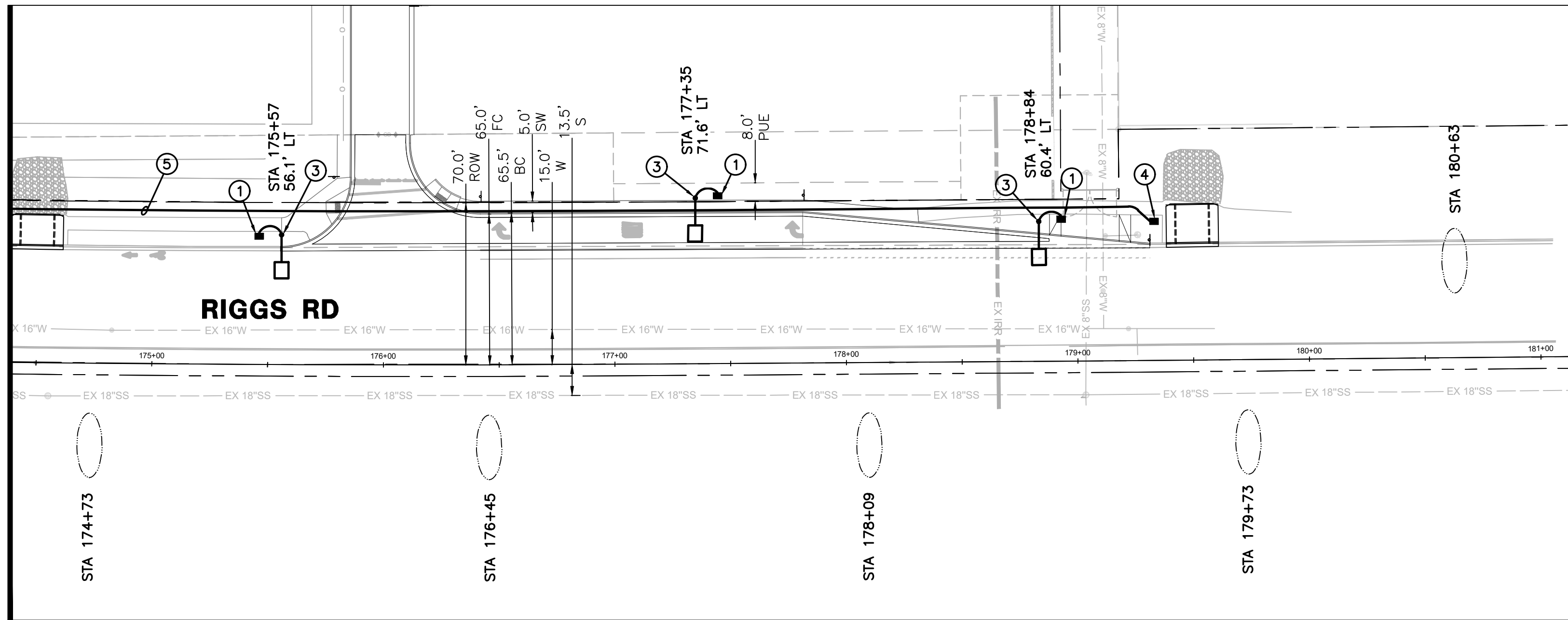
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|-----|----------|----------------------|--------------|
| 1 | OCT 2021 | 1ST SUBMITTAL | |
| 2 | DEC 2021 | 2ND SUBMITTAL | |

Professional Engineer
57155
CLIFFORD M. TOLMAN
Date Signed: 12-17-21
Expire: 3-31-23

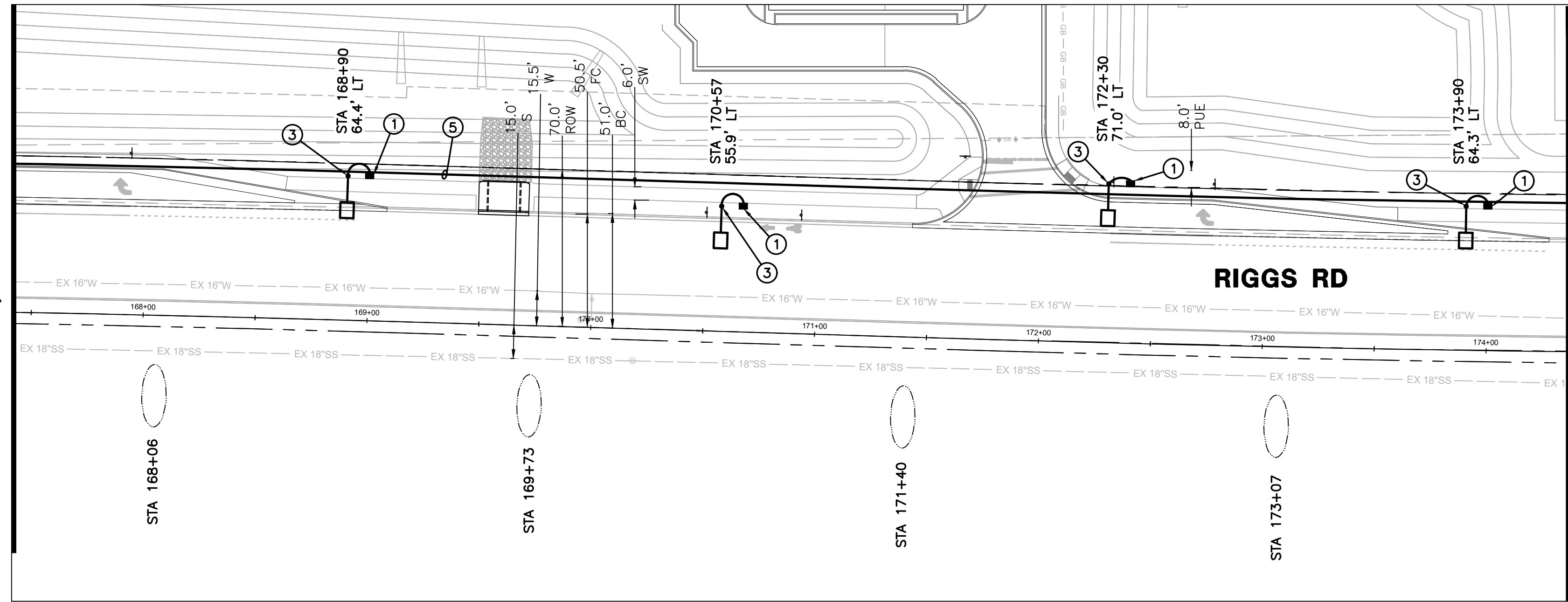
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SL1
OF 5

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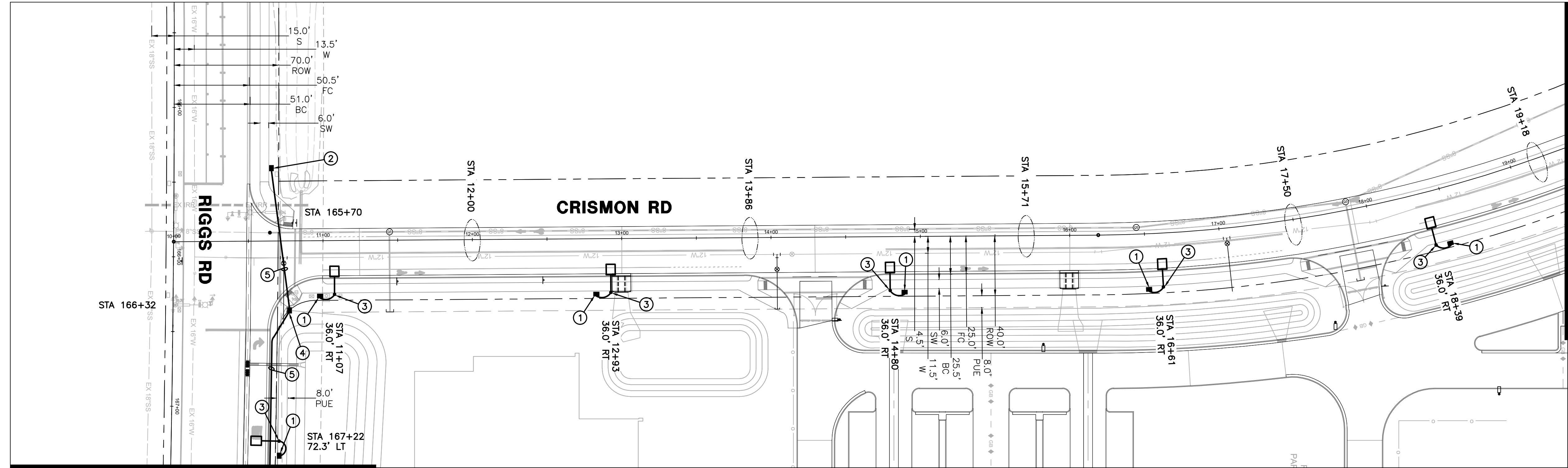
MATCHLINE 'C', SEE ABOVE RIGHT



MATCHLINE 'B', SEE ABOVE LEFT



MATCHLINE 'C', SEE BELOW LEFT



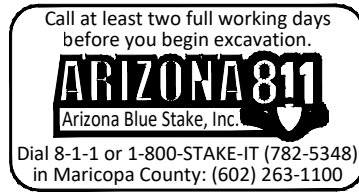
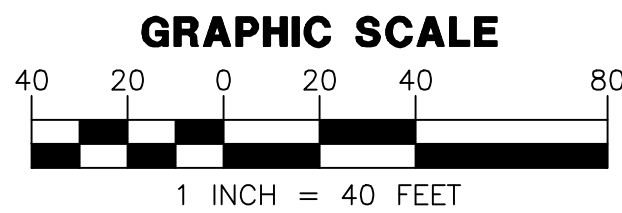
MATCHLINE 'A', SEE SL3

CONSTRUCTION NOTES

- PULL BOX PER DETAIL LT-2 ON SHEET SL4. RUN 1" CONDUIT WITH (2) #12 & #12 GROUND, & #6 BARE BOND FROM PULL BOX TO POLE. SEE DETAIL LT-3.
- #7 PULL BOX WITH EXTENSION PER DETAIL ITS-05.
- 12,500 LUMEN LED STREET LIGHT WITH A 32'-0" MOUNTING HEIGHT PER DETAIL LT-4 (SEE SHEET SL4).
- #9 PULL BOX PER DETAILS ITS-03 & ITS-04.
- ITS DUAL QUAD DUCT BANK, (8) 1.25" CONDUITS PER DETAIL ITS-06

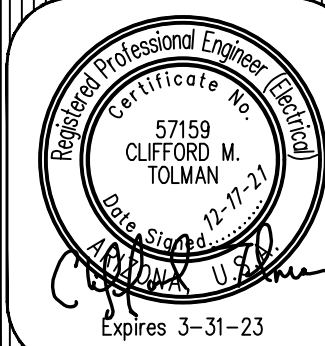
LEGEND

- 12,500 LUMEN LED STREET LIGHT, 32'-0" MTG HEIGHT
- PULL BOX
- CONDUIT RUN
- FUTURE STREET LIGHT



QUEEN CREEK, ARIZONA
QCUSD HIGH SCHOOL
RIGGS RD & CRISMON RD
STREET LIGHT PLAN

| NO. | DATE | SUBMITTALS/REVISIONS (DESCRIPTIONS) |
|-----|----------|-------------------------------------|
| 1 | OCT 2021 | 1ST SUBMITTAL |
| 2 | DEC 2021 | 2ND SUBMITTAL |

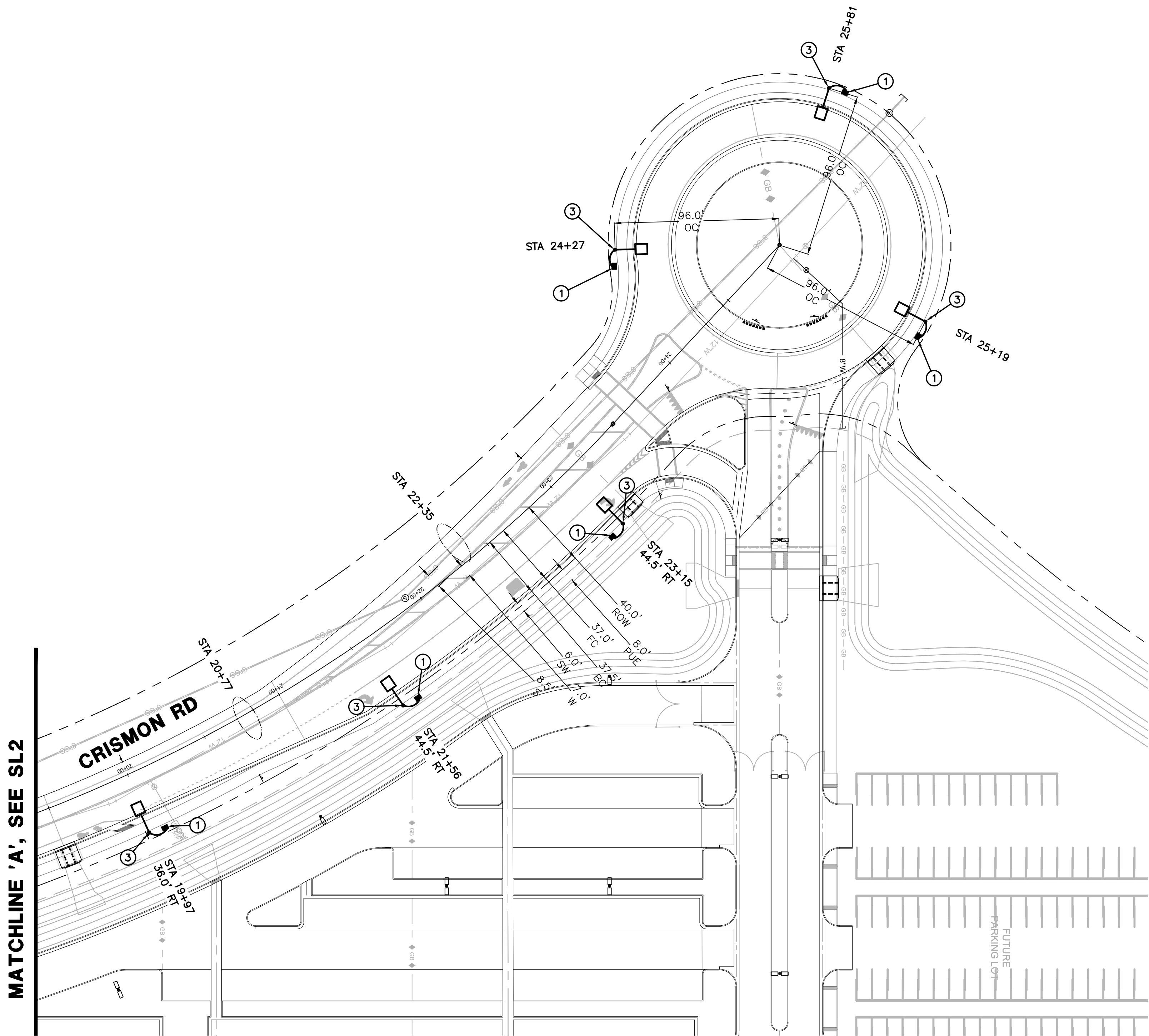


DRAWING NO:
SL2
OF 5

WRIGHT ENGINEERING
PROJECT NO:
21558
DESIGN BY: BKM
DRAWN BY: BKM
CHECKED BY: CMT



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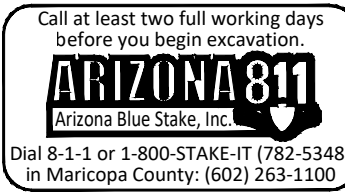
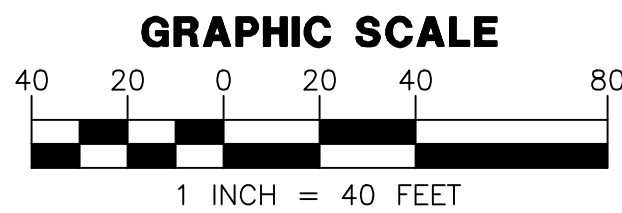


