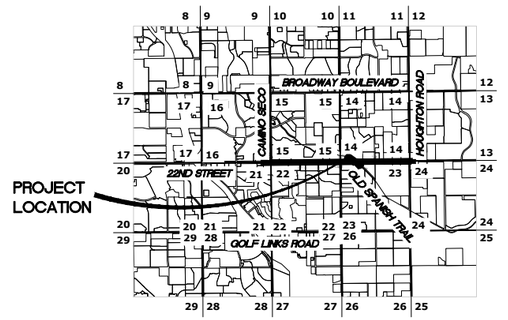
CITY OF TUCSON

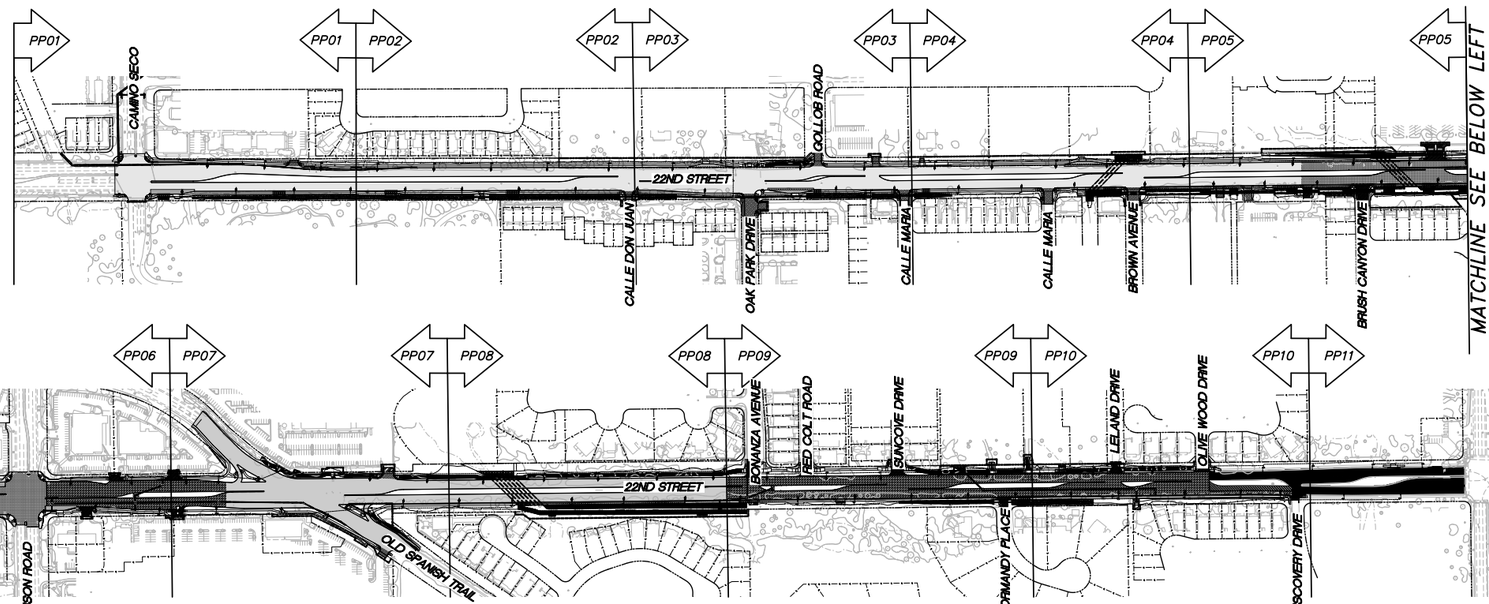
CITY OF TUCSON, ARIZONA
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
C.O.T. JOB NO. SR20
COT PLAN NUMBER: I-2025-004

PROPOSED PROJECT BEGINS APPROXIMATELY AT CAMINO SECO AND ENDS 500-FEET WEST OF HOUGHTON ROAD. THE PURPOSE OF THIS 1.9 MILES IMPROVEMENT PROJECT IS TO DESIGN THE WIDENING OF 22ND STREET TO A FOUR LANE ARTERIAL WITH A RAISED MEDIAN, BICYCLE LANES, SIDEWALKS, STREET LIGHTING, AND LANDSCAPING IMPROVEMENTS BETWEEN CAMINO SECO AND HOUGHTON ROAD.



LOCATION MAP

T14S; R15E; S13,14,15,16,21,22,23,24
GILA AND SALT RIVER MERIDIAN
PIMA COUNTY, ARIZONA
SCALE: 1"=1 MILE



0 250' 500'
SCALE: 1"=250'

Constructed by:

_____
Construction Company

_____
Completion Date

Red-Lines by:

_____
Construction Administrator Name & Company

_____
Completion Date

Record Document by:

_____
Record Drawing Designer Name & Company

_____
Completion Date

ORIGINAL SIZE 24"x36"
DO NOT SCALE
A REDUCED SIZE

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Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PCRWRD #UPC-2024-171

CV01

DEPARTMENT OF TRANSPORTATION AND MOBILITY - ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT

Kimley»Horn
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CITY OF TUCSON

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

Approvals	Signatory	Date
DESIGN SECTION/PERMITS AND CODES		
TRAFFIC ENGINEERING		
STREETS AND TRAFFIC MAINTENANCE		
ENGINEERING LANDSCAPE ARCH		
ENGINEERING ADMINISTRATOR		

DRWN. BY A. GARDNER 20 25 CHKD. BY D. BACON 20 25 APPR. BY T. RHINE 20 25

Approved _____ 20__
TRANSPORTATION DIRECTOR

1 OF 316

REF. _____ SCALE: N/A

PLAN NO. I-2025-004

K:\TUC_Roadway\08134220_COT 22nd Street\CAD\Sheet Files\134220cv.dwg, Aug 21, 2025 - Cipriano.DeLuna
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CONSTRUCTION GENERAL NOTES:

1. ALL CONSTRUCTION AND TEST METHODS SHALL BE IN CONFORMANCE WITH PIMA ASSOCIATION OF GOVERNMENTS (PAG) STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC IMPROVEMENTS, 2015 EDITION AND ANY AMENDMENTS THERETO. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH PAG STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, 2015 EDITION, EXCEPT AS MODIFIED HEREBY.
2. ASPHALT CONCRETE SHALL CONFORM TO PAG SSPI SECTION 406, DATED DECEMBER 18TH, 2019 WHICH CAN BE FOUND ON PAG'S WEBSITE.
3. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
4. CONTRACTOR MUST OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES BEFORE UNDERTAKING ANY GRADING OR CONSTRUCTION WORK OF ANY TYPE WITHIN THE PUBLIC RIGHT-OF-WAY.
5. A SEALED AND APPROVED SET OF THESE PLANS SHALL BE KEPT IN AN EASILY ACCESSIBLE LOCATION ON THE SITE AT ALL TIMES DURING CONSTRUCTION.
6. UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRICADES AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 2009 (MUTCD 2009).
7. UTILITY LOCATIONS SHOWN ON THESE PLANS WERE COMPILED BASED ON PROJECT SURVEY AND MAPPING RECEIVED FROM UTILITY PROVIDERS. UTILITY LOCATIONS WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION. UTILITY LOCATIONS ARE NOT INTENDED TO BE EXACT OR COMPLETE. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE ORGANIZATIONS. CONTACT "ARIZONA 811" AT 1-800-782-5348 TWO FULL WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
8. THE CONTRACTOR SHALL FIELD-VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF ACTUAL LOCATIONS DIFFER FROM THOSE SHOWN ON THE PLANS.
9. ALL STATIONING IS ALONG THE ROADWAY CONSTRUCTION CENTERLINE.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SAFE AND REASONABLE ACCESS FOR PEDESTRIANS. IF PEDESTRIANS MUST BE DETOURED AROUND THE CONSTRUCTION SITE, THE DETOUR SHALL BE CLEARLY IDENTIFIED AND UNDERSTANDABLE TO THE USER. IF PEDESTRIANS ARE FORCED TO CROSS A STREET BECAUSE OF A DETOUR THEY SHALL BE DIRECTED TO A LOGICAL PEDESTRIAN CROSSING. ACCESS SHALL BE APPROVED BY THE CITY REPRESENTATIVE PRIOR TO IMPLEMENTATION AND MUST COMPLY WITH THE AMERICANS WITH DISABILITY ACT (ADA).
11. SUBGRADE PREPARATION BENEATH THE CURB, SIDEWALK, AND ROADWAY SHALL BE COMPACTED TO 95% MAXIMUM DENSITY PER PAG SPECIFICATION SECTION 205.
12. THE CONTRACTOR SHALL IMPLEMENT GOOD HOUSEKEEPING FOR STORM WATER POLLUTION PREVENTION PRACTICES ON-SITE DURING THE COURSE OF CONSTRUCTION. GOOD HOUSEKEEPING PRACTICES INCLUDE, BUT ARE NOT LIMITED TO: STREET SWEEPING, PERIMETER STOCKPILE CONTROLS, SOLID WASTE MANAGEMENT, EQUIPMENT MAINTENANCE PROCEDURES, CONCRETE WASHOUTS, SPILL PREVENTION, AND STORM DRAIN INLET PROTECTION.
13. ANY EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM PROJECT SITE BY THE CONTRACTOR.
14. THE CONTRACTOR SHALL NOT DAMAGE NATURAL GROWTH WITHIN PRIVATE PROPERTY. ALL WORK SHALL BE DONE WITHIN EASEMENTS, ROADWAYS, AND ALLEYS.
15. REMOVAL OF CACTI AND OTHER NATIVE PLANTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE ARIZONA NATIVE PLANT LAW, SRS CHAPTER 7, JANUARY 1991.
16. ALL SAW CUTTING OF EXISTING ASPHALT PAVEMENT SHALL BE CONSIDERED INCIDENTAL AND INCLUDED WITHIN THE CONSTRUCTION COSTS FOR ACCESS RAMPS, DRIVEWAY APRONS, SIDEWALKS, AND CURB. IN ALL CASES WHEN MATCHING EXISTING PAVEMENT THE CONTRACTOR SHALL SAW CUT A ONE (1) FOOT (UNLESS OTHERWISE NOTED) NEAT EDGE AND TACK THE EXISTING PAVEMENT PRIOR TO JOINING THE NEW PAVEMENT.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND MAINTENANCE OF EXISTING IMPROVEMENTS AND VEGETATION IN THE WORK AREA. PAVEMENT, CURBS, CURB ACCESS RAMPS, WALLS, SIGNS, FENCING, AND ANY OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION ARE TO BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY. ANY UNDERGROUND PIPES, IRRIGATION LINES, IRRIGATION CONTROLS, DRAINS, STRUCTURES, OR OBSTRUCTIONS DESIGNATED ON THE PLANS AS TO REMAIN SHALL BE MOVED, ALTERED, OR REPAIRED BY THE CONTRACTOR WHEN ENCOUNTERED, AS DIRECTED BY THE CITY'S REPRESENTATIVE, AND SHALL BE CONSIDERED INCIDENTAL. ALL REPAIR, REPLACEMENT, OR CLEANUP SHALL BE DONE TO THE SATISFACTION OF THE CITY'S REPRESENTATIVE.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, HAUL, AND APPLY ALL WATER REQUIRED FOR COMPACTION AND FOR THE CONTROL OF DUST FROM CONSTRUCTION ACTIVITY. THE COST THEREOF IS TO BE INCLUDED IN THE APPROPRIATE BID ITEM(S) PRICE(S).
19. INSPECTION BY THE CITY OR THE CITY'S REPRESENTATIVE OF THE WORK CALLED FOR ON THE PLANS SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR AND/OR HIS/HER SUB CONTRACTORS OF THEIR OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, CODES, AND ANY OTHER APPLICABLE REGULATIONS PERTAINING THERETO.
20. THE CONTRACTOR SHALL OPERATE IN A MANNER COMPLIANT WITH ALL APPLICABLE REGULATIONS OF THE CITY, COUNTY, STATE, AND FEDERAL GOVERNMENT.
21. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR SUBCONTRACTOR.
22. QUANTITIES AS SHOWN ON THE BID SCHEDULE ARE ESTIMATED AND THE CONTRACTOR IS ADVISED THAT THE FINAL QUANTITIES OF MATERIALS AND WORK IN PLACE MAY DIFFER FROM THOSE INDICATED IN THE BID SCHEDULE.

CONSTRUCTION GENERAL NOTES (CONT.):

23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE ARIZONA REGISTERED LAND SURVEYOR PROVIDING THE CONSTRUCTION LAYOUT TO VERIFY THE BENCHMARKS AND COMPARE THE SITE CONDITIONS WITH THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE OF ANY DISCREPANCIES OBSERVED SHOULD ANY BENCHMARK, GRADE, OR DESIGN INDICATED ON THE PLANS BE SUSPECT. THE CITY'S REPRESENTATIVE SHALL BE NOTIFIED OF SAID BENCHMARK, GRADE, OR DESIGN PROBLEM AT LEAST TWENTY FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN IN THE AFFECTED AREA.
24. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. SHOULD CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CITY'S REPRESENTATIVE SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK.
25. ALL ELEVATIONS, ALIGNMENTS, AND DISTANCES GIVEN SHALL BE VERIFIED BY AN ARIZONA REGISTERED LAND SURVEYOR BEFORE CONSTRUCTION.
26. AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND MAILBOXES, AND ONE THROUGH LANE IN EITHER DIRECTION.
27. THE CONTRACTOR SHALL CALL CITY DEPARTMENT OF TRANSPORTATION AND MOBILITY LANDSCAPE ARCHITECT , DAVID MARHEFKA (520-403-5074). PRIOR TO DISTURBANCE OR REMOVAL OF LANDSCAPE PLANTS OR IRRIGATION EQUIPMENT NOT SHOWN ON THESE PLANS.
28. ACCESS SHALL BE PROVIDED TO ALL BUSINESSES, RESIDENCES, AND SIDE STREETS AT ALL TIMES EXCEPT WHEN APPROVED BY THE ENGINEER.
29. THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS AND REQUESTS BY THE ENGINEER REGARDING DUST POLLUTION.
30. WATER FACILITIES EXIST IN THE VICINITY OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING AND PROTECTING ALL WATER FACILITIES DURING THE COURSE OF PERFORMING THE WORK. ANY DAMAGE TO WATER FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE. THE CONTRACTOR SHALL NOTIFY TUCSON WATER AT 520-791-4133 IN THE EVENT OF DAMAGE TO TUCSON WATER FACILITIES.
31. ALL CHANGES TO THESE PLANS MUST BE CLEARED BY THE CITY OF TUCSON CITY ENGINEER'S PERMITS AND CODES SECTION, PRIOR TO CONSTRUCTION.
32. THE ENGINEER OF RECORD SHALL SUBMIT TO THE CITY FOR REVIEW ANY CHANGES TO THE APPROVED PLANS PRIOR TO CONSTRUCTION. ADDITIONALLY, THE ENGINEER OF RECORD SHALL CERTIFY ALL CHANGES MEETING ALL APPLICABLE STANDARDS, CODES, AND ORDINANCES.
33. AN EXCAVATION PERMIT SHALL BE OBTAINED FROM THE CITY OF TUCSON TRANSPORTATION DEPARTMENT PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
34. A PRE-CONSTRUCTION FIELD MEETING SHALL BE CONDUCTED WITH THE CITY OF TUCSON TRANSPORTATION INSPECTOR PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
35. THE EXTENT AND TYPE OF SURFACE TREATMENTS/REPAIRS INDICATED ON THE PLANS MAY NOT BE ALL INCLUSIVE OF THE WORK THAT IS NEEDED. ADDITIONAL REPAIRS, PAVING, OR REPLACEMENT MAY BE NEEDED DEPENDING ON FIELD CONDITIONS.
36. THE CONTRACTOR SHALL CONTACT AND/OR COORDINATE ANY WORK WITH COT STREETS & TRAFFIC MAINTENANCE DIVISION, ELECTRIC SHOP 520-791-3154 PRIOR TO RELOCATION OR PLACEMENT OF ANY STREET LIGHTING OR TRAFFIC FACILITIES. CONTACT ROGER KESTLER AT 520-837-6805 FOR STREET LIGHTING/TRAFFIC SIGNAL PLAN REVIEW.
37. PAVEMENT SECTION DESIGN DOCUMENTATION, ARE IN ACCORDANCE TO THE APPROVED GEOTECHNICAL REPORT BY NINYO AND MOORE.
38. THE CONTRACTOR WILL NEED TO REMOVE THE EXISTING SHELTERS, BENCHES, AND TRASH RECEPTACLES FOR ANY BUS STOPS IN THE DEMOLITION LIMITS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT SUN TRAN STAFF (BRIAN CONTE AND/OR DAVITA MUELLER) TO ARRANGE DROP OFF THE SHELTERS AND ACCESSORIES IN THE SUN TRAN (CITY OF TUCSON) STORAGE YARD. THE CONTRACTOR SHALL CONTACT ANTONIO TUCCINO (SUN TRAN) TO PLACE TEMPORARY BUS STOP LOCATIONS DURING CONSTRUCTION AND MUST FOLLOW THE PUBLIC RIGHTS-OF-WAY GUIDELINES (PROWAG) AND AMERICANS WITH DISABILITY ACT (ADA).
39. SWG HAS VALVES WITHIN THE PROJECT AREA THAT MAY NEED TO BE PROTECTED AND ADJUSTED TO THE FINAL GRADE. THE CONTRACTOR MUST CONTACT SWG FOR ADJUSTING VALVES AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION BY CALLING (520) 794-6208.