CONSTRUCTION NOTES

- 1 PULL BOX PER DETAIL LT-2 ON SHEET SL4. RUN 1" CONDUIT WITH (2) #12 & #12 GROUND, & #6 BARE BOND FROM PULL BOX TO POLE. SEE DETAIL LT-3.
- 2 #7 PULL BOX WITH EXTENSION PER DETAIL ITS-05.
- 3 12,500 LUMEN LED STREET LIGHT WITH A 32'-0" MOUNTING HEIGHT PER DETAIL LT-4 (SEE SHEET SL4).
- 4 #9 PULL BOX PER DETAILS ITS-03 & ITS-04.
- 5 ITS DUAL QUAD DUCT BANK, (8) 1.25" CONDUITS PER DETAIL ITS-06

LEGEND

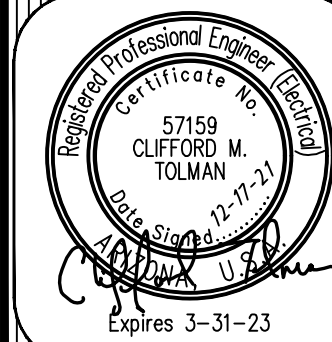
- 12,500 LUMEN LED STREET LIGHT, 32'-0" MTG HEIGHT
- PULL BOX
- CONDUIT RUN
- FUTURE STREET LIGHT



PROJECT: TITLE:

QUEEN CREEK, ARIZONA
QCUSD HIGH SCHOOL
RIGGS RD & CRISMON RD
STREET LIGHT PLAN

| NO. | DATE | SUBMITTALS/REVISIONS (DESCRIPTIONS) |
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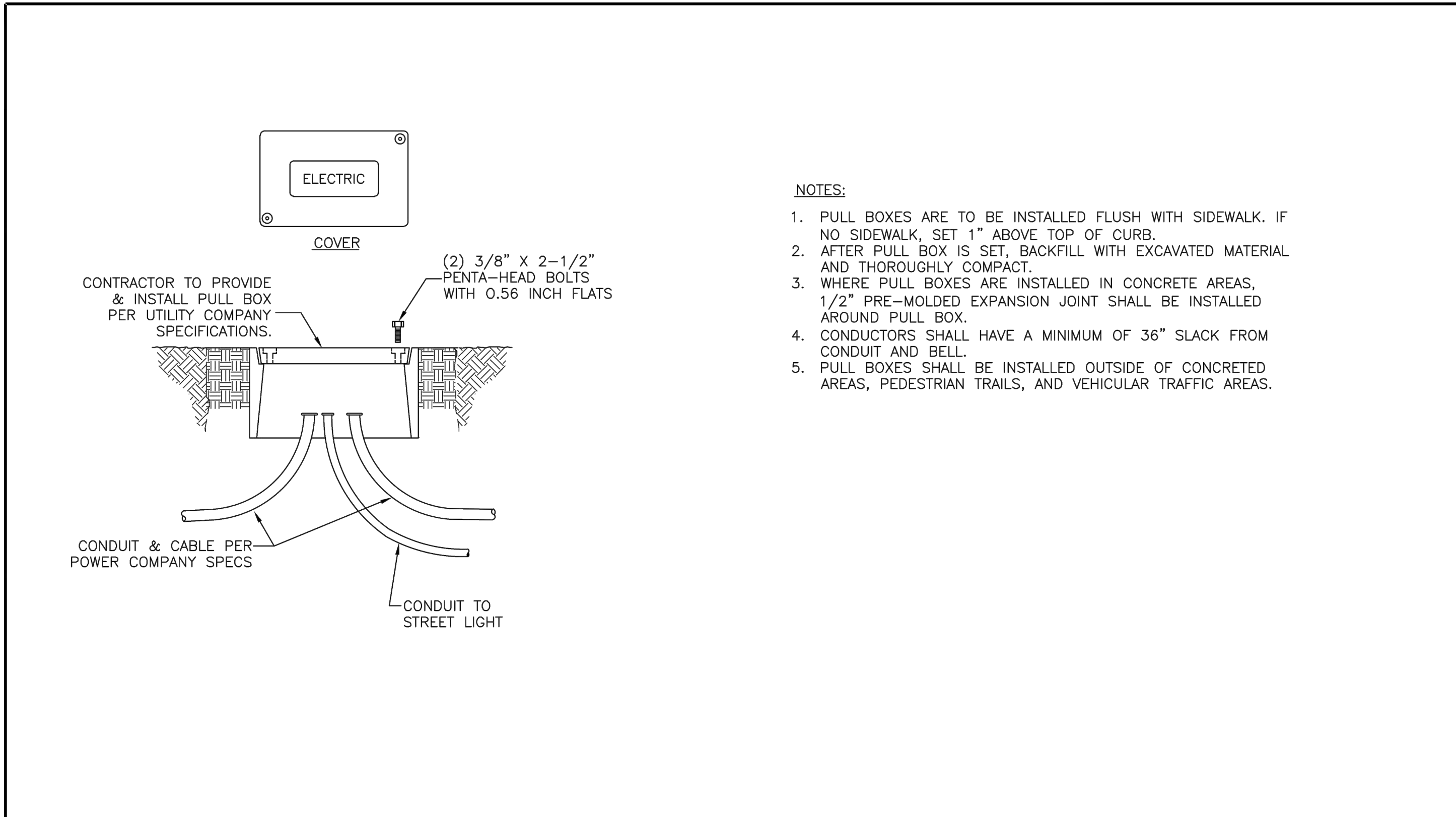


DRAWING NO:
SL3
OF 5

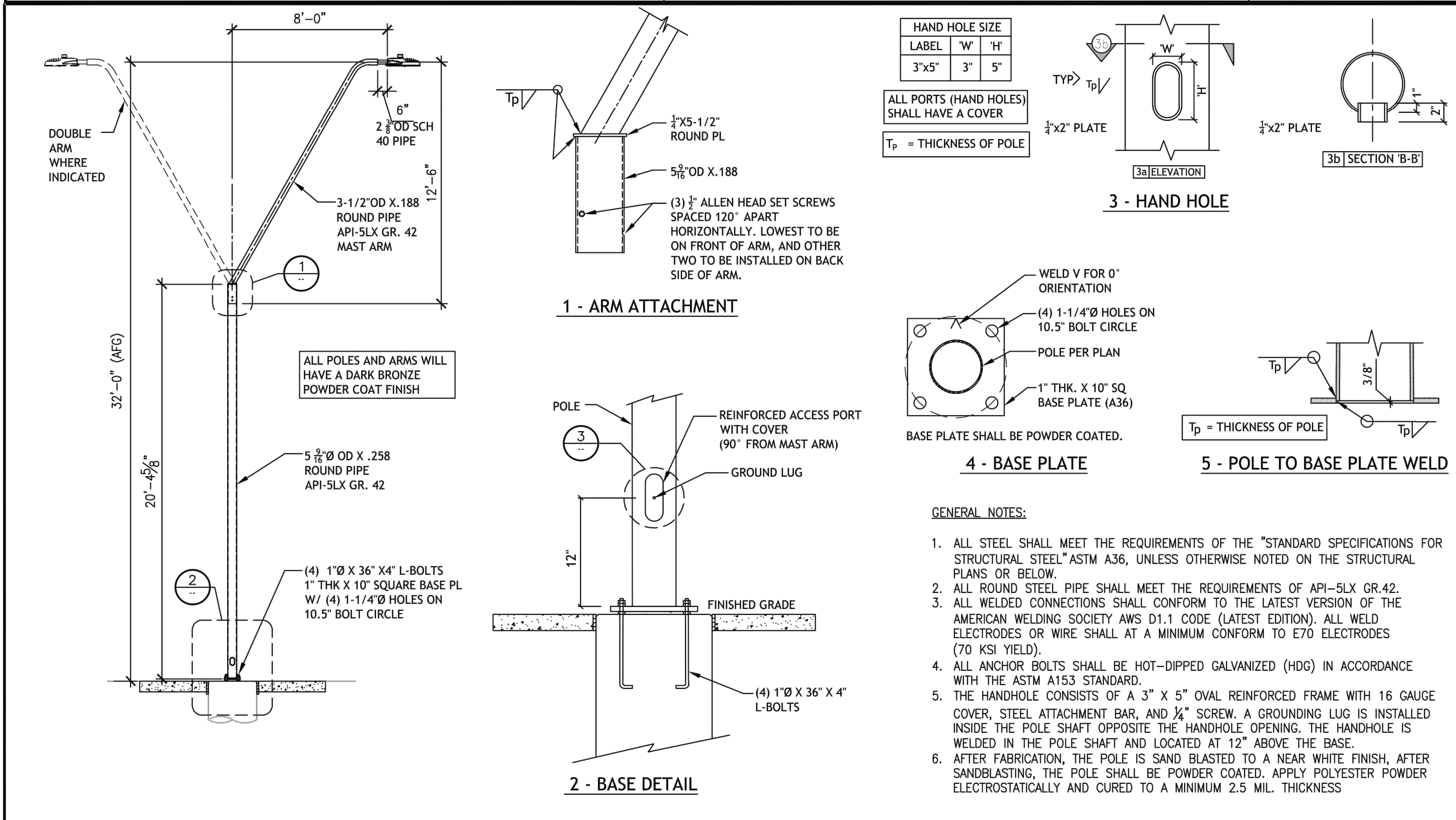
WRIGHT ENGINEERING
PROJECT NO:
21558
DESIGN BY: BKM
DRAWN BY: BKM
CHECKED BY: CMT

WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us

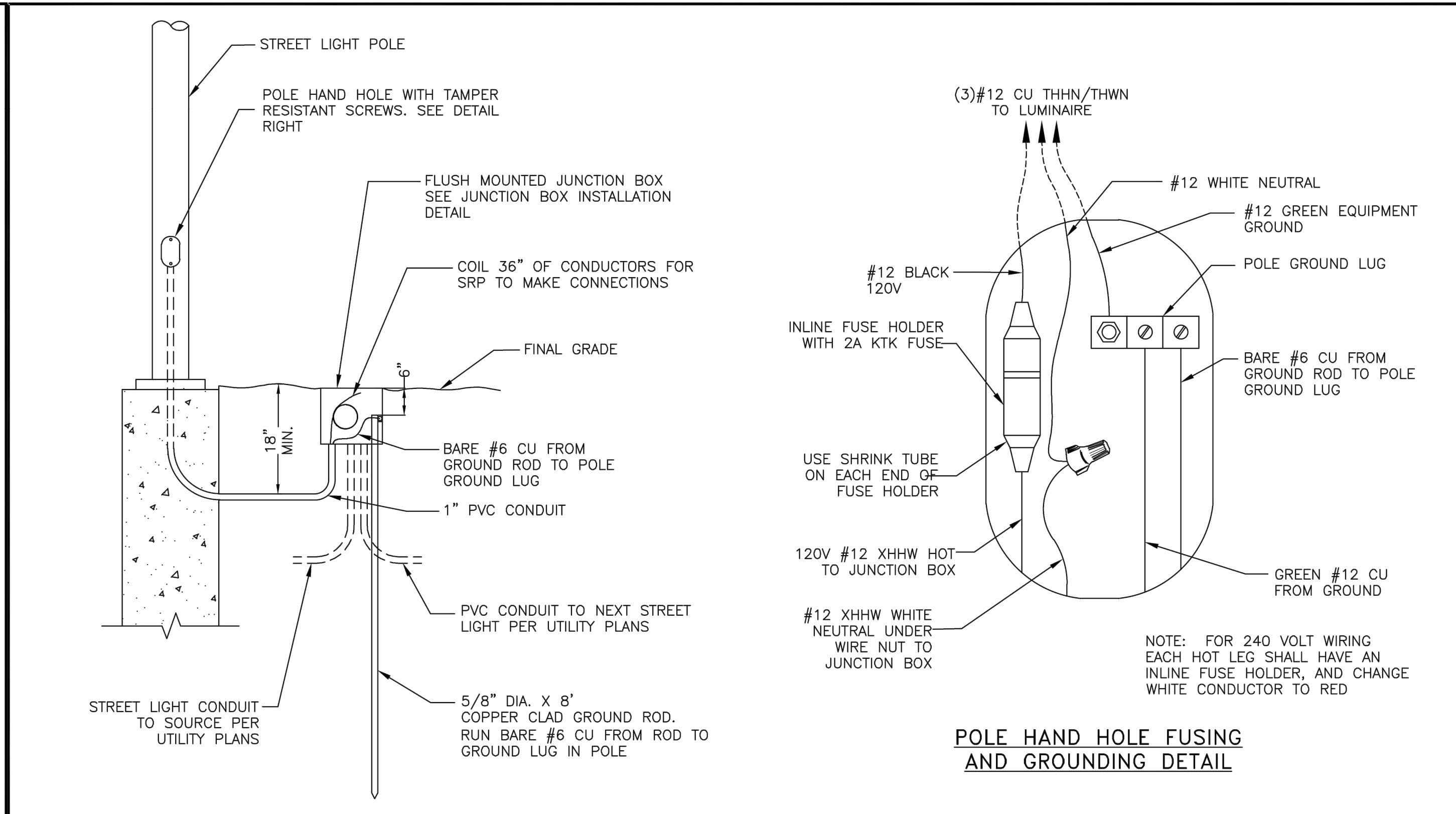
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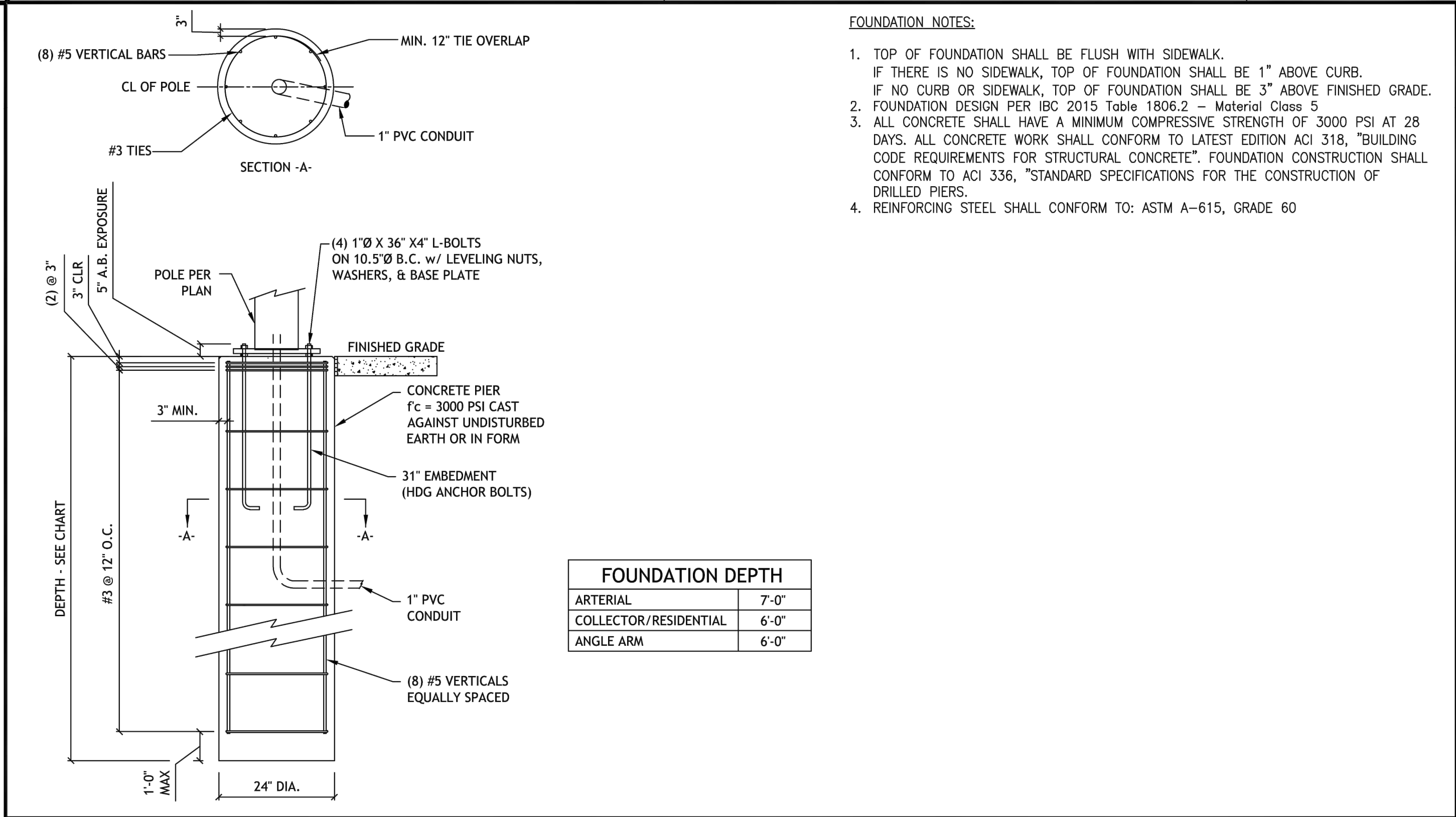
TOWN OF QUEEN CREEK STANDARD DETAIL
STREET LIGHT PULL BOX
LT-2



TOWN OF QUEEN CREEK STANDARD DETAIL
ARTERIAL STREET LIGHT POLE
LT-4



TOWN OF QUEEN CREEK STANDARD DETAIL
GROUNDING & FUSING DETAIL
LT-3



TOWN OF QUEEN CREEK STANDARD DETAIL
STREET LIGHT FOUNDATION
LT-7

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PROJECT NO:
21558
DESIGN BY: BKM
DRAWN BY: BKM
CHECKED BY: CMT

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165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us

PROJECT: QUEEN CREEK, ARIZONA
TITLE: QCUSD HIGH SCHOOL
RIGGS RD & CRISMON RD
STREET LIGHT DETAILS

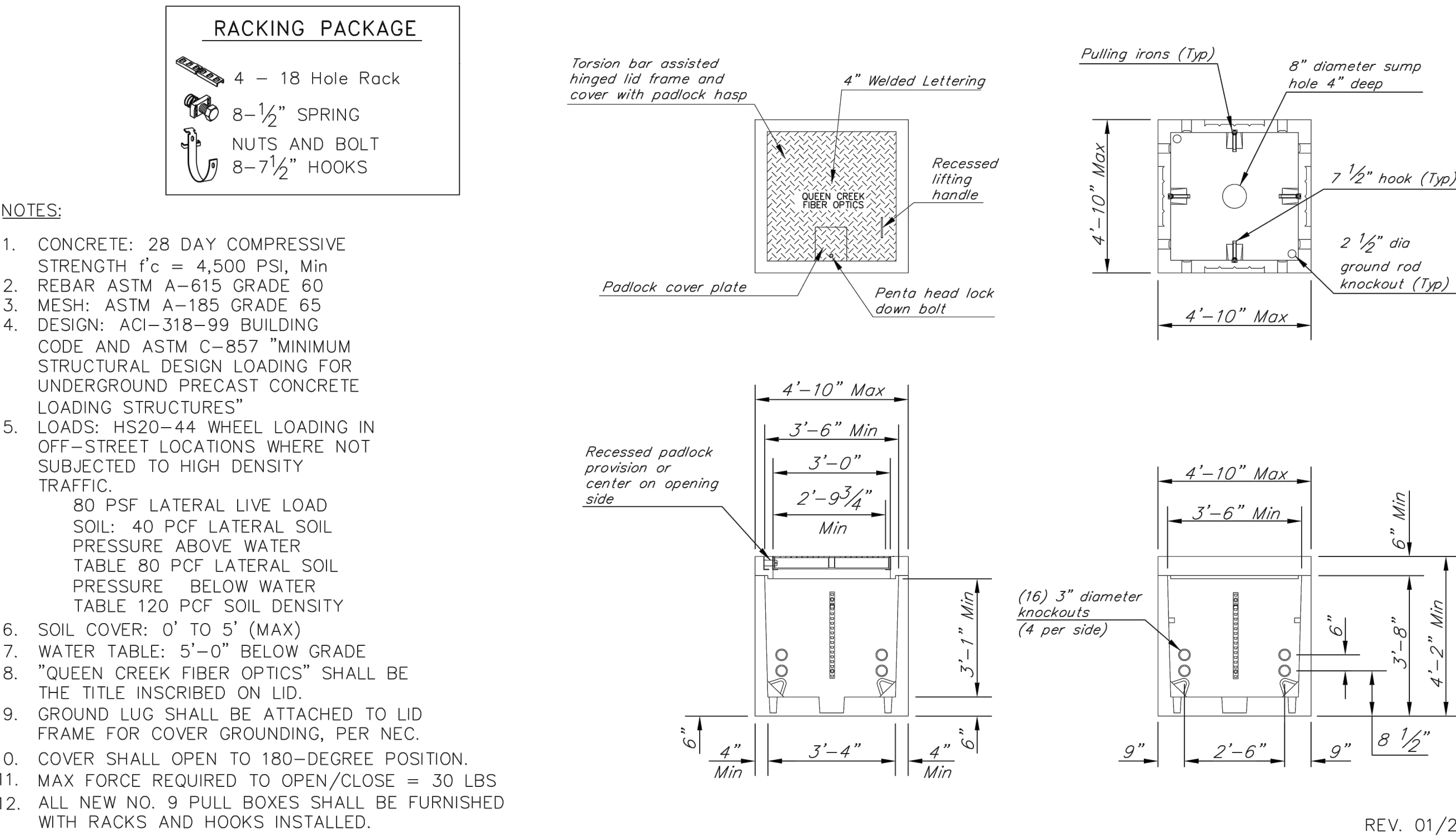
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| 2 | DEC 2021 | 2ND SUBMITTAL |

Professional Engineer
57159
CLIFFORD M. TOLMAN
Expires 3-31-23

DRAWING NO:
SL4
OF 5

Call at least two full working days before you begin excavation.
ARIZONA 811
Dig Safe State Inc.
Dial 8-1-1 or 1-800-STAKE-IT (762-5348)
in Maricopa County: (602) 263-1100

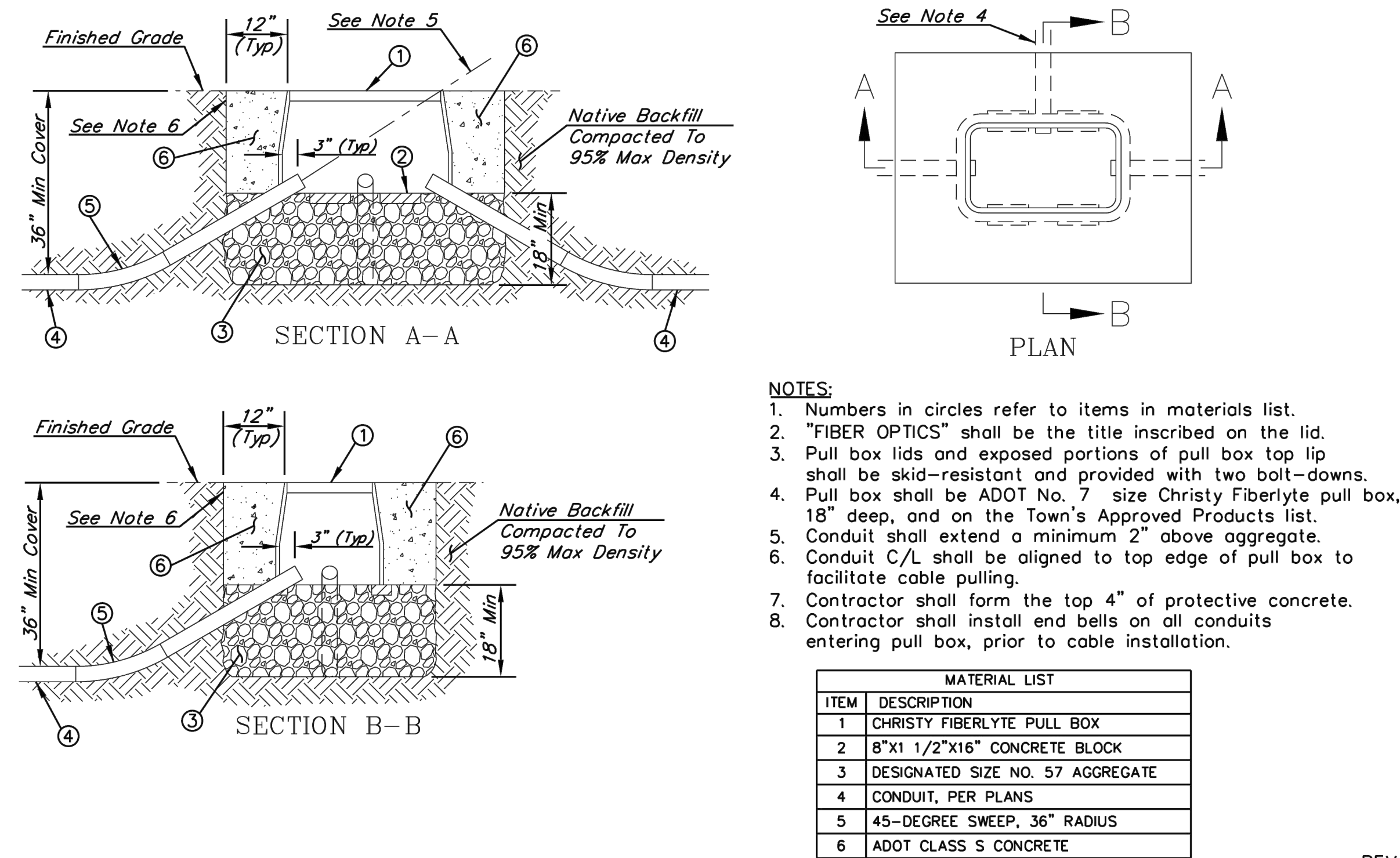
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**TOWN OF QUEEN CREEK
STANDARD DETAIL**