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XREFS: x134220dr

Kimley»Horn
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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
GENERAL NOTES

CITY OF TUCSON

DRWN. BY A. GARDNER AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

BASIS OF SURVEY:

HORIZONTAL CONTROL: THIS PROJECT IS BASED UPON THE ARIZONA COORDINATE SYSTEM, 1983 (ACS 83), NAD83 (2011) (2010.0000) REFERENCE FRAME, USES INTERNATIONAL FEET, AND IS LOCATED IN THE CENTRAL ZONE OF SAID COORDINATE SYSTEM. THE CONTROL NETWORK WAS SURVEYED BY PSOMAS IN JUNE 2024 UTILIZING STATIC AND RTK GPS AND INCORPORATED THE FOLLOWING CONTROL POINTS:

STATION	(REFERENCE)	
L13	CITY OF TUCSON CP	
L15	CITY OF TUCSON CP	
L17	CITY OF TUCSON CP	
N11	CITY OF TUCSON CP	
N13	CITY OF TUCSON CP	
N17	CITY OF TUCSON CP	*CENTRAL POINT
N19	CITY OF TUCSON CP	
N22	CITY OF TUCSON CP	
N23	CITY OF TUCSON CP	
NN32	CITY OF TUCSON CP	
P15	CITY OF TUCSON CP	
P17	CITY OF TUCSON CP	
P19	CITY OF TUCSON CP	
P21	CITY OF TUCSON CP	

SURFACE COORDINATES AND/OR DISTANCES WERE COMPUTED FROM THE ACS 83 COORDINATES BY APPLYING A PROJECT SPECIFIC GRID TO SURFACE COMBINED ELEVATION AND SCALE FACTOR (CF) OF 1.0000889929 FROM A CENTRAL POINT (N17):

NP LOC = (NP ACS83 – NCP ACS83) * CF + NCP ACS83 –(K)

EP LOC = (EP ACS83 – ECP ACS83) * CF + ECP ACS83 – (K)

WHERE NP LOC = LOCAL NORTH NP ACS83 = ACS 83 NORTH NCP ACS83 = ACS 83 AT CENTRAL POINT EP LOC = LOCAL EAST EP ACS83 = ACS 83 EAST ECP ACS83 = ACS 83 AT CENTRAL POINT

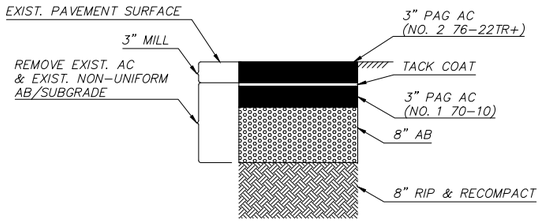
NCP ACS83= 440620.75 (ACS83)
ECP ACS83= 1048554.23 (ACS83)
COMBINED FACTOR (CF) = 1.0000889929
CONSTANT (K) = N 0.000, E 0.000

BASIS OF BEARINGS: THE BASIS OF BEARINGS FOR THIS SURVEY IS THE SOUTH LINE OF THE SOUTHWEST ONE–QUARTER OF SECTION 14, TOWNSHIP 14 SOUTH, RANGE 15 EAST OF THE G&SRM, PIMA COUNTY, ARIZONA, BEING MONUMENTED BY A 2"BRASS CAP STAMPED "RLS 23956"IN HANDHOLE AT THE SOUTHWEST CORNER OF SAID SECTION 14 AND A 2"BRASS CAP STAMPED "LS 25086"IN CONCRETE AT THE SOUTH ONE–QUARTER CORNER OF SAID SECTION 14, HAVING A BEARING OF N 89°22'57"EAST AND A DISTANCE OF 2629.81 FEET.

VERTICAL CONTROL: THE VERTICAL DATUM FOR THIS PROJECT IS THE NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88). THE BENCH MARKS INCORPORATED IN THIS SURVEY ARE:

STATION	REFERENCE	ELEVATION	
L13	CITY OF TUCSON CP	2680.69	
L15	CITY OF TUCSON CP	2712.09	
L17	CITY OF TUCSON CP	2746.46	
N11	CITY OF TUCSON CP	2649.62	
N13	CITY OF TUCSON CP	2694.14	
N17	CITY OF TUCSON CP	2771.72	*BASIS OF ELEVATION
N19	CITY OF TUCSON CP	2805.34	
N22	CITY OF TUCSON CP	2845.70	
N23	CITY OF TUCSON CP	2892.63	
P15	CITY OF TUCSON CP	2725.84	
P17	CITY OF TUCSON CP	2788.44	
P19	CITY OF TUCSON CP	2837.21	
P21	CITY OF TUCSON CP	2861.41	

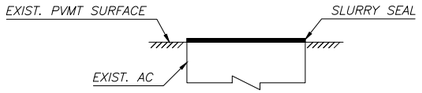
NOTE: ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE DERIVED FROM GPS ELLIPSOID HEIGHT MEASUREMENTS AND THE APPLICATION OF A HIGH–RESOLUTION HYBRID GEOID MODEL, GEOID 18.



TOTAL PAVEMENT THICKNESS = 14"

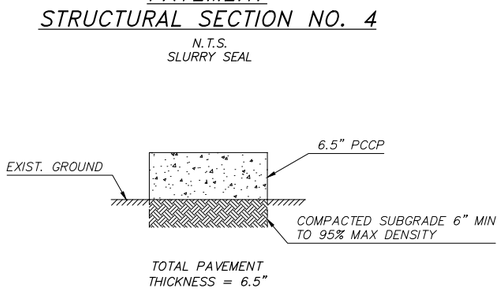
PAVEMENT STRUCTURAL SECTION NO. 1

N.T.S.
22ND STREET – CAMINO SECO TO HARRISON ROAD



PAVEMENT STRUCTURAL SECTION NO. 4

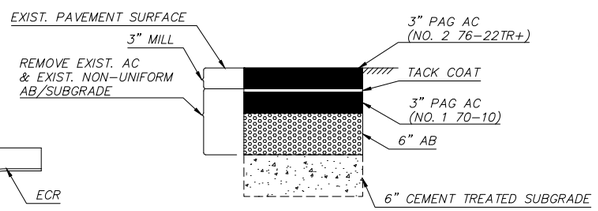
N.T.S.
SLURRY SEAL



TOTAL PAVEMENT THICKNESS = 6.5"

PAVEMENT STRUCTURAL SECTION NO. 7

N.T.S.
DRIVEWAY 18



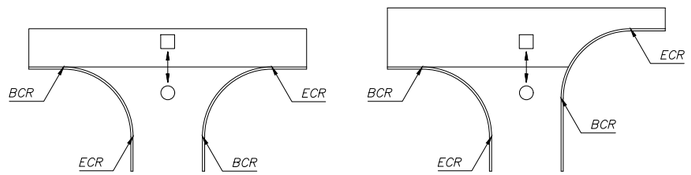
TOTAL PAVEMENT THICKNESS = 12"

PAVEMENT STRUCTURAL SECTION NO. 10

N.T.S.
22ND STREET – HARRISON ROAD TO HOUGHTON ROAD
OLD SPANISH TRAIL

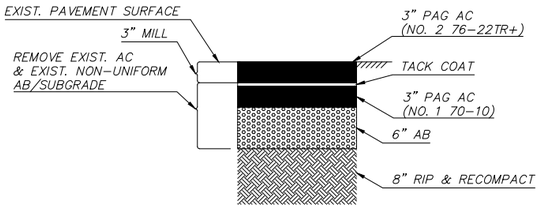
PAVEMENT STRUCTURAL SECTION HATCHING LEGEND:

PSS NO. 1 | PSS NO. 2 | PSS NO. 3
PSS NO. 4 | PSS NO. 5 | PSS NO. 6
PSS NO. 7 | PSS NO. 8 | PSS NO. 9
PSS NO. 10 | PSS NO. 11