No. 9 PULL BOX

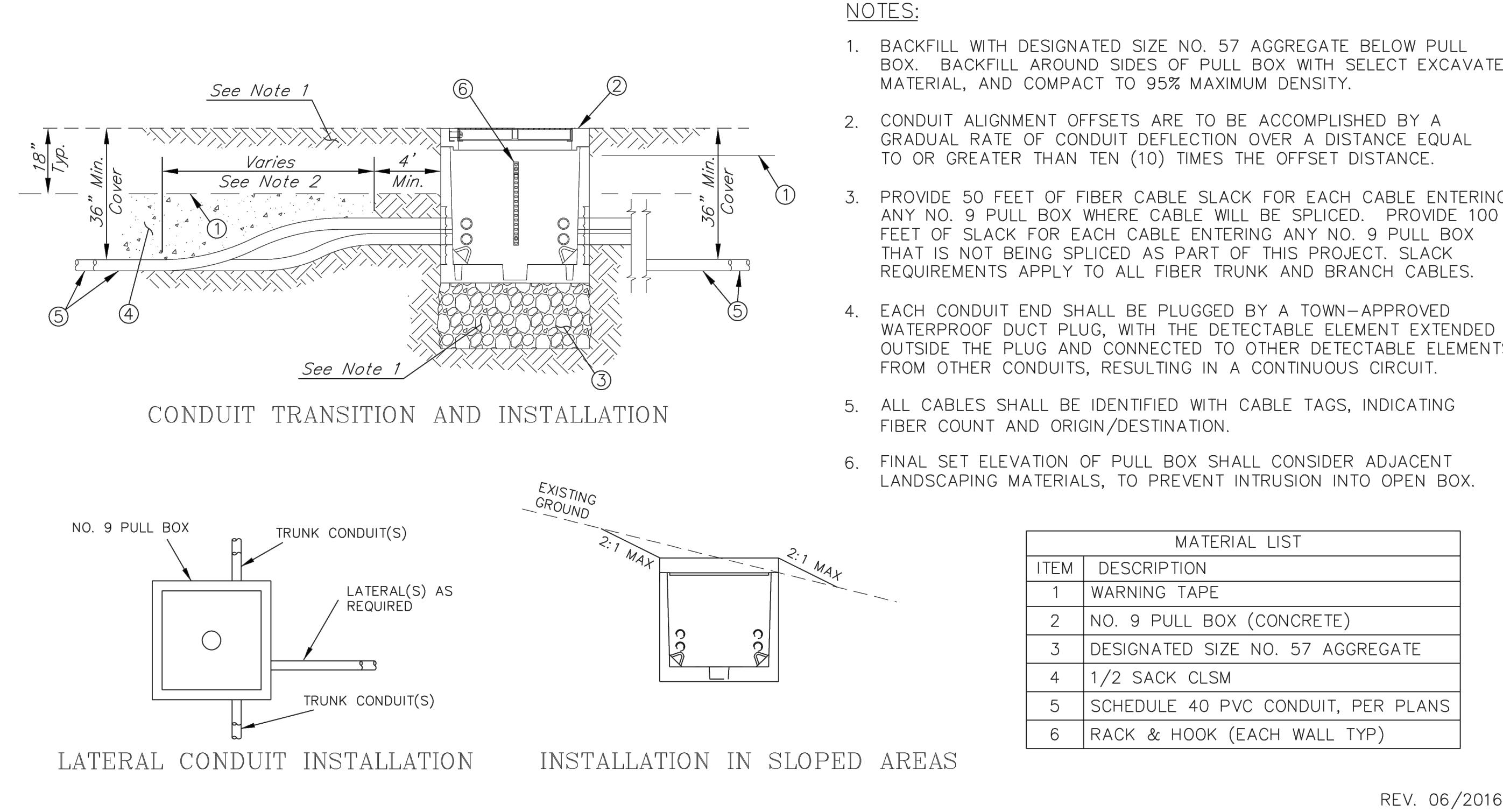
ITS-03



**TOWN OF QUEEN CREEK
STANDARD DETAIL**

COMMUNICATION
No. 7 PULL BOX W/ EXTENSION

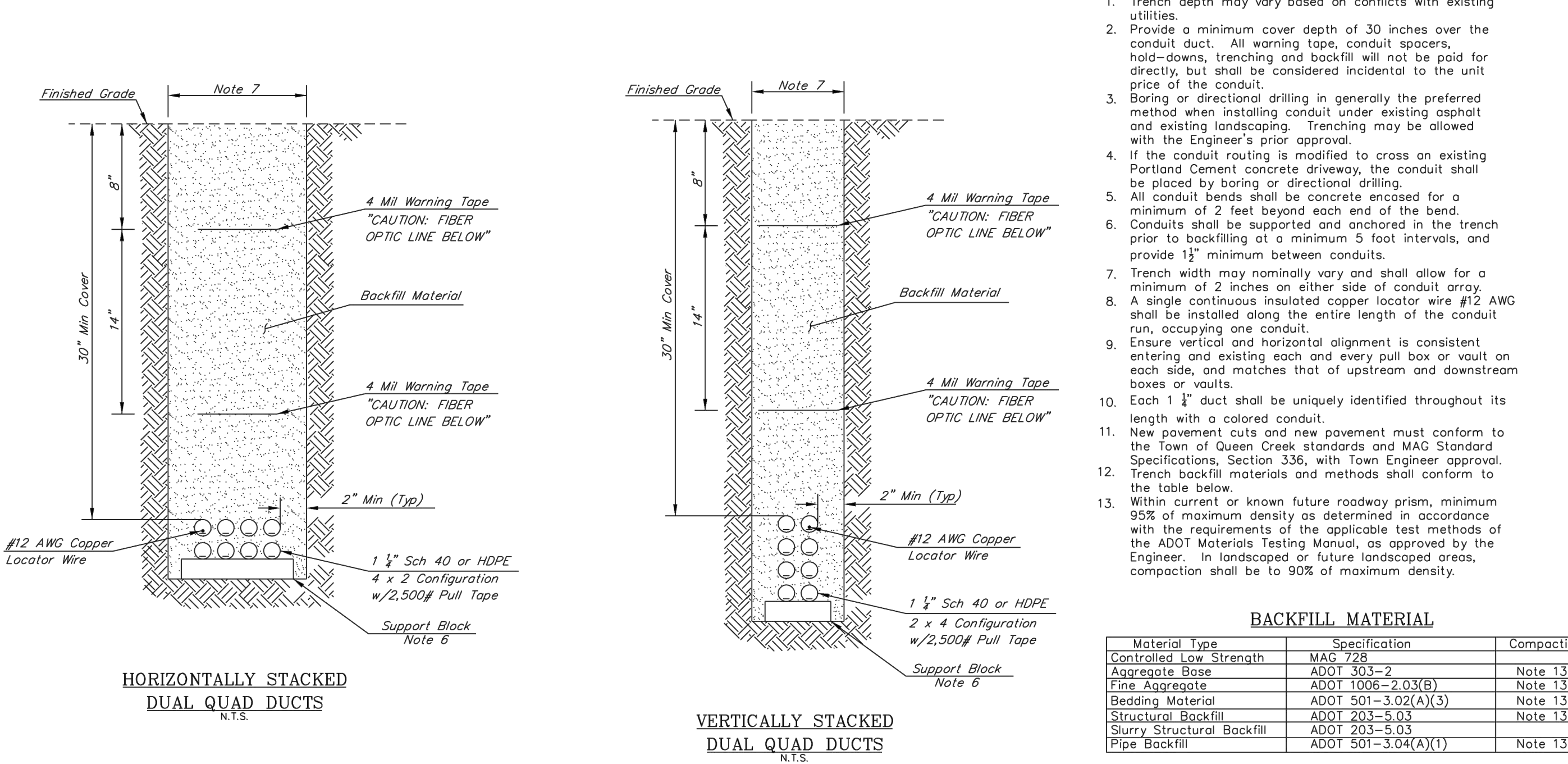
ITS-05



**TOWN OF QUEEN CREEK
STANDARD DETAIL**

No. 9 PULL BOX INSTALLATION

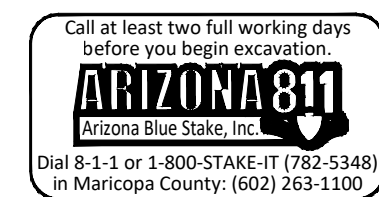
ITS-04



TOWN OF QUEEN CREEK

DUAL QUAD DUCTS
TRENCH DETAIL

ITS-06



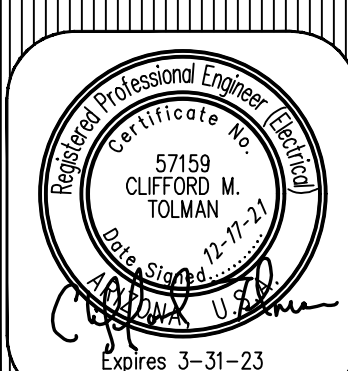
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PROJECT NO:
21558
DESIGN BY: BKM
DRAWN BY: BKM
CHECKED BY: CMT

WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807
www.wrightengineering.us

PROJECT: TITLE:

QUEEN CREEK, ARIZONA
QCUSD HIGH SCHOOL
RIGGS RD & CRISMON RD
STREET LIGHT DETAILS

| NO. | DATE | SUBMITTALS/REVISIONS (DESCRIPTIONS) |
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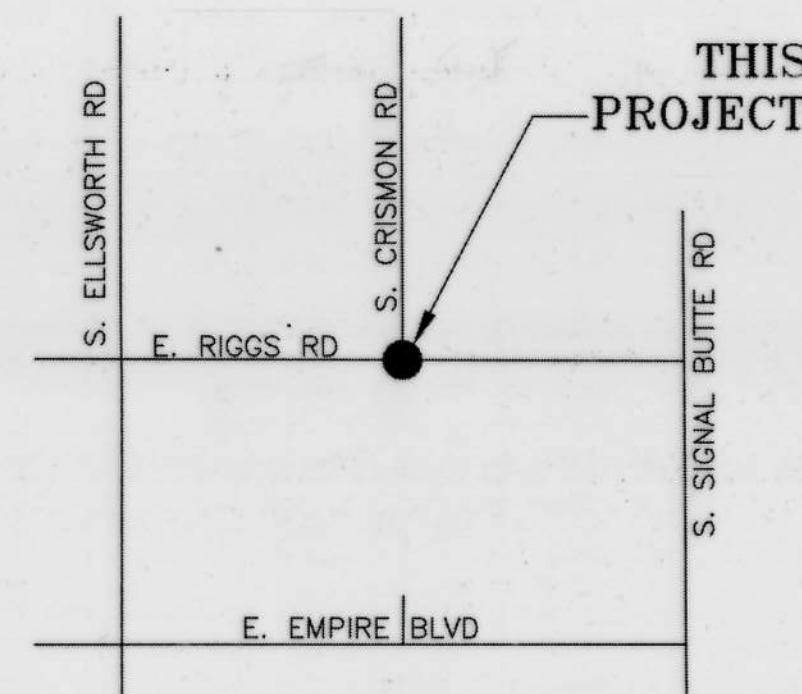


TRAFFIC SIGNAL CONSTRUCTION PLANS FOR TOWN OF QUEEN CREEK

QCUSD HIGH SCHOOL 3 RIGGS RD & CRISMON RD

SIGNAL PLAN GENERAL NOTES

1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE TOWN OF QUEEN CREEK (TOQC) STANDARDS AND DETAILS, THE 2008 ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST APPROVED EDITION, THE CURRENT MAG SPECIFICATIONS AND DETAILS, THE SPECIAL PROVISIONS, AND THESE PLANS.
2. THE UTILITIES DEPICTED HEREON ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF THE FIELD SURVEY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT BLUE STAKE AT 602-263-1100 48-HOURS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY THE EXACT LOCATIONS OF ALL UTILITIES. IF DISCREPANCIES EXIST, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL POTHOLE EXISTING FACILITIES AT ALL CONDUIT CROSSINGS.
4. WHEN INSTALLED ADJACENT TO A SIDEWALK RAMP, TOPS OF POLE FOUNDATIONS SHALL BE PER TOQC STANDARD DETAIL TS-05. OTHERWISE, THEY SHALL BE THE SAME ELEVATION AS EXISTING ADJACENT SIDEWALK OR TOP OF CURB. IF CURB/GUTTER DOES NOT EXIST, NOR IS IT PLANNED FOR CONSTRUCTION ADJACENT TO THE NEW POLE FOUNDATIONS, THE TOP OF FOUNDATION SHALL BE SET A MINIMUM OF 4 INCHES ABOVE THE ADJACENT ROADWAY CROWN.
5. CONTRACTOR SHALL REPLACE ALL LANDSCAPING AND/OR IRRIGATION FACILITIES THAT MAY BE DISTURBED OR DAMAGED DURING TRAFFIC SIGNAL CONSTRUCTION AT HIS OWN EXPENSE. CONTACT THE PROPERTY OWNER FOR INFORMATION ON THE LOCATION OF IRRIGATION EQUIPMENT.
6. THE CONTRACTOR IS RESPONSIBLE FOR TRIMMING EXISTING LANDSCAPING AND VEGETATION ADJACENT TO PROPOSED SIGNAL EQUIPMENT TO ENSURE CLEAR VISIBILITY OF ALL PEDESTRIAN AND SIGNAL HEADS. ALL WORK ASSOCIATED WITH THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF SIGNAL AND PEDESTRIAN HEADS.
7. ALL NEW FIELD EQUIPMENT SHALL BE LOCATED BY A REGISTERED LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF ARIZONA.
8. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL CONTACT THE TOQC TRAFFIC DEPARTMENT AT 480-358-3132 FOR INSPECTION AND APPROVAL OF EQUIPMENT LOCATIONS.
9. TRAFFIC SIGNAL PULL BOXES SHALL BE LEFT IN CLEAN CONDITION.
10. WHERE THE EXISTING PULL BOX IS TO BE REMOVED AND REPLACED WITH A NEW PULL BOX OR SPLICE VAULT, THE CONTRACTOR SHALL ADJUST THE EXISTING CONDUIT SWEEPS TO ENTER THE NEW PULL BOX OR SPLICE VAULT INSTALLATION PER ADOT STANDARDS.
11. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING SALT RIVER PROJECT (SRP) A MINIMUM OF 4 WEEKS PRIOR TO START OF CONSTRUCTION, FOR POWER SOURCE POINT OF DELIVERY (POD) LOCATION AND INSTALLATION REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH THE TOQC TRAFFIC DEPARTMENT AT 480-358-3132 PRIOR TO MAKING CONTACT WITH SRP.
12. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE SERVICE CONDUIT RUN FROM THE SRP POWER SOURCE POD TO THE SIGNAL METER PEDESTAL. SRP IS RESPONSIBLE FOR INSTALLING SERVICE WIRE FROM THE SRP POWER SOURCE POD TO THE METER PEDESTAL.
13. ALL CONDUITS SHALL BE SCHEDULE 40 PVC.
14. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL SALVAGED MATERIAL TO THE TOQC.
15. ALL CONDUIT RUNS UNDER EXISTING PAVEMENT OR DRIVEWAYS SHALL BE INSTALLED BY DIRECTIONAL BORING UNLESS PRIOR APPROVAL IS OBTAINED FROM THE TOQC TRAFFIC DEPARTMENT.
16. THE CONTRACTOR SHALL CONTACT THE TOQC TRAFFIC DEPARTMENT AT 480-358-3132 TO COORDINATE THE EMERGENCY VEHICLE PREEMPTION DETECTOR LINE OF SIGHT.
17. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS FOR TEMPORARY TRAFFIC CONTROL AND SIGNING AND PAVEMENT MARKING AS PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST APPROVED EDITION, THE ARIZONA SUPPLEMENT TO THE MUTCD, AND TOWN OF QUEEN CREEK REQUIREMENTS.
18. THE CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS TO THE TOWN OF QUEEN CREEK TRAFFIC ENGINEERING DEPARTMENT PRIOR TO ORDERING ANY MATERIALS. UPON WRITTEN APPROVAL BY THE TOWN, SUBMITTED MATERIALS MAY BE ORDERED.
19. THE CONTRACTOR SHALL CONTACT THE TOWN OF QUEEN CREEK TRAFFIC DEPARTMENT AT 480-358-3132 TO SCHEDULE THE TURN-ON A MINIMUM OF 10 WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL PROVIDE AN OFF-DUTY DEPUTY FROM THE QUEEN CREEK DISTRICT OF THE MARICOPA COUNTY SHERIFF'S OFFICE TO CONTROL TRAFFIC DURING THE SIGNAL TURN-ON.
20. SEE SIGNING AND PAVEMENT MARKING PLANS FOR ACTUAL LANE DIMENSIONS, STOP BAR LOCATIONS AND REQUIREMENTS.
21. MOUNTING HEIGHT FOR TRAFFIC SIGNAL FACES SHALL COMPLY WITH THE CURRENTLY APPROVED EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES HANDBOOK.
22. THE CONTRACTOR SHALL INSTALL A 2" FLUORESCENT YELLOW PRISMATIC ASTM D4956 TYPE XII, IX, OR XI RETRO REFLECTIVE BORDER AROUND THE ENTIRE PERIMETER OF EACH BACK PLATE FOR ALL HEADS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUPPLYING AND INSTALLING THE RETRO REFLECTIVE TAPE.



VICINITY MAP

NTS



UNDERGROUND UTILITIES

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY OR STRUCTURE DEPICTED HEREON IS BASED UPON THE BEST AVAILABLE INFORMATION AT THE TIME OF THE SURVEY.
2. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS AND THE ENGINEER ASSUMES NO RESPONSIBILITY AS THE THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS.
3. THE CONTRACTOR SHALL CONTACT BLUE STAKE AT (602) 263-1100, 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL INVOLVED AGENCIES, AND FIELD VERIFY EXACT LOCATIONS OF ALL UTILITIES. IF DISCREPANCIES EXIST THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

SHEET INDEX

| | |
|-----|----------------------------|
| TS1 | TRAFFIC SIGNAL COVER SHEET |
| TS2 | TRAFFIC SIGNAL PLAN |
| TS3 | TRAFFIC SIGNAL DETAILS |
| TS4 | TRAFFIC SIGNAL DETAILS |

ENGINEER

WRIGHT ENGINEERING CORPORATION
165 EAST CHILTON DRIVE
CHANDLER, AZ 85225
PHONE: (480) 497-5829
CONTACT: ADAM BOWERS

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD-DRAWINGS" MEASUREMENTS AS SHOWN HEREON WAS MADE UNDER MY SUPERVISION, OR AS NOTED, AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR/ENGINEER _____ DATE _____

REGISTRATION NUMBER _____

TOWN OF QUEEN CREEK APPROVAL

TOWN TRAFFIC ENGINEER [Signature] DATE 1-18-2022
TOWN ENGINEER [Signature] DATE 1-16-22

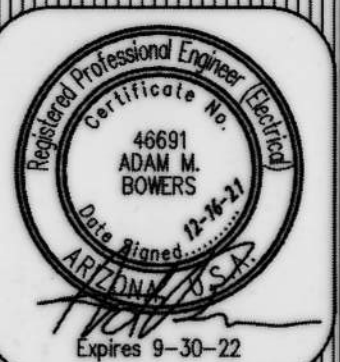
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PROJECT NO:
21558
DESIGN BY: MRS
DRAWN BY: MRS
CHECKED BY: AMB

WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE
CHANDLER, AZ 85225
PHONE (480) 497-5829 • FAX (480) 497-5807
www.wrightengineering.us

PROJECT: TITLE:

QUEEN CREEK, ARIZONA
TRAFFIC SIGNAL
QCUSD HIGH SCHOOL 3
TRAFFIC SIGNAL COVER SHEET

| NO. | DATE | SUBMITTALS/REVISIONS (DESCRIPTIONS) |
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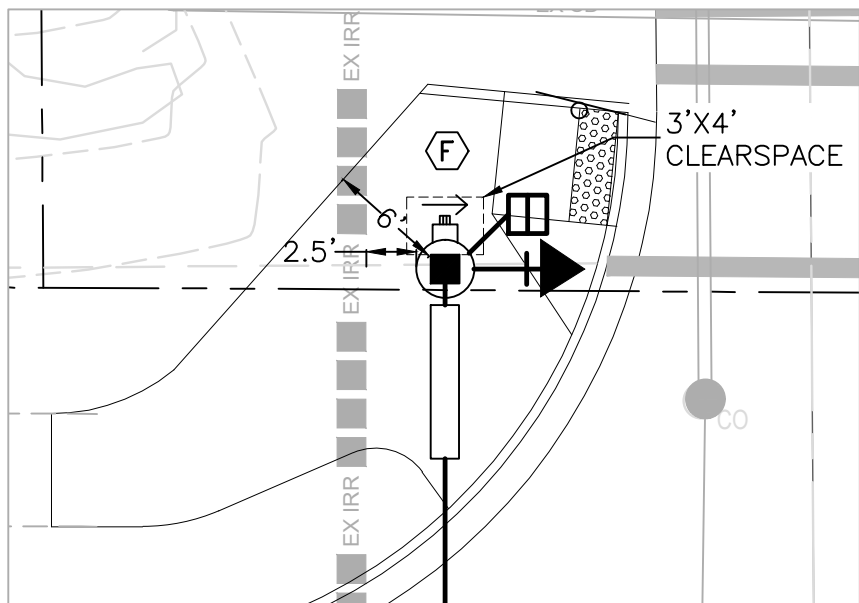


DRAWING NO:
TS1
OF 4

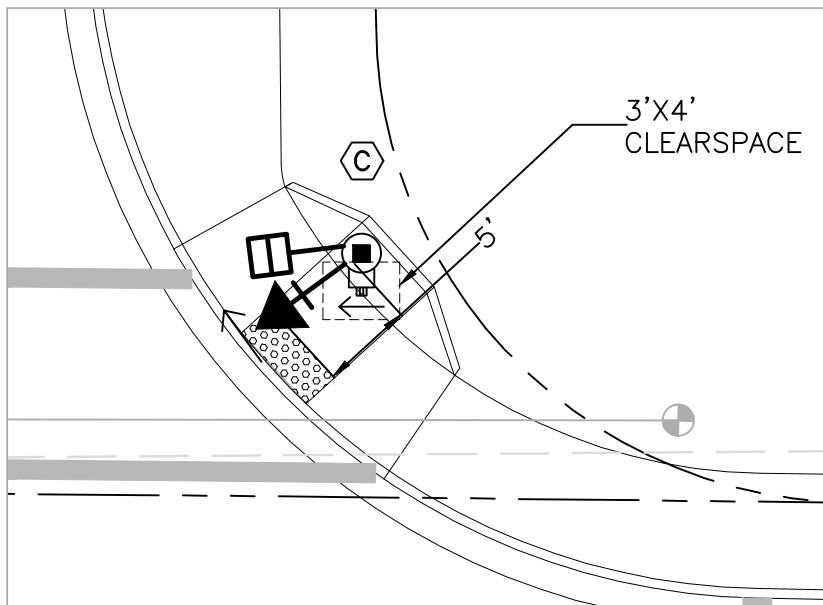


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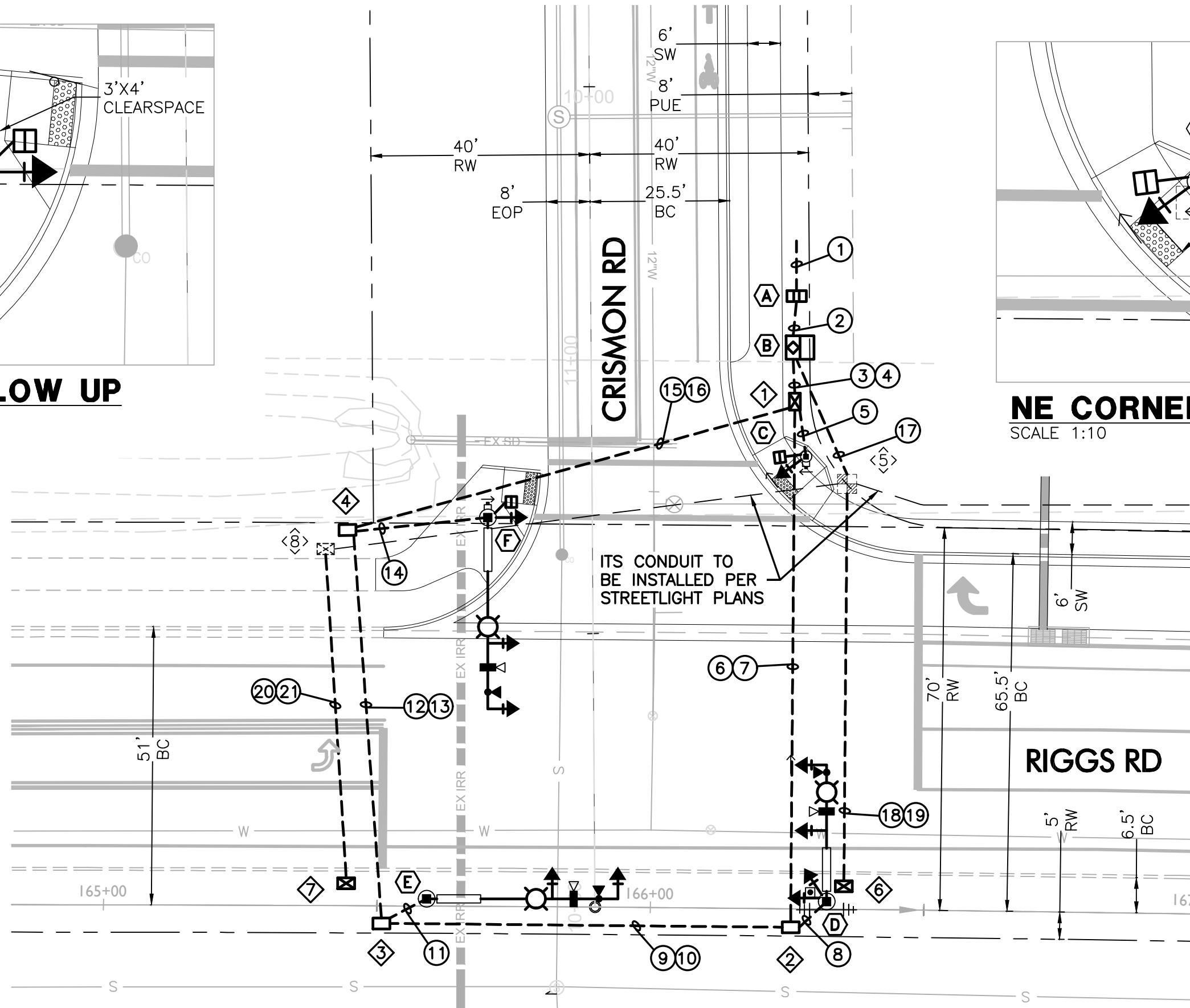
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NW CORNER BLOW UP
SCALE 1:10



NE CORNER BLOW UP
SCALE 1:10



CONSTRUCTION NOTES

- ALL CONDUIT RUNS SHOWN ARE SCHEMATICALLY DRAWN ON THESE PLANS. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AND ROUTE CONDUIT TO AVOID SUCH.
- INSTALL ADA ACCESS PADS TO ALLOW ADA REQUIRED ACCESS TO PED PUSH BUTTONS FOR ALL PUSH BUTTONS PER ADA ACCESS DETAIL ON SHEET TS4. COORDINATE WITH TOWN INSPECTOR PRIOR TO POURING PAD.

PULL BOX SCHEDULE

| PULL BOX NO. | TYPE | RIGGS RD STATION & OFFSET |
|--------------|----------|---------------------------------|
| 1 | #7 w/EXT | STA 166+25 92.7' L |
| 2 | #7 | STA 166+26 3.4' R |
| 3 | #7 | STA 165+51 3.2' R |
| 4 | #7 | STA 165+44 68.7' L |
| 5 | #9 | INSTALLED PER STREETLIGHT PLANS |
| 6 | #7 w/EXT | STA 166+35 4.2' L |
| 7 | #7 w/EXT | STA 165+44 4.1' L |
| 8 | #7 w/EXT | INSTALLED PER STREETLIGHT PLANS |

CONDUCTOR SCHEDULE

| CONDUIT RUN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|--|-------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|
| CONDUIT SIZE (IN) | 2 1/2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |
| AWG | | | | | | | | | | | | | | | | | | | | | |
| CIRCUIT PHASE | | | | | | | | | | | | | | | | | | | | | |
| NUMBER OF WIRES | | | | | | | | | | | | | | | | | | | | | |
| IMSA * | | | | | | | | | | | | | | | | | | | | | |
| 25 CONDUCTOR CABLE | | | | | | | | | | | | | | | | | | | | | |
| 7 CONDUCTOR CABLE | | | | | | | | | | | | | | | | | | | | | |
| 4 CONDUCTOR CABLE | | | | | | | | | | | | | | | | | | | | | |
| Δ PRE-EMPTION CABLE | | | | | | | | | | | | | | | | | | | | | |
| ○ VIDEO DETECTION | | | | | | | | | | | | | | | | | | | | | |
| #12 LIGHTING XHHW (RED) | | | | | | | | | | | | | | | | | | | | | |
| SIGN LIGHTING XHHW (BROWN) | | | | | | | | | | | | | | | | | | | | | |
| NEUTRAL (WHITE) | | | | | | | | | | | | | | | | | | | | | |
| #8 GREEN THHN/THWN, STRANDED, COPPER BOND. | | | | | | | | | | | | | | | | | | | | | |
| #8 POWER BLK. THW | | | | | | | | | | | | | | | | | | | | | |
| #8 POWER WH. THW | | | | | | | | | | | | | | | | | | | | | |
| CCTV CABLE | | | | | | | | | | | | | | | | | | | | | |
| CAT5E ANTENNA CABLE | | | | | | | | | | | | | | | | | | | | | |
| 12 SMFO GATOR PATCH CABLE | | | | | | | | | | | | | | | | | | | | | |

◆ SRP 2.5" RED CONDUIT, DEPTH PER SRP REQUIREMENTS. WIRE SIZE/QUANTITIES PER SRP SPECIFICATIONS.