SIDESTREET AND DRIVEWAY PAVEMENT TRANSITION DETAILS

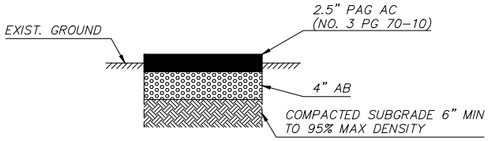
□ 22ND STREET PAVEMENT SECTION
○ SIDESTREET/DRIVEWAY PAVEMENT SECTION



TOTAL PAVEMENT THICKNESS = 12"

PAVEMENT STRUCTURAL SECTION NO. 2

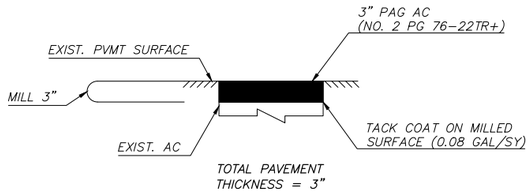
N.T.S.
22ND STREET – HARRISON ROAD TO HOUGHTON ROAD
OLD SPANISH TRAIL



TOTAL PAVEMENT THICKNESS = 6.5"

PAVEMENT STRUCTURAL SECTION NO. 5

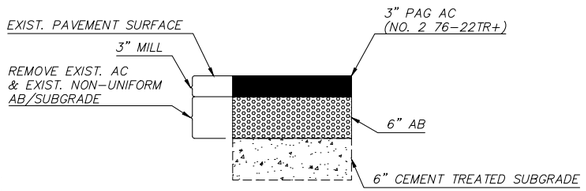
N.T.S.
PATHWAY



TOTAL PAVEMENT THICKNESS = 3"

PAVEMENT STRUCTURAL SECTION NO. 8

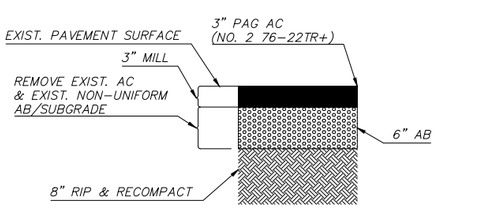
N.T.S.
22ND STREET – OLIVE WOOD DRIVE TO DISCOVERY DRIVE
STA. 145+37.13 TO 148+35.63



TOTAL PAVEMENT THICKNESS = 9"

PAVEMENT STRUCTURAL SECTION NO. 11

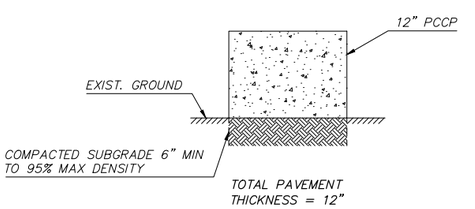
N.T.S.
SIDEROADS
DRIVEWAYS



TOTAL PAVEMENT THICKNESS = 9"

PAVEMENT STRUCTURAL SECTION NO. 3

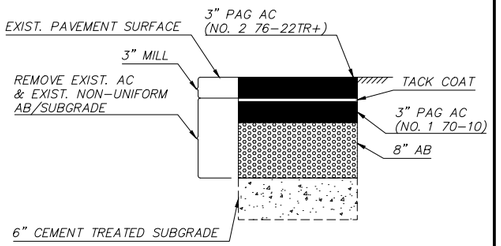
N.T.S.
SIDEROADS
DRIVEWAYS



TOTAL PAVEMENT THICKNESS = 12"

PAVEMENT STRUCTURAL SECTION NO. 6

N.T.S.
BUS PULLOUTS



TOTAL PAVEMENT THICKNESS = 14"

PAVEMENT STRUCTURAL SECTION NO. 9

N.T.S.
22ND STREET – CAMINO SECO TO HARRISON ROAD

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
GENERAL NOTES

CITY OF TUCSON

DRWN. BY A. GARDNER AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

GN02 OF GN03

3 OF 316

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XREFS: x134220dr

GENERAL SEWER NOTES:

1. ALL DESIGN STANDARDS, MATERIAL AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE 2022 PCRWRD ENGINEERING DESIGN STANDARDS AND THE 2022 PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. SAID DOCUMENTS ARE AVAILABLE THROUGH THE PCRWRD WEBSITE (WWW.PIMA.GOV/WASTEWATERRECLAMATION).

2. THE CONTRACTOR SHALL CONTACT "ARIZONA 811"(DIAL 811 OR 1-800-782-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL KEEP ALL UNDERGROUND FACILITY LOCATION REQUESTS UP-TO-DATE AND COMPLY WITH ARIZONA REVISED STATUTES (A.R.S) TITLE 40, CHAPTER 1, ARTICLE 6.3, SECTION 40-360.22. CONCERNS REGARDING THE ACCURACY BETWEEN THE UNDERGROUND FACILITY MARKINGS AND THE PROJECT PLANS SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER. THE CONTRACTOR SHALL VERIFY ALL PCRWRD MANHOLES AND CLEANOUTS LISTED IN THE PROJECT DOCUMENTS HAVE BEEN IDENTIFIED BY BLUE STAKE. CONTACT THE PCRWRD FIELD ENGINEERING OFFICE AT (520) 724-2651 IF ADDITIONAL ASSISTANCE IS REQUIRED IN LOCATING MANHOLES AND CLEANOUTS.

3. THE CONTRACTOR SHALL ALWAYS MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AND CLEANOUTS.

4. ANY HOUSE CONNECTION SEWERS (HCS) OR BUSINESS CONNECTION SEWERS (BCS) LINES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REROUTED, AS THE SITUATION DICTATES, PER PCRWRD SSDC, DETAIL NO. RWRD 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR PCRWRD. HCS AND BCS LINES ARE NOT OWNED OR MAINTAINED BY PCRWRD. PRIVATE CONNECTION SEWERS CONSTRUCTED PRIOR TO JANUARY 2006 ARE NOT REQUIRED TO BE LOCATED AND MARKED, BY BLUE STAKE STAFF.

5. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO PCRWRD OPERATIONS CONTROL CENTER (OCC) AT (520) 724-6047. ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE DROPPING OF DEBRIS INTO A PUBLIC SANITARY SEWER MANHOLE. A PCRWRD REPRESENTATIVE WILL BE DISPATCHED TO THE SITE. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CONTAIN A SANITARY SEWAGE OVERFLOW (SSO). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, MITIGATE THE RELEASE OF SEWAGE, DISINFECT THE RELEASE AREAS, AND ANY REGULATORY PENALTIES LEVIED ON PCRWRD FOR SEWAGE ENTERING A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE PCRWRD FIELD REPRESENTATIVE.

6. MODIFICATION TO OR ADJUSTMENT OF EXISTING PIMA COUNTY SEWER FACILITIES SHALL NOT COMMENCE UNTIL: A) THE CONTRACTOR HAS OBTAINED A PCRWRD PUBLIC SEWER CONSTRUCTION PERMIT (PERMIT APPLICATION AVAILABLE BY GOING TO HTTPS://WEBCMS.PIMA.GOV/GOVERNMENT/WASTEWATERRECLAMATION/PERMITS/); B) THE CONTRACTOR'S FLOW MANAGEMENT PLAN, IF REQUIRED, HAS BEEN SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING AND APPROVED BY PCRWRD FIELD ENGINEERING; C) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR IS SCHEDULED AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO COMMENCING WITH SEWER CONSTRUCTION.

7. THE CONTRACTOR SHALL SUBMIT A FLOW MANAGEMENT PLAN (FMP) TO PCRWRD FIELD ENGINEERING FOR APPROVAL BEFORE PROCEEDING WITH ANY WORK THAT MAY AFFECT LIVE SEWERS. THE FMP SHALL IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE CONSTRUCTION BID. THE FMP SHALL BE SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE SEWER PRE-CONSTRUCTION MEETING. FIELD ENGINEERING WILL REVIEW THE FMP WITHIN TEN (10) BUSINESS DAYS TO ACCOMMODATE REVIEW AND REVISION CYCLES. REFER TO PCRWRD SSDC, SECTION 2 FOR FMP REQUIREMENTS. PLEASE CONTACT PCRWRD FIELD ENGINEERING AT (520) 724-2651 FOR ANY QUESTIONS REGARDING FLOW MANAGEMENT.

8. AS-BUILT PLANS SHALL CONFORM TO PCRWRD SSDC, SECTION 1.4.7 AND ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY PCRWRD.