TRAFFIC SIGNAL CONDUCTOR NOTES

- IMSA 25, 7, AND 4 CONDUCTOR CABLES SHALL BE NO. 14 AWG IMSA 19-1. ALL IMSA CONDUCTORS SHALL BE SOLID.
- ALL NEW WIRE (BOTH UNDERGROUND AND OVERHEAD) SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MULTI-COLORED CONDUCTORS WHICH MEET THE COLOR CODING IDENTIFIED IN TOWN OF QUEEN CREEK STANDARD DETAIL TS-02.
- WHEN SPlicing 25 CONDUCTOR CABLES IN PULL BOXES, ONLY THOSE CONDUCTORS THAT WILL BE UTILIZED IN THE SPECIFIC PULL BOX ARE TO BE CUT. ALL OTHER CONDUCTORS SHALL RUN THROUGH THE PULL BOX UN-CUT. 25 CONDUCTORS SHALL RUN CONTINUOUSLY FROM CONTROLLER CABINET THROUGH ALL PULL BOXES.
- INSTALL NO. 8 BARE BOND IN ALL EMPTY CONDUITS.
- ALL LUMINAIRES AND ILLUMINATED STREET NAME SIGNS SHALL HAVE SEPARATE FUSES INSTALLED IN PULL BOXES AT THE BASE OF THE POLE.
- ALL PULL BOXES AND LIDS SHALL BE "CHRISTY FIBRELYTE" LIDS SHALL BE PROVIDED WITH LOCKING DEVICES AND APPROPRIATE WORDING ON LIDS "TRAFFIC SIGNAL".
- WHEN INSTALLING TWO PEDESTRIAN SIGNAL HEADS ON ONE SUPPORT POLE, A 4 CONDUCTOR CABLE SHALL BE RAN TO EACH SIGNAL HEAD.
- SPLICES IN PULL BOXES SHALL BE MADE WITH IDEAL (OR APPROVED EQUAL) SILICONE FILLED WIRE NUTS.
- CONTRACTOR SHALL USE COLORED TAPE TO CODE ALL TRAFFIC SIGNAL CONDUCTOR CABLES, EMERGENCY VEHICLE PRE-EMPTION CABLES, AND VIDEO DETECTION CABLES IN EACH PULL BOX PER TOWN OF QUEEN CREEK STANDARD DETAIL TS-03.
- SPLICING OF CONDUCTORS SHALL NOT BE ALLOWED INSIDE CONDUITS.
- ALL SIGNAL COMMON'S SHALL BE CRIMPED OR SPLIT BOLT

TRAFFIC SIGNAL ITS NOTES

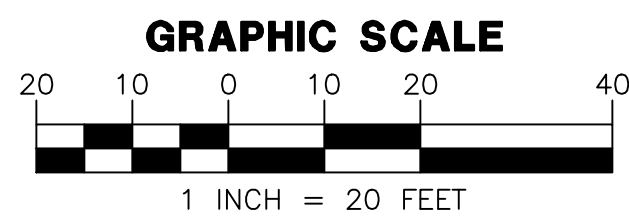
- THE CONTRACTOR SHALL PROVIDE AND INSTALL (1) CCTV CAMERA AT THE LOCATION INDICATED ON THE PLANS. CAT5E CABLE SHALL RUN UN-SPLICED FROM THE CAMERA TO THE CONTROLLER CABINET. CONTRACTOR SHALL PROVIDE (1) SPARE CCTV CAMERA WITH MOUNTING BRACKET AND SURGE PROTECTION SHALL BE PROVIDED TO THE TOWN.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL (2) WIRELESS RADIO/ANTENNA AT THE LOCATION(S) INDICATED ON THE PLANS. CAT5E CABLE SHALL BE OUTDOOR RATED AND SHALL RUN UN-SPLICED FROM THE RADIO TO THE CONTROLLER CABINET. AND THE CONTRACTOR SHALL PROVIDE (1) 12 SMFO GATOR PATCH CABLE THAT EXTENDS FROM THE NEAREST NO. 9 PULL BOX TO THE CONTROLLER CABINET, WITH (2) FIBER OPTIC GEL SPLICE CLOSURE.
- THE CONTRACTOR SHALL PROVIDE (1) ETHERNET SWITCH.
- SURGE PROTECTION IS REQUIRED FOR THE CCTV CAMERA AND RADIOS.
- THE CONTRACTOR SHALL DELIVER THE CCTV CAMERA, WIRELESS RADIO, AND ETHERNET SWITCH TO THE TOOC TRAFFIC DEPARTMENT (480-358-3132) FOR CONFIGURATION A MINIMUM OF 10 WORKING DAYS PRIOR TO INSTALLATION.
- PRIOR TO INSTALLATION OF ANY ITS DEVICES EITHER ON THE POLE OR IN THE CONTROLLER CABINET, THE CONTRACTOR SHALL CONTACT THE TOOC TRAFFIC DEPARTMENT AT 480-358-3132 FOR APPROVAL OF INSTALLATION LOCATION.
- ALL #9 VAULT LIDS SHALL BE INSCRIBED "QUEEN CREEK FIBER OPTIC"
- REFER TO TRAFFIC APPROVED MATERIAL LIST FOR MORE DETAILS.

LEGEND

| PROPOSED | EXISTING | |
|----------|----------|--------------------------------|
| --- | --- | UNDERGROUND CONDUIT |
| □ | □ | NO. 5 PULL BOX |
| □ | □ | NO. 7 PULL BOX |
| □ | □ | NO. 7 PULL BOX WITH EXTENSION |
| □ | □ | METERED SERVICE PEDESTAL |
| □ | □ | CONTROL CABINET AND FOUNDATION |
| ○ | ○ | TRAFFIC SIGNAL FOUNDATION |
| → | → | TRAFFIC SIGNAL INDICATION |
| → | → | PEDESTRIAN INDICATION |
| → | → | PEDESTRIAN PUSH BUTTON |
| → | → | LED LUMINAIRE |
| → | → | VIDEO DETECTION |
| → | → | PRE-EMPTION |
| → | → | ILLUMINATED STREET NAME SIGN |
| → | → | STREET NAME SIGN |
| → | → | CONDUIT RUN NUMBER TAG |
| → | → | TRAFFIC SIGNAL POLE TAG |
| → | → | CCTV CAMERA |
| → | → | #9 ITS VAULT |
| → | → | RADIO ANTENNA |

SPECIAL NOTE

THE SIGNAL CONTRACTOR SHALL CONTACT TOWN OF QUEEN CREEK FOR A PRE-CONSTRUCTION MEETING PRIOR TO ANY CONSTRUCTION TAKING PLACE.



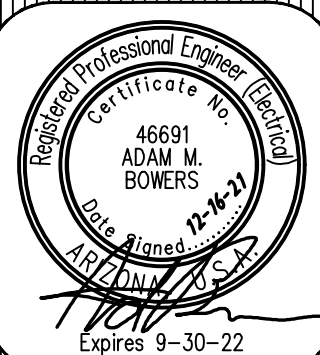
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PROJECT: TITLE:

QUEEN CREEK, ARIZONA
TRAFFIC SIGNAL
CQUSD HIGH SCHOOL 3
TRAFFIC SIGNAL PLAN

| NO. | DATE | SUBMITTALS/REVISIONS (DESCRIPTIONS) |
|-----|----------|-------------------------------------|
| 1 | OCT 2021 | 1ST SUBMITTAL |
| 2 | DEC 2021 | 2ND SUBMITTAL |



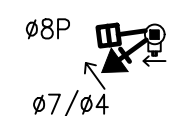
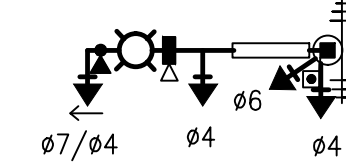
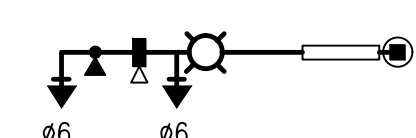
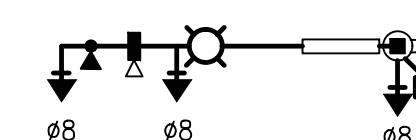


DRAWING NO:
TS2
OF 4

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EQUIPMENT SCHEDULE

| CABINET | | TYPE | CONTROLLER | | AUX. CONTROL | | REMARKS | | LOCATION |
|---|--|---|--------------------------------------|-----|------------------------------|--------------------------|---|--|-----------------------|
| <div><div>A</div><div></div></div> | | MEYERS | MEUG3A-2050-M100-AZ | | | | | STA 166+26 112.0' L | |
| <div><div>B</div><div></div></div> | | ADOT TYPE V, TS-2 CONTROL CABINET WITH BACKUP BATTERY SYSTEM | ECONOLITE TS-2, TYPE 1, PLUG-N-GO | | | | FOUNDATION AND CONDUIT CONFIGURATION PER TOQC STD DETAIL TS-01. | STA 166+25 102.6' L | |
| POLE | | TYPE | MAST ARM | | SIGNALS | | PPB SIGN | REMARKS | LOCATION |
| | | | SIG | LUM | MTG. | FACE | | | |
| <div><div>C</div><div></div></div> | | A 16' | -- | -- | 1-XI 1-V | 1-G 1-M/H | R10-4b(L) | NOTE 5 NOTE 7 NOTE 10 | STA 166+28 82.7' L |
| <div><div>D</div><div></div></div> | | Q | 25' | 20' | 1-II 1-II 1-XI 1-XI | 1-G 1-F 1-F 1-F | | NOTE 1 NOTE 2 NOTE 3 NOTE 4 NOTE 6 NOTE 7 NOTE 9 NOTE 10 NOTE 12 | STA 166+32 1.4' L |
| <div><div>E</div><div></div></div> | | Q | 35' | 20' | 2-II | 2-F | | NOTE 1 NOTE 2 NOTE 3 NOTE 4 NOTE 6 | STA 165+59 1.3' L |
| <div><div>F</div><div></div></div> | | Q | 35' | 20' | 2-II 1-XI 1-V | 2-F 1-F 1-M/H | R10-4b(L) | NOTE 1 NOTE 2 NOTE 3 NOTE 4 NOTE 5 NOTE 6 NOTE 7 | STA 165+70 71.1' L |

TRAFFIC SIGNAL POLE SCHEDULE NOTES

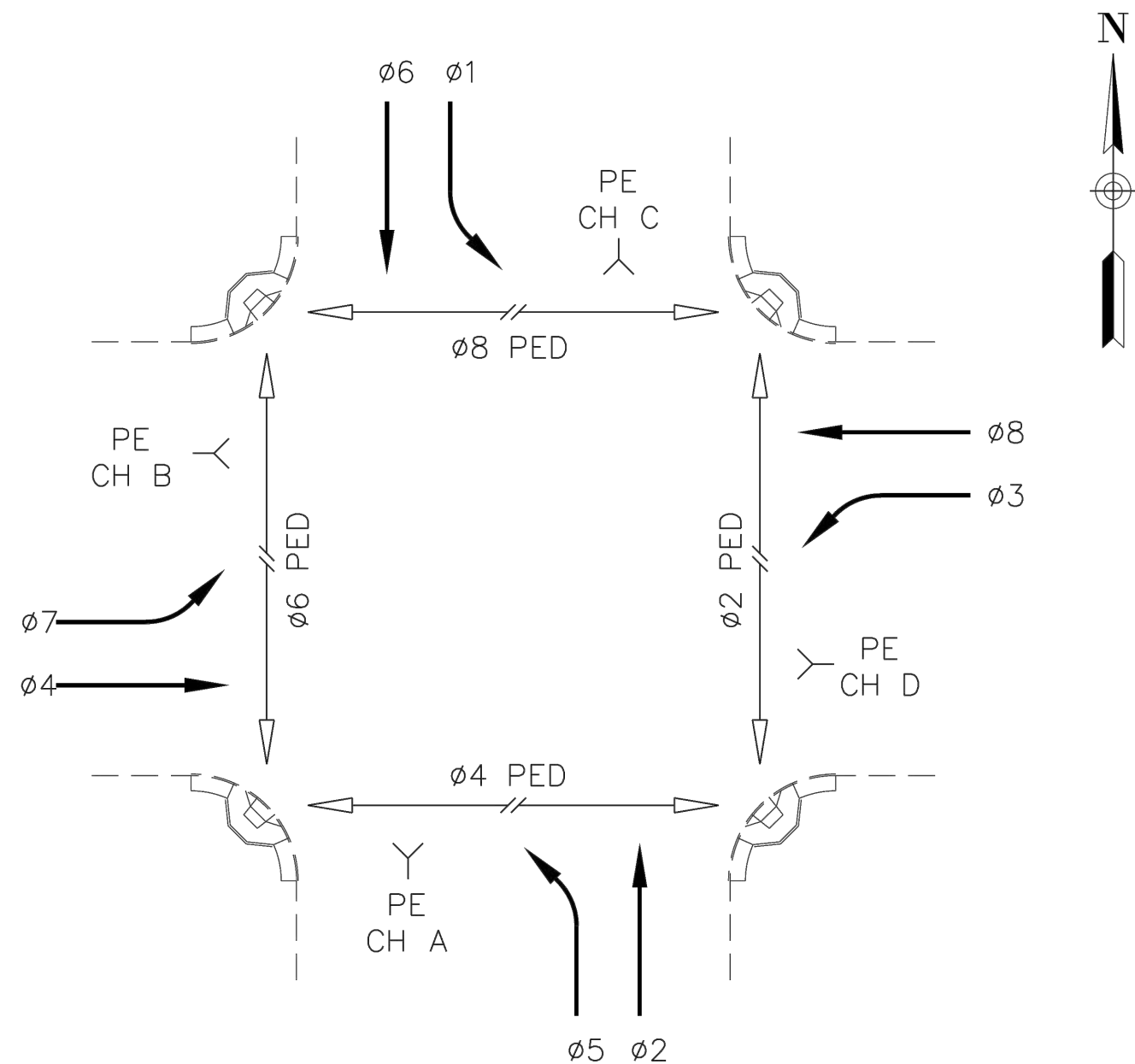
- THE CONTRACTOR SHALL PROVIDE AND INSTALL LED LUMINAIRES. ALL LUMINAIRES SHALL HAVE SHORTING CAPS INSTALLED. GE CAT# ERL2016C330DGRAY
- INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS) SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. PRIOR TO ORDERING OR MANUFACTURING IISNS, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL TO TOQC TRAFFIC DEPARTMENT. SHOP DRAWINGS SHALL INCLUDE FRONT AND BACK FACE LAYOUT, CABINET DETAILS, LIGHTING SPECIFICATIONS, MOUNTING SPECIFICATIONS, COLOR AND FONT SPECIFICATIONS. ADDRESSES FOR THE SIGNS WILL BE PROVIDED BY THE TOQC TRAFFIC DEPARTMENT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL EMERGENCY VEHICLE PRE-EMPTION. TERMINATIONS SHALL BE PER TOQC STANDARD DETAIL TS-02 AND TS-04. THE CONDUCTOR CABLE FOR THE EMERGENCY VEHICLE PRE-EMPTION CABLE SHALL RUN UNSPLICED FROM THE DETECTOR TO THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL SUPPLY A COMPLETE CABINET ASSEMBLY, SIGNAL POLES (INCLUDING ANCHOR BOLTS), MAST ARMS, SIGNAL AND PEDESTRIAN HEADS (INCLUDING MOUNTING BRACKETS) AND PEDESTRIAN PUSH BUTTONS.
- THE CONTRACTOR SHALL INSTALL PEDESTRIAN PUSH BUTTONS PER ADOT STANDARD DETAIL TS 11-1. PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED IN ACCORDANCE WITH ADOT STANDARD DETAIL TS 9-9, WITH THE CENTERS OF THE PUSH BUTTON NOT EXCEEDING A MAXIMUM OF 42" ABOVE THE ADJACENT FINISHED SIDEWALK. ALL PUSH BUTTONS SHALL BE ETCHED WITH TOWN LOGO. CONTRACTOR SHALL PROVIDE (2) SPARE PUSH BUTTONS PER INTERSECTION.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL A VIDEO DETECTION (4) CAMERA SYSTEM, PER TOWN OF QUEEN CREEK SPECIFICATIONS. INSTALLATION OF THE VIDEO DETECTION POWER/DATA CONDUCTORS SHALL RUN UNSPLICED FROM EACH CAMERA TO THE CONTROLLER CABINET. CONTRACTOR SHALL PROVIDE (1) SPARE CAMERA AND MOUNTING ASSEMBLY PER INTERSECTION.
- ALL SIGNAL HEADS WITH TYPE XI SIDE MOUNTS SHALL HAVE A 12" ARM. PEDESTRIAN HEADS SHALL BE ADOT STANDARD.
- ALL MATERIAL SUPPLIED SHALL COMPLY WITH THE TOWN OF QUEEN CREEK TRAFFIC APPROVED MATERIAL LIST. SEE THE LIST FOR DETAILS AND SPECIFICATIONS
- INSTALL CCTV CAMERA PER TOQC SPECIFICATIONS
- G HEADS SHELL HAVE A 12" GREEN / YELLOW BI-MODAL ARROW
- MAST ARM SIGNAL MOUNTING SHALL BE PER TOQC STANDARD DETAIL TS-06
- THE CONTRACTOR SHALL PROVIDE AND INSTALL (2) RADIO/ANTENNA COMBO PER TOQC APPROVED MATERIALS LIST AND SPECIFICATIONS. ANTENNA CABLES SHALL RUN UNSPLICED FROM ANTENNA TO CONTROLLER CABINET.