9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTINUOUSLY MAINTAIN STORM WATER AND SEDIMENT CONTROL MEASURES THAT PROTECT PCRWRD FACILITIES UNDER ALL CONDITIONS FOR THE DURATION OF THE PROJECT. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ALLOW STORM WATER, SEDIMENT, OR POTENTIAL POLLUTANTS FROM A CONSTRUCTION SITE TO ENTER A PCRWRD MANHOLE. THE CONTRACTOR SHALL ENSURE THAT THEIR FLOW MANAGEMENT OPERATIONS INCLUDE CONTROLS TO PREVENT ANY INTRODUCTION OF STORM WATER, SEDIMENT, OR POLLUTANTS INTO THE PUBLIC SANITARY SEWER SYSTEM. FAILURE TO CONFORM TO THESE REQUIREMENTS SHALL RESULT IN CANCELLATION OF THE SEWER CONSTRUCTION PERMIT.

10. PRIOR TO THE PRE-CONSTRUCTION MEETING WITH PCRWRD, THE CONTRACTOR SHALL IDENTIFY ALL EXISTING SANITARY SEWER MANHOLE AND CLEANOUT COVERS HAVING FOREIGN MATERIALS ATTACHED. FOREIGN MATERIALS SHALL BE REMOVED FROM THE EXISTING MANHOLE AND CLEANOUT COVERS REGARDLESS OF EXISTING OR NEW CONDITIONS. IF BUILD UP IS TOO HEAVY TO BE REMOVED, THE CONTRACTOR SHALL REPLACE THE MANHOLE/CLEANOUT FRAME AND COVER AND SALVAGED ITEMS SHALL BE DELIVERED TO PIMA COUNTY CONVEYANCE AT 3355 N. DODGE BLVD., TUCSON, AZ. THE CONTRACTOR SHALL COORDINATE WITH PCRWRD INSPECTOR TO SCHEDULE A TIME TO DELIVER THE SALVAGED FRAMES AND COVERS. AFTER THE COMPLETION OF PAVEMENT WORK, THE CONTRACTOR SHALL VERIFY THAT ALL SANITARY SEWER MANHOLE COVERS AND PICK HOLES ARE CLEAN AND FREE OF ANY CONSTRUCTION MATERIALS, DEBRIS, AND/OR OBSTRUCTIONS.

11. ANY WORK INSIDE OR AROUND AN EXISTING SANITARY SEWER MANHOLE INCLUDING MANHOLES THAT ARE LOCATED WITHIN THE ROUGH GRADING LIMITS FOR A PROJECT, SHALL BE PROTECTED FROM FALLING DEBRIS BY INSTALLING FLOW CHANNEL COVER PER PCRWRD SSDC, DETAIL RWRD-306. THE CONTRACTOR SHALL REMOVE ANY DEBRIS THAT ENTERS A MANHOLE DURING CONSTRUCTION. FAILURE BY THE CONTRACTOR TO PROMPTLY REMOVE DEBRIS FROM A MANHOLE SHALL RESULT IN PCRWRD TAKING CORRECTIVE ACTION THAT WILL BE BILLED TO THE CONTRACTOR.

UTILITY MANHOLE SCHEDULE

SYMBOL	AGENCY/ ID NUMBER	SHEET	CENTERLINE	STATION/OFFSET	MANHOLE TYPE	EXISTING RIM ELEV.	NEW RIM ELEV.	ELEV DIFFERENCE	ADJUST/ RECONSTRUCT	COLLAR DTL. (RWRD)	ADDITIONAL NOTES
1	9622-6662	DM01/PP01	22ND ST.	STA. 48+99.91, 27.51' LT.	SANITARY SEWER MANHOLE	2692.54	2692.54	0.00	PROTECT IN PLACE	N/A	
2	3155-01	DM01/PP01	22ND ST.	STA. 53+65.36, 71.34' LT.	SANITARY SEWER MANHOLE	2698.79	2699.25	0.46	ADJUST*	212	
3	9622-6663	DM01/PP01	22ND ST.	STA. 53+65.42, 27.13' LT.	SANITARY SEWER MANHOLE	2699.89	2700.00	0.11	ADJUST*	211	
4	2605-01	DM01/PP01	22ND ST.	STA. 56+56.42, 27.17' LT.	SANITARY SEWER MANHOLE	2703.04	2703.09	0.05	ADJUST*	211	
5	2605-02	DM01/PP01	22ND ST.	STA. 56+56.91, 47.22' LT.	SANITARY SEWER MANHOLE	2702.14	2703.34	1.20	ADJUST*	212	
6	9622-6664	DM02/PP02	22ND ST.	STA. 58+46.13, 26.65' LT.	SANITARY SEWER MANHOLE	2705.55	2705.95	0.40	ADJUST*	211	
7	2605-03	DM02/PP02	22ND ST.	STA. 58+48.05, 62.28' LT.	SANITARY SEWER MANHOLE	2705.02	2705.02	0.00	PROTECT IN PLACE	N/A	
8	9622-6665	DM02/PP02	22ND ST.	STA. 63+22.84, 26.48' LT.	SANITARY SEWER MANHOLE	2712.84	2713.10	0.26	ADJUST*	211	
9	2730-01	DM02/PP02	22ND ST.	STA. 63+22.41, 16.23' RT.	SANITARY SEWER MANHOLE	2713.55	2713.30	-0.25	ADJUST*	211	
10	2730-02	DM02/PP02	22ND ST.	STA. 67+82.24, 16.80' RT.	SANITARY SEWER MANHOLE	2720.82	2721.63	0.81	ADJUST*	211	
11	2730-03	DM03/PP03	22ND ST.	STA. 72+75.27, 18.12' RT.	SANITARY SEWER MANHOLE	2729.49	2729.81	0.32	ADJUST*	211	
12	2730-04	DM03/PP03	22ND ST.	STA. 74+75.59, 17.12' RT.	SANITARY SEWER MANHOLE	2732.33	2732.52	0.19	ADJUST*	211	
13	4121-02	DM03/PP03	22ND ST.	STA. 76+41.22, 63.34' LT.	SANITARY SEWER MANHOLE	2734.06	2734.06	0.00	PROTECT IN PLACE	N/A	
14	4691-01	DM05/PP05	22ND ST.	STA. 91+17.39, 28.42' LT.	SANITARY SEWER MANHOLE	2754.10	2755.49	1.39	RECONSTRUCT^	211	
15	4166-01	DM05/PP05	22ND ST.	STA. 93+12.04, 27.07' LT.	SANITARY SEWER MANHOLE	2756.41	2758.73	2.32	RECONSTRUCT^	211	
16	4164-01	DM05/PP05	22ND ST.	STA. 94+26.89, 28.02' LT.	SANITARY SEWER MANHOLE	2757.84	2760.61	2.77	RECONSTRUCT^	211	
17	4691-02	DM05/PP05	22ND ST.	STA. 95+98.66, 26.66' LT.	SANITARY SEWER MANHOLE	2758.54	2762.55	4.01	RECONSTRUCT^	211	
18	9632-19	DM08/PP08	22ND ST.	STA. 119+61.80, 90.70' LT.	SANITARY SEWER MANHOLE	2788.64	2788.64	0.00	ADJUST*	212 & 217	RIP RAP EXTENDED FOR SCOUR PROTECTION
19	4675-01	DM08/PP08	22ND ST.	STA. 122+08.79, 90.77' LT.	SANITARY SEWER MANHOLE	2794.24	2794.24	0.00	PROTECT IN PLACE	N/A	
20	9632-20	DM08/PP08	22ND ST.	STA. 124+32.64, 91.71' LT.	SANITARY SEWER MANHOLE	2799.78	2799.78	0.00	PROTECT IN PLACE	N/A	
21	9632-21	DM09/PP09	22ND ST.	STA. 128+99.55, 91.06' LT.	SANITARY SEWER MANHOLE	2806.70	2806.61	-0.09	ADJUST*	211	
22	9632-22	DM09/PP09	22ND ST.	STA. 129+20.37, 67.06' RT.	SANITARY SEWER MANHOLE	2805.89	2805.89	0.00	PROTECT IN PLACE	N/A	
23	2614-02	DM09/PP09	22ND ST.	STA. 130+93.14, 100.78' LT.	SANITARY SEWER MANHOLE	2811.32	2811.32	0.00	PROTECT IN PLACE	N/A	
24	9598-01	DM09/PP09	22ND ST.	STA. 132+22.70, 66.29' RT.	SANITARY SEWER MANHOLE	2809.83	2809.83	0.00	PROTECT IN PLACE	N/A	
25	6184-20	DM09/PP09	22ND ST.	STA. 134+21.62, 144.15' LT.	SANITARY SEWER MANHOLE	2812.48	2812.48	0.00	PROTECT IN PLACE	N/A	
26	9598-37	DM09/PP09	22ND ST.	STA. 137+65.03, 65.96' RT.	SANITARY SEWER MANHOLE	2821.03	2821.03	0.00	PROTECT IN PLACE	N/A	MIN. 3' CLEARANCE BETWEEN TOU AND BOT HEADWALL
27	6683-01	DM10/PP10	22ND ST.	STA. 142+51.96, 65.87' RT.	SANITARY SEWER MANHOLE	2826.57	2826.25	-0.32	ADJUST*	212	

*ADJUST MANHOLE TO FINISHED GRADE PER RWRD STD. DTL. 305 AND COLLAR DETAIL STATED WITHIN THE TABLE.
^RECONSTRUCT MANHOLE PER RWRD STD. DTL. 309 AND COLLAR DETAIL STATED WITHIN THE TABLE.

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
GENERAL NOTES

CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

GN03 OF GN03

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ADA UPGRADE LOCATIONS

RAMP ID XXXX	LOCATION	SIDEROAD	CORNER	CONTROL POINT	CURB ACCESS RAMP (SF) #9080290	CONCRETE RAMP CURB (STD. DTL. 207) (LF) #9080040	REMARKS
R01A	22ND STREET	CAMINO SECO	NW	STA. 49+48.83, 64.72' LT.	-	-	
R01B	22ND STREET	CAMINO SECO	NW	STA. 49+60.42, 79.59' LT.	-	-	
R02A	22ND STREET	CAMINO SECO	NE	STA. 50+39.07, 77.78' LT.	-	-	
R02B	22ND STREET	CAMINO SECO	NE	STA. 50+52.67, 63.83' LT.	-	-	
R03A	22ND STREET	CAMINO SECO	SW	STA. 49+46.98, 51.00' RT.	-	-	
R03B	22ND STREET	CAMINO SECO	SW	STA. 49+71.13, 57.13' RT.	-	-	
R04A	22ND STREET	CAMINO SECO	SE	STA. 50+43.03, 60.40' RT.	-	-	
R04B	22ND STREET	CAMINO SECO	SE	STA. 50+58.00, 51.10' RT.	-	-	
R05	22ND STREET	OAK PARK DRIVE	NW	STA. 72+16.39, 41.00' LT.	-	-	
R06	22ND STREET	OAK PARK DRIVE	NE	STA. 72+62.42, 41.00' LT.	-	-	
R07	22ND STREET	OAK PARK DRIVE	SW	STA. 71+92.41, 58.63' RT.	-	-	
R08A	22ND STREET	OAK PARK DRIVE	SE	STA. 72+33.58, 58.62' RT.	-	-	
R08B	22ND STREET	OAK PARK DRIVE	SE	STA. 72+62.42, 41.00' RT.	-	-	
R09	22ND STREET	GOLLOB ROAD	NW	STA. 74+48.65, 76.67' LT.	-	-	
R10	22ND STREET	CALLE MARIA	SE	STA. 83+10.48, 47.63' LT.	-	-	
R11A	22ND STREET	HARRISON ROAD	NW	STA. 102+12.24, 53.86' LT.	-	-	
R11B	22ND STREET	HARRISON ROAD	NW	STA. 102+27.20, 71.59' LT.	-	-	
R12A	22ND STREET	HARRISON ROAD	NE	STA. 103+24.48, 69.55' LT.	-	-	
R12B	22ND STREET	HARRISON ROAD	NE	STA. 103+40.91, 54.04' LT.	-	-	
R13A	22ND STREET	HARRISON ROAD	SW	STA. 102+12.24, 65.04' RT.	-	-	
R13B	22ND STREET	HARRISON ROAD	SW	STA. 102+39.33, 85.74' RT.	-	-	
R14A	22ND STREET	HARRISON ROAD	SE	STA. 103+22.11, 84.02' RT.	-	-	
R14B	22ND STREET	HARRISON ROAD	SE	STA. 103+40.91, 52.75' RT.*	-	-	
R15A	22ND STREET	OLD SPANISH TRAIL	NW	STA. 207+15.68, 49.58' RT.*	-	-	
R15B	22ND STREET	OLD SPANISH TRAIL	NW	STA. 207+21.36, 39.37' RT.*	-	-	
R15C	22ND STREET	OLD SPANISH TRAIL	NW	STA. 207+88.45, 23.86' RT.	-	-	
R15D	22ND STREET	OLD SPANISH TRAIL	NW	STA. 111+15.68, 42.00' LT.	-	-	
R16	22ND STREET	OLD SPANISH TRAIL	NE	STA. 208+27.08, 23.00' LT.*	-	-	
R17	22ND STREET	OLD SPANISH TRAIL	NE	STA. 113+86.86, 52.00' LT.	-	-	
R18	22ND STREET	OLD SPANISH TRAIL	SW	STA. 111+92.94, 52.00' RT.	-	-	
R19	22ND STREET	OLD SPANISH TRAIL	SW	STA. 210+71.93, 23.00' RT.*	-	-	
R20	22ND STREET	DRIVEWAY 16	SW	STA. 108+17.93, 58.63' RT.	-	-	
R20A	22ND STREET	OLD SPANISH TRAIL	SE	STA. 114+33.86, 42.00' RT.	-	-	
R20B	22ND STREET	OLD SPANISH TRAIL	SE	STA. 211+10.56, 24.00' LT.*	-	-	
R20C	22ND STREET	OLD SPANISH TRAIL	SE	STA. 211+84.67, 40.10' LT.*	-	-	
R20D	22ND STREET	OLD SPANISH TRAIL	SE	STA. 211+92.29, 49.40' LT.*	-	-	
R21A	22ND STREET	BROWN AVENUE	SE	STA. 86+22.48, 47.62' RT.	-	-	
R21B	22ND STREET	DRIVEWAY 10	NW	STA. 96+52.76, 47.62' LT.	-	-	
R21C	22ND STREET	DRIVEWAY 10	NE	STA. 97+17.02, 47.62' LT.	-	-	
R21D	22ND STREET	DRIVEWAY 11	SW	STA. 100+25.33, 61.42' RT.	-	-	
R21E	22ND STREET	DRIVEWAY 11	SE	STA. 100+59.74, 64.86' RT.	-		
R21F	22ND STREET	DRIVEWAY 14	NE	STA. 106+17.49, 58.62' LT.	-	-	
R21G	22ND STREET	DRIVEWAY 15	NW	STA. 107+90.18, 58.62' LT.	-	-	
R21H	22ND STREET	DRIVEWAY 16	SW	STA. 107+99.80, 58.63' RT.	-	-	
R21I	22ND STREET	DRIVEWAY 15	NE	STA. 108+41.07, 58.63' RT.	-	-	
R21J	22ND STREET	DRIVEWAY 17	NW	STA. 115+60.92, 58.49' LT.	-	-	
R21K	22ND STREET	DRIVEWAY 17	NE	STA. 116+02.80, 55.69' LT.	-	-	
R21L	22ND STREET	NORMANDY PLACE	SW	STA. 137+78.32, 47.62' RT.	-	-	
R21M	22ND STREET	NORMANDY PLACE	SE	STA. 138+12.58, 47.63' RT.	-	-	
R21N	22ND STREET	DISCOVERY DRIVE	SE	STA. 148+63.32, 51.83' RT.			

* STATION/OFFSET TAKEN FROM THE OLD SPANISH TRAIL CENTERLINE

TO BE COMPLETED AT 90%

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP SUMMARY SHEETS

CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY A. GARDNER AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