**POLE LOCATIONS SHOWN ARE APPROXIMATE AND MEASURED FROM ☐ OF RIGGS RD. CONTRACTOR SHALL FIELD VERIFY ALL POLE LOCATIONS AND INSTALL DIRECTLY BACK OF HANDICAP RAMP.

NOTE:
Phase 2 is always Northbound,
regardless of street classification.

PRE-EMPTION (EVP) CHANNELS

EVP Channel A = SB (ø6) = Controller Priority 3
EVP Channel B = WB (ø8) = Controller Priority 4
EVP Channel C = NB (ø2) = Controller Priority 5
EVP Channel D = EB (ø4) = Controller Priority 6



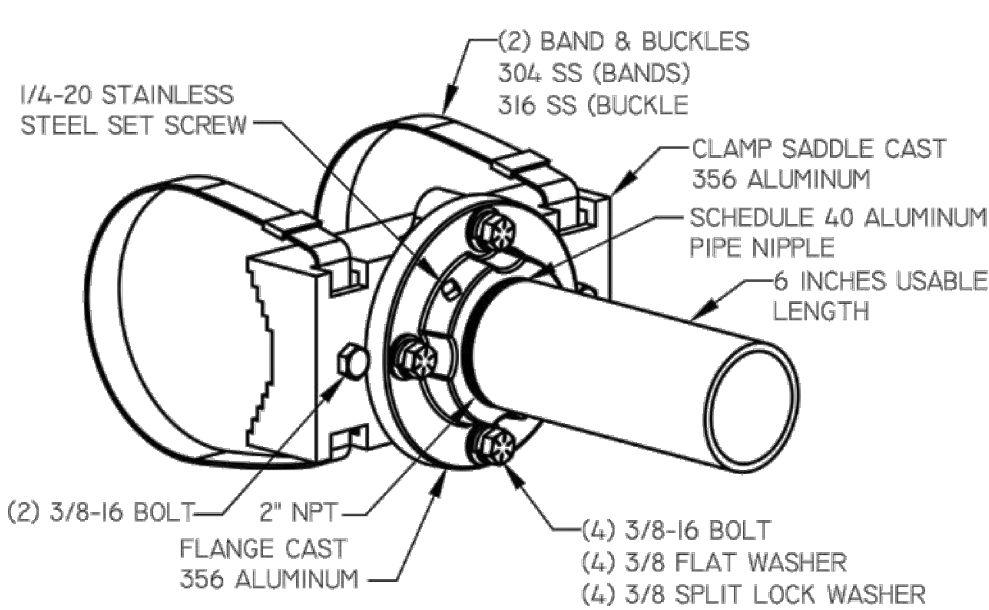
REV. 06/2016



TOWN OF QUEEN CREEK STANDARD DETAIL

STANDARD TRAFFIC SIGNAL AND PRE-EMPTION PHASING

TS-04



| BAND LENGTH | MAST ARM DIA. |
|-------------|---------------|
| 29" | 2" - 7" |
| 42" | 8" - 11" |
| 59" | 12" - 17" |

NOTES:

- YELLOW ZINC DICHROMATE PLATED FASTENERS, STAINLESS STEEL HARDWARE REQUIRED.
- AVAILABLE WITH CABLE STYLE CLAMP.
- STAINLESS STEEL HARDWARE REQUIRED UNLESS STRUCTURAL STEEL NECESSARY AS REQUIRED BY MANUFACTURER.

MAST ARM VIEW OF 1" CHASE NIPPLE

GENERAL NOTES

A 1-1/8" HOLE SHALL BE DRILLED INTO THE SIDE OF THE MAST ARM AT THE APPROPRIATE LOCATION AND THEN TAPPED WITH A 1" PIPE TAP. MAST ARM STRUCTURAL INTEGRITY REQUIRES A STANDARD 1" CHASE NIPPLE SHALL BE INSTALLED IN THE OPENING.

A SKY BRACKET SB-59 TENON CLAMP SHALL BE INSTALLED OVER THE 1" CHASE NIPPLE. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THE SET SCREW SHALL BE SECURELY TIGHTENED AGAINST THE PIPE NIPPLE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. ONCE THE SIGNAL HEAD IS INSTALLED THE 3/8" HOLE FOR THE SAFETY BOLT SHALL BE DRILLED AND THE SAFETY BOLT INSTALLED AND SECURED.



TOWN OF QUEEN CREEK STANDARD DETAIL

MAST ARM SIGNAL MOUNTING

TS-06



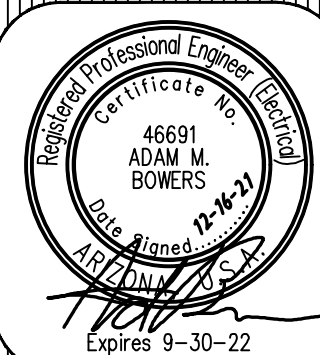
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PROJECT: TITLE:

QUEEN CREEK, ARIZONA
TRAFFIC SIGNAL
CQUSD HIGH SCHOOL 3
TRAFFIC SIGNAL DETAILS

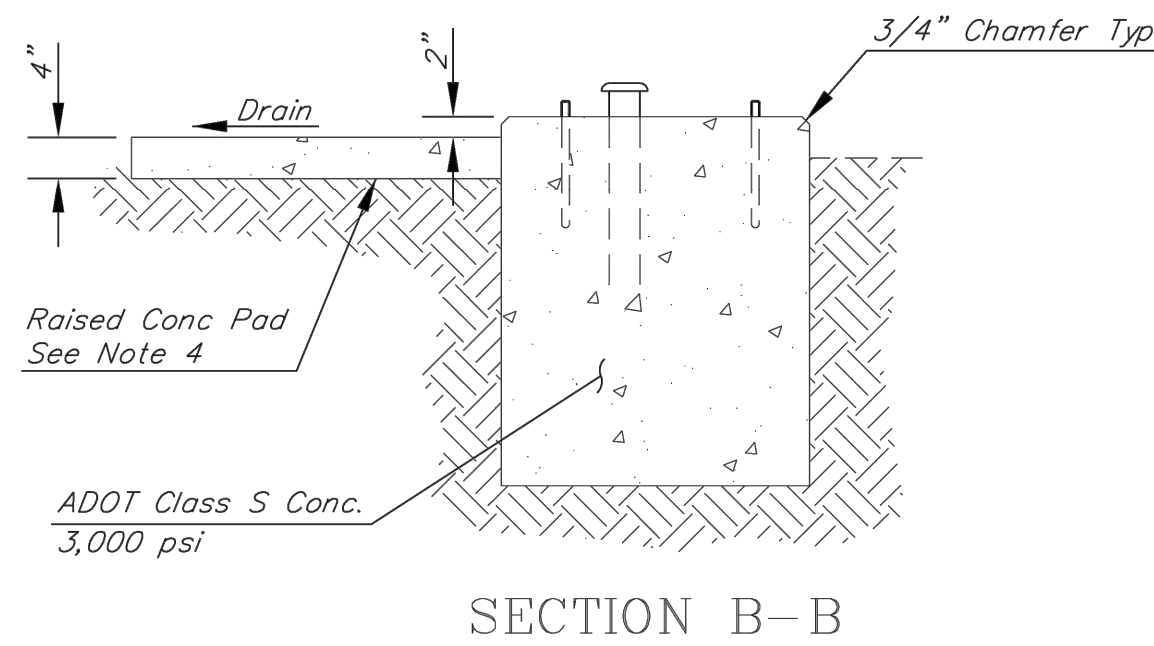
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| 1 | OCT 2021 | 1ST SUBMITTAL |
| 2 | DEC 2021 | 2ND SUBMITTAL |
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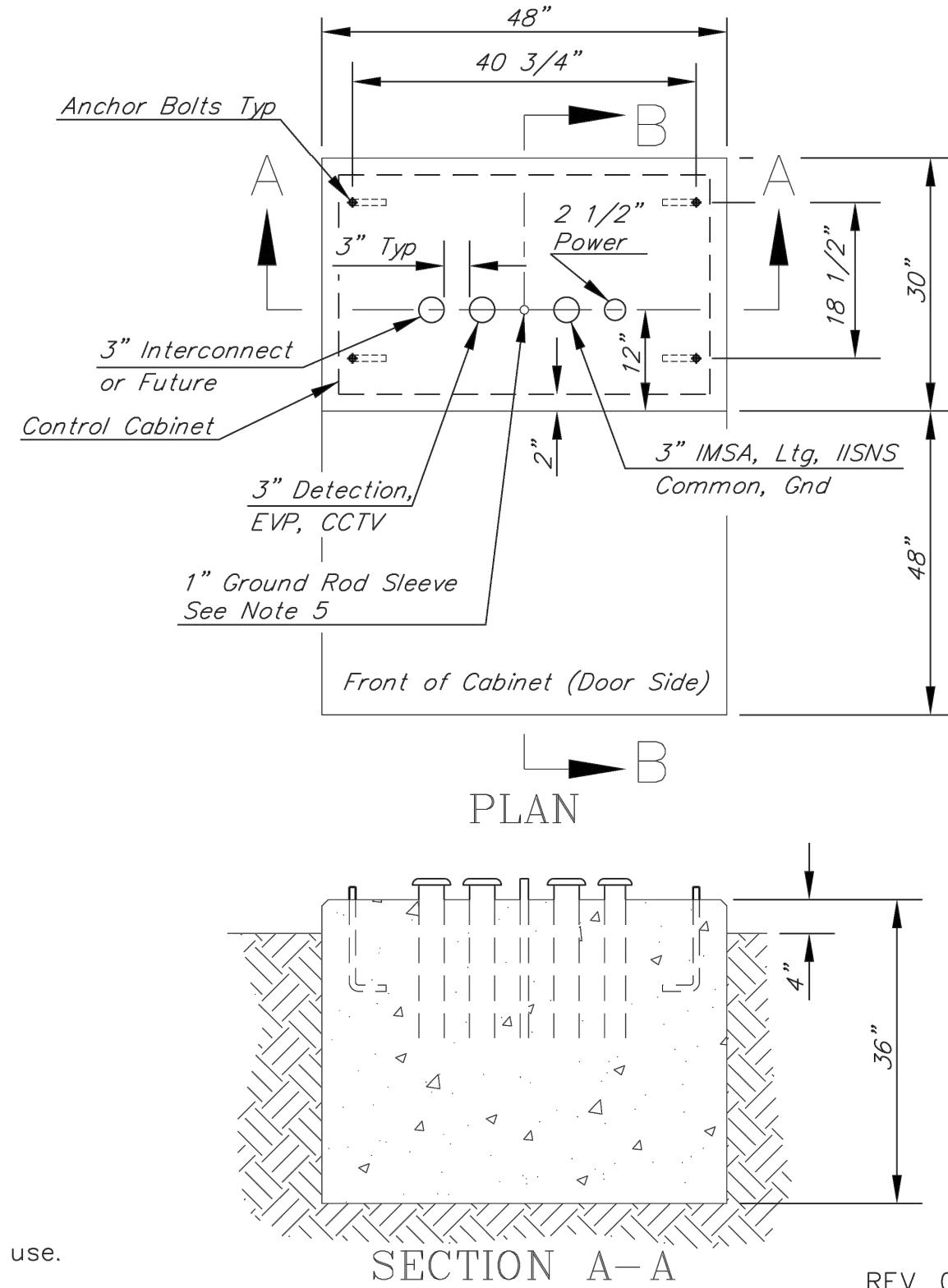
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TS3
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- NOTES:
1. Location of control cabinet foundation shall be approved by the Engineer prior to excavation.
 2. Location of conduit placement within the foundation shall be inspected by the Engineer prior to pouring foundation.
 3. Conduit projection above foundation shall be 2" Min to 4" Max. Conduits shall have bell ends attached prior to conductor installation.
 4. In unpaved areas a raised concrete pad shall be placed in front of the cabinet. The pad shall be set 2" below the foundation elevation. Slope pad away from cabinet at 2% Min. slope.
 5. 1" sleeve (for ground rod) shall be inserted when foundation is poured. Install a 5/8" x 8' long bonded copper rod in 1" sleeve.
 6. Anchor bolts shall be galvanized 3/4"x12"x4" complete with nuts and washers. Anchor bolt projection above foundation shall be 1 1/2" Min. to 2 1/2" Max.
 7. Place an approved silicone RTV type sealer between the cabinet and the foundation. Sealer shall be gray in color or clear.
 8. 3" conduit to be installed for Interconnect, when shown on plans. If interconnect conduit is not called for, install 3" conduit, stubbed out 24" past edge of foundation, in direction selected by Engineer, & cap for future use.