ADA UPGRADE LOCATIONS

RAMP ID XXXX	LOCATION	SIDEROAD	CORNER	CONTROL POINT	CURB ACCESS RAMP (SF) #9080290	CONCRETE RAMP CURB (STD. DTL. 207) (LF) #9080040	REMARKS
R22A	22ND STREET	CALLE DON JUAN	SW	STA. 67+66.98, 50.63' RT.	-	-	
R22B	22ND STREET	CALLE DON JUAN	SE	STA. 67+95.28, 50.63' RT.	-	-	
R22C	22ND STREET	CALLE MARIA	SW	STA. 77+52.22, 47.63' RT.	-	-	
R22D	22ND STREET	CALLE MARIA	SE	STA. 77+92.48, 47.62' RT.	-	-	
R22E	22ND STREET	CALLE MARIA	SW	STA. 82+70.22, 47.63' RT.	-	-	
R22F	22ND STREET	BROWN AVENUE	SW	STA. 85+72.22, 47.62' RT.	-	-	
R22G	22ND STREET	BRUSH CANYON DRIVE	SW	STA. 93+98.13, 47.63' RT.	-	-	
R22H	22ND STREET	BRUSH CANYON DRIVE	SE	STA. 94+44.40, 47.61' RT.	-	-	
R22I	22ND STREET	BONANZA AVENUE	NW	STA. 128+75.49, 63.50' LT.	-	-	
R22J	22ND STREET	RED COLT ROAD	NW	STA. 130+70.68, 63.50' LT.	-	-	
R22K	22ND STREET	RED COLT ROAD	NE	STA. 131+02.68, 63.50' LT.	-	-	
R22L	22ND STREET	SUNCOVE DRIVE	NW	STA. 133+95.90, 63.50' LT.	-	-	
R22M	22ND STREET	SUNCOVE DRIVE	NE	STA. 134+33.90, 63.50' LT.	-	-	
R22N	22ND STREET	OLIVE WOOD DRIVE	NW	STA. 144+92.58, 52.62' LT.	-	-	
R22O	22ND STREET	OLIVE WOOD DRIVE	NE	STA. 145+32.81, 52.63' LT.	-	-	
R22P	22ND STREET	DISCOVERY DRIVE	SW	STA. 148+30.11, 51.09' RT.	-	-	
R23A	22ND STREET	DRIVEWAY 1	NW	STA. 55+57.59, 56.30' LT.	-	-	
R23B	22ND STREET	DRIVEWAY 1	NE	STA. 55+93.42, 54.96' LT.	-	-	
R23C	22ND STREET	OAK PARK DRIVE	NE	STA. 72+41.66, 83.74' RT.	-	-	
R23D	22ND STREET	OAK PARK DRIVE	SE	STA. 72+41.97, 115.74' RT.	-	-	
R23E	22ND STREET	GOLLOB ROAD	NW	STA. 74+45.86, 50.63' LT.	-	-	
R23F	22ND STREET	GOLLOB ROAD	NE	STA. 74+77.67, 50.63' LT.	-	-	
R23G	22ND STREET	DRIVEWAY 12	NW	STA. 100+26.32, 50.62' LT.	-	-	
R23H	22ND STREET	DRIVEWAY 12	NE	STA. 100+68.12, 50.62' LT.	-	-	
R23I	22ND STREET	DRIVEWAY 13	SW	STA. 104+77.33, 50.63' RT.	-	-	
R23J	22ND STREET	DRIVEWAY 13	SE	STA. 105+13.73, 50.63' RT.	-	-	
R23K	22ND STREET	DRIVEWAY 14	NW	STA. 105+82.24, 58.62' LT.	-	-	
R23L	22ND STREET	DRIVEWAY 16	SE	STA. 108+40.93, 61.63' RT.	-	-	
R23M	OLD SPANISH TRAIL	DRIVEWAY 20	NW	STA. 212+92.69, 40.61' RT.*	-	-	
R23N	OLD SPANISH TRAIL	DRIVEWAY 20	SW	STA. 213+27.14, 40.61' RT.*	-	-	
R23O	22ND STREET	BONANZA AVENUE	NE	STA. 129+11.51, 63.50' LT.	-	-	
R23P	22ND STREET	LELAND DRIVE	NW	STA. 141+89.94, 62.50' LT.	-	-	
R23Q	22ND STREET	LELAND DRIVE	NE	STA. 142+12.94, 62.50' LT.	-	-	

* STATION/OFFSET TAKEN FROM THE OLD SPANISH TRAIL CENTERLINE

TO BE COMPLETED AT 90%

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

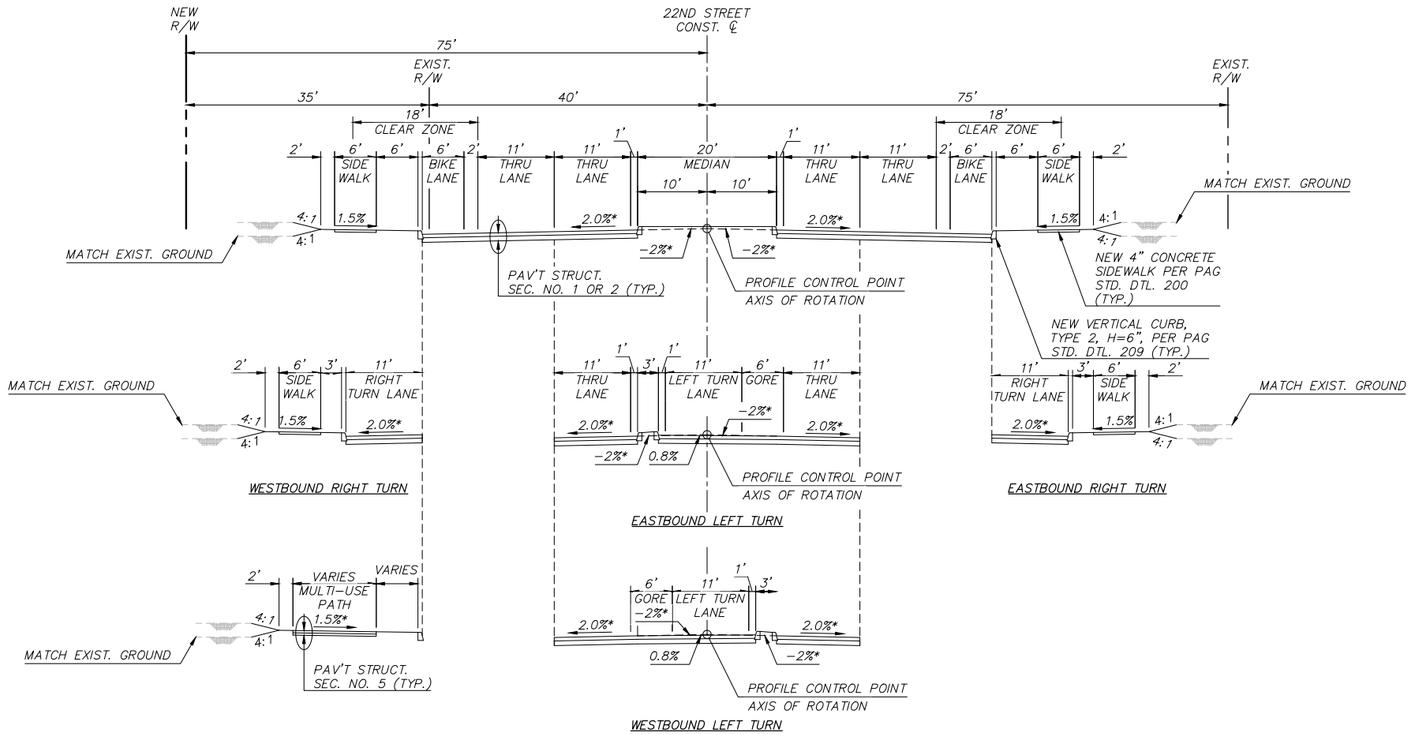
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP SUMMARY SHEETS

CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY A. GARDNER AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

RS02 OF RS02

6 OF 316



22ND STREET TYPICAL SECTION

(STA. 49+31.41 TO 148+71.43)

GENERAL NOTES:

* SEE ROADWAY PLAN AND PROFILE SHEETS FOR SUPERELEVATION DIAGRAMS FOR CROSS SLOPE VARIATIONS.

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TYPICAL SECTION - 22ND STREET

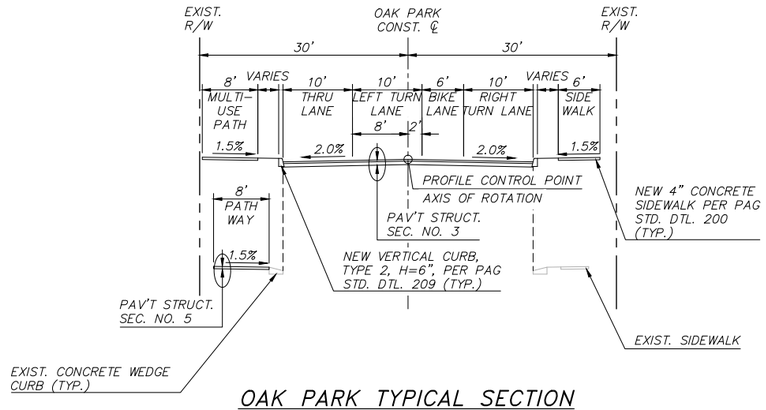
CITY OF TUCSON

DRWN. BY A. GARDNER AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

TY01 OF TY03

7 OF 316



OAK PARK TYPICAL SECTION

(STA. 10+40.64 TO 12+49.36)

GENERAL NOTES:

* SEE ROADWAY PLAN AND PROFILE SHEETS FOR SUPERELEVATION DIAGRAMS FOR CROSS SLOPE VARIATIONS.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TYPICAL SECTION - OAK PARK DRIVE