REV. 06/2016

| IMSA CABLE 19-1, #14 AWG, 25-CONDUCTOR | | | | |
|--|----------|-----------------|---------------|-------------------|
| CABLE #1 | CABLE #2 | CONDUCTOR COLOR | | SIGNAL INTERVAL |
| | | BASIC COLOR | TRACER STRIPE | |
| Ø1 | Ø5 | RED | WHITE | RED |
| | | BLACK | WHITE | YELLOW |
| | | GREEN | WHITE | GREEN |
| | | BLACK | WHITE/RED | SPARE |
| Ø2 | Ø6 | RED | --- | RED |
| | | ORANGE | --- | YELLOW |
| | | GREEN | --- | GREEN |
| | | BLACK | RED | RED |
| Ø3 | Ø7 | ORANGE | --- | YELLOW |
| | | BLUE | RED | GREEN |
| | | WHITE | BLACK/RED | SPARE |
| | | RED | BLACK | RED |
| Ø4 | Ø8 | ORANGE | BLACK | YELLOW |
| | | GREEN | BLACK | GREEN |
| | | BLUE | --- | WALK |
| | | WHITE | BLACK | PUSH BUTTON |
| Ø2 PED. | Ø6 PED. | BLACK | --- | DON'T WALK |
| | | WHITE | BLACK | PUSH BUTTON |
| | | BLUE | WHITE | WALK |
| | | RED | GREEN | DON'T WALK |
| Ø4 PED. | Ø8 PED. | WHITE | RED | PUSH BUTTON |
| | | WHITE | --- | P.B. COMMON |
| | | BLUE | BLACK | SPARE |
| | | SPARE | SPARE | RED BLACK/WHITE |
| COMMON | COMMON | SPARE | SPARE | SPARE |
| | | SPARE | SPARE | GREEN BLACK/WHITE |
| | | SPARE | SPARE | SPARE |
| | | SPARE | SPARE | ORANGE GREEN |

| IMSA CABLE 19-1, #14 AWG, 4 & 7-CONDUCTOR | | | |
|---|-----------------|--|-----------------|
| SIGNAL HEADS OUTSIDE MAST ARM & 5-SECTION 7-CONDUCTOR CABLE | | SIGNAL HEADS 3-SECTION 4-CONDUCTOR CABLE | |
| BASIC COLOR | SIGNAL INTERVAL | BASIC COLOR | SIGNAL INTERVAL |
| RED | RED | RED | RED |
| BLACK | YELLOW | BLACK | YELLOW |
| GREEN | GREEN | GREEN | GREEN |
| ORANGE | YELLOW ARROW | WHITE | VEH. COM. |
| BLUE | GREEN ARROW | WHITE | VEH. COM. |
| WHITE | VEH. COM. | WHIT/BLK TR | SPARE |
| PEDESTRIAN HEADS 4-CONDUCTOR CABLE | | PUSH BUTTON 4-CONDUCTOR CABLE | |
| BASIC COLOR | SIGNAL INTERVAL | BASIC COLOR | SIGNAL INTERVAL |
| RED | DON'T WALK | RED | PUSH BUTTON |
| BLACK | SPARE | BLACK | SPARE |
| GREEN | WALK | GREEN | SPARE |
| WHITE | PED. COM | WHITE | P.B. COM. |

| PRE-EMPTION 4-CONDUCTOR CABLE | |
|-------------------------------|--------------|
| BASIC COLOR | CIRCUIT |
| YELLOW | A,B,C,D |
| ORANGE | 26V |
| BLUE | GROUND |
| BARE | EARTH GROUND |

NOTE:
Pre-emption cable shall be M913 Strobecon Detector Cable or approved equal.

REV. 01/2017



TOWN OF QUEEN CREEK STANDARD DETAIL

CONTROL CABINET FOUNDATION DETAIL

TS-01

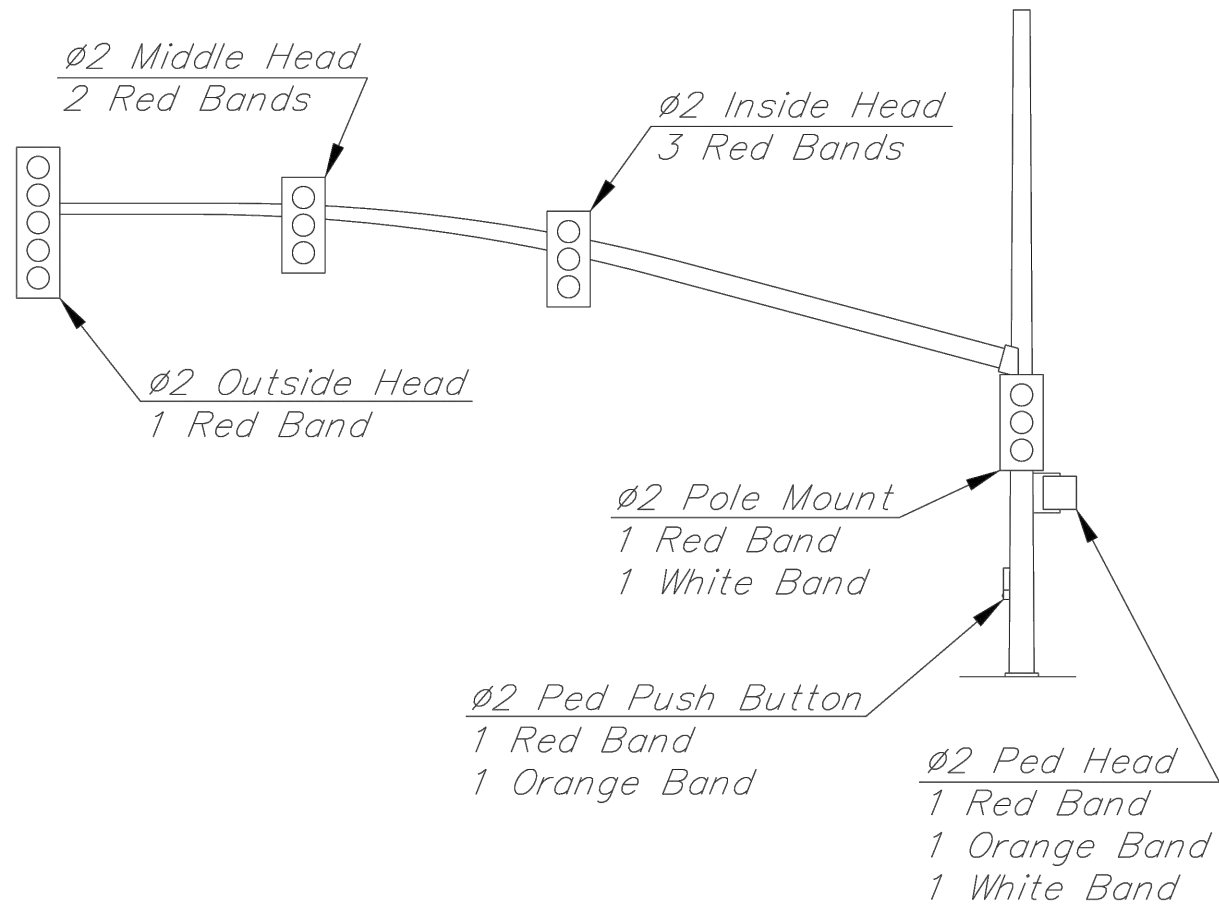


TOWN OF QUEEN CREEK STANDARD DETAIL

TRAFFIC SIGNAL CONDUCTOR COLOR CODING

TS-02

- Phase Colors:
Ø2 (NB)=Red, Ø4 (EB)=Yellow, Ø6 (SB)=Green, Ø8 (WB)=Blue
- 25-Conductor Cables
SE corner to NE corner - Cable 1 = 1 Red Band, Cable 2 = 2 Red Bands
SW corner to SE corner - Cable 1 = 1 Yellow Band, Cable 2 = 2 Yellow Bands
NW corner to SW corner - Cable 1 = 1 Green Band, Cable 2 = 2 Green Bands
NE corner to NW corner - Cable 1 = 1 Blue Band, Cable 2 = 2 Blue Bands
- Mast Arm Signal Heads
Outermost head = 1 band of through phase color. (No Lt Turn tape.)
Apply one additional band of phase color for each additional head, heading toward the support pole.
- Pole-Mounted Items
Signal Heads
1 band of through phase color plus 1 band of white. (No Lt Turn tape.)
Pedestrian Heads
1 band of phase color plus 1 band of white and 1 band of orange.
Ped Push Buttons
1 band of phase color plus 1 band of orange.
- Other
* Place 1 band of phase color on pre-emption and video detection cables in each pull box.
* 1 red band on luminaire conductors in each pull box.
* 1 brown band on illuminated street name sign conductors in each pull box.



TAPING EXAMPLE - USING Ø 2
Note: Phase 2 uses RED as its "phase color" for cable tapes

REV. 06/2016



TOWN OF QUEEN CREEK STANDARD DETAIL

TRAFFIC SIGNAL CONDUCTOR CABLE TAPE COLOR CODING

TS-03

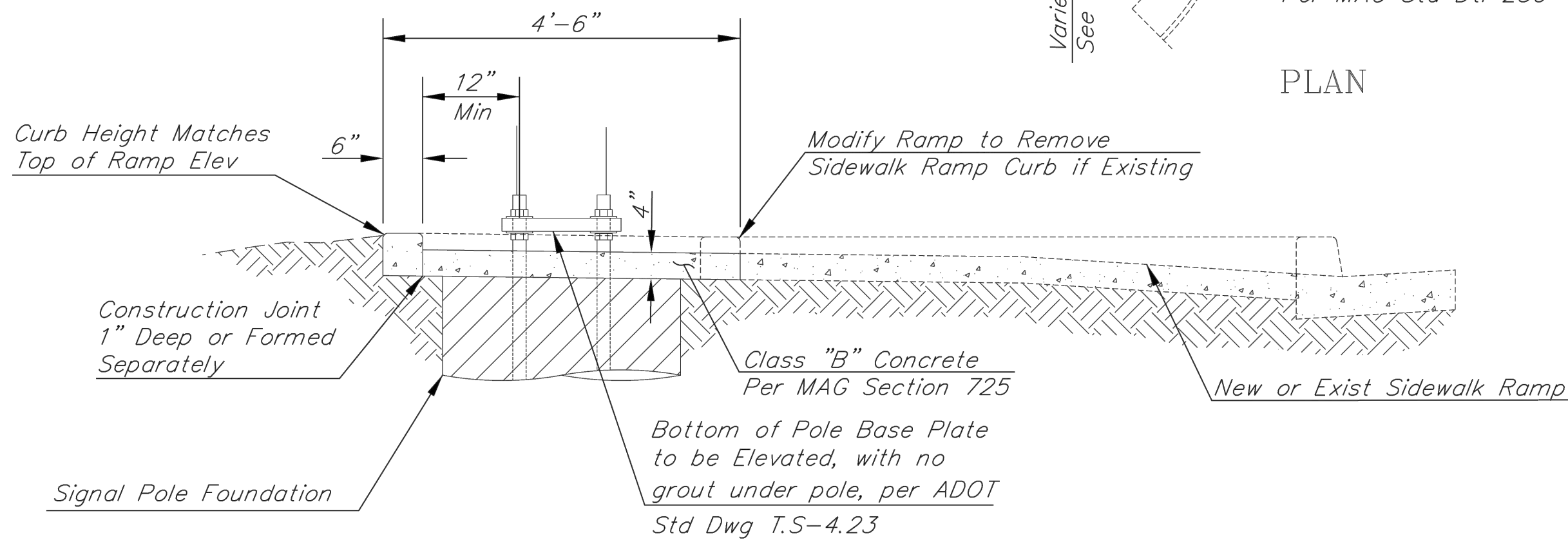


TOWN OF QUEEN CREEK STANDARD DETAIL

SIDEWALK RAMP APRON FOR TRAFFIC SIGNAL POLES

TS-05

NOTE:
Concrete Apron Location is Controlled by the Location of the Signal Pole Foundation. Apron Adjustments May be Necessary to Accommodate Pole Foundation Location and Orientation. Changes are Considered Incidental to this Item.



SECTION A-A

REV. 06/2016

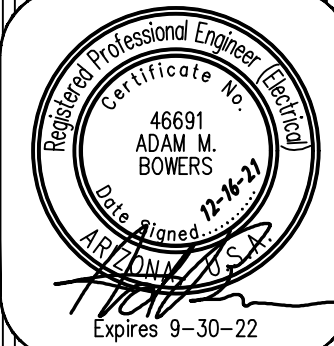
WRIGHT ENGINEERING
PROJECT NO:
21558
DESIGN BY: MRS
DRAWN BY: MRS
CHECKED BY: AMB

WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
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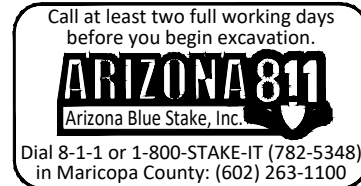
PROJECT: TITLE:

QUEEN CREEK, ARIZONA
TRAFFIC SIGNAL
CQUSD HIGH SCHOOL 3
TRAFFIC SIGNAL DETAILS

| NO. | DATE | SUBMITTALS/REVISIONS (DESCRIPTIONS) |
|-----|----------|-------------------------------------|
| 1 | OCT 2021 | 1ST SUBMITTAL |
| 2 | DEC 2021 | 2ND SUBMITTAL |



DRAWING NO:
TS4
OF 4



HA\2021\21558-CQUSD High School 3 SL TS\21558-TS.dwg