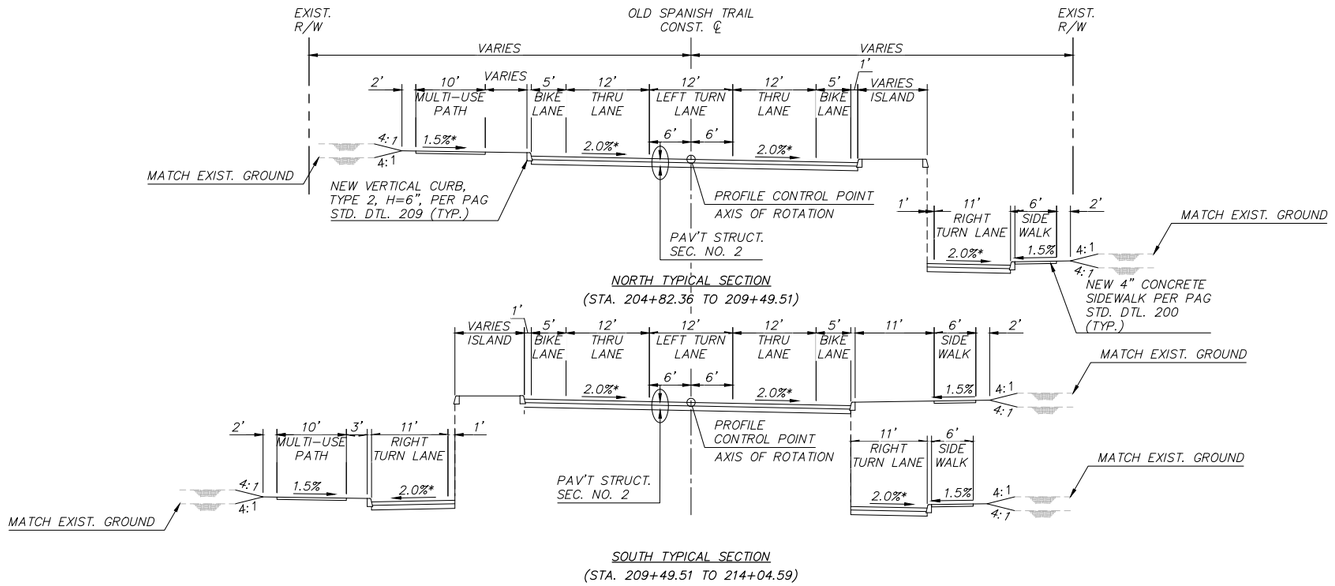
CITY OF TUCSON

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CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
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PLAN NO. I-2025-004

TY02 OF TY03

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OLD SPANISH TRAIL TYPICAL SECTION

(STA. 204+82.36 TO 214+04.59)

GENERAL NOTES:

* SEE ROADWAY PLAN AND PROFILE SHEETS FOR SUPERELEVATION DIAGRAMS FOR CROSS SLOPE VARIATIONS.

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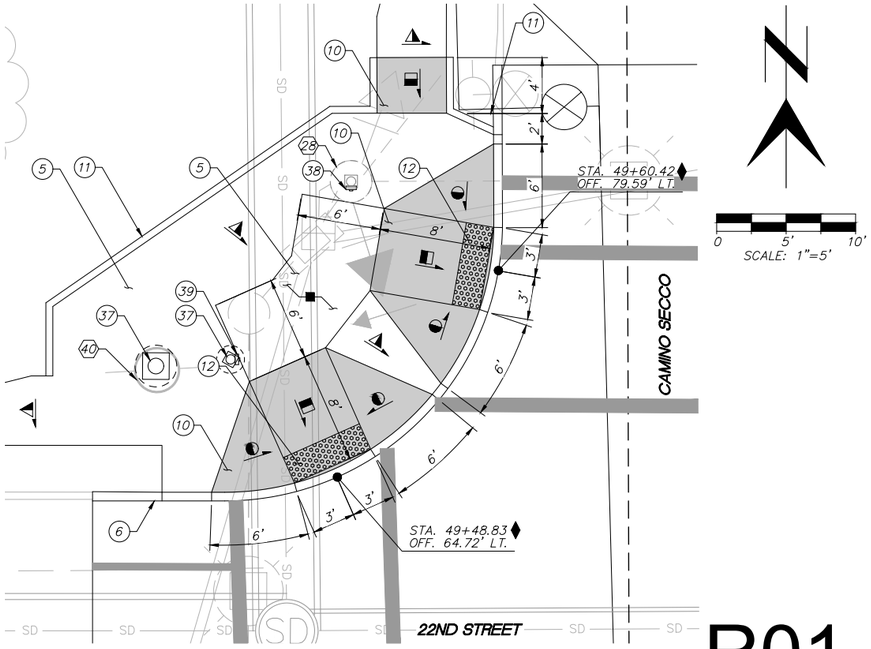
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

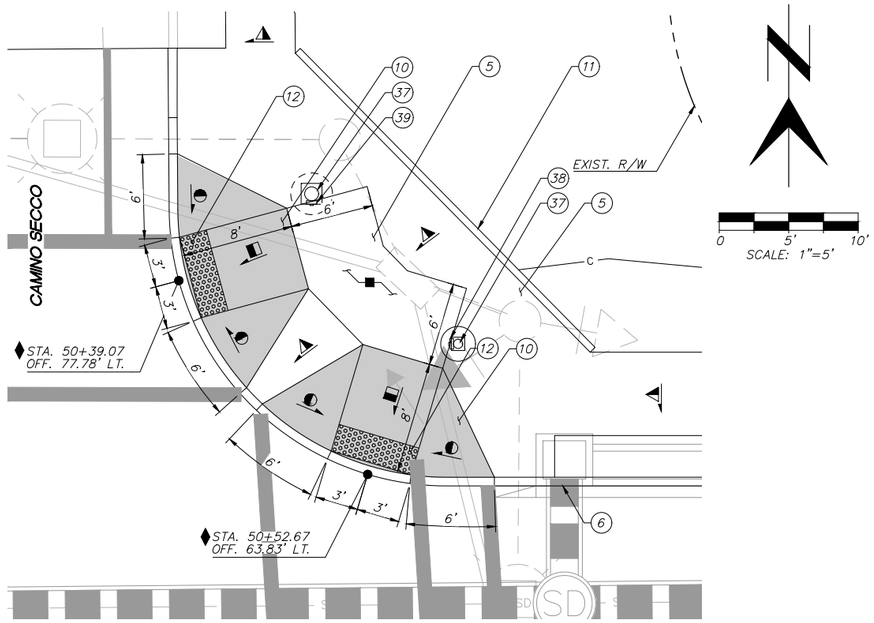
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TYPICAL SECTION - OLD SPANISH TRAIL

CITY OF TUCSON

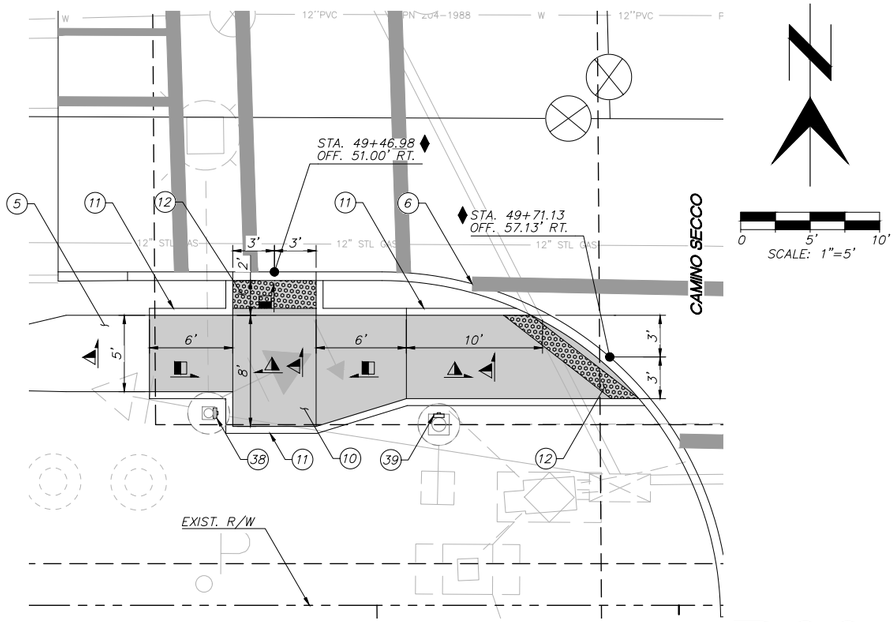
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SCALE: H: N/A V: N/A
PLAN NO. I-2025-004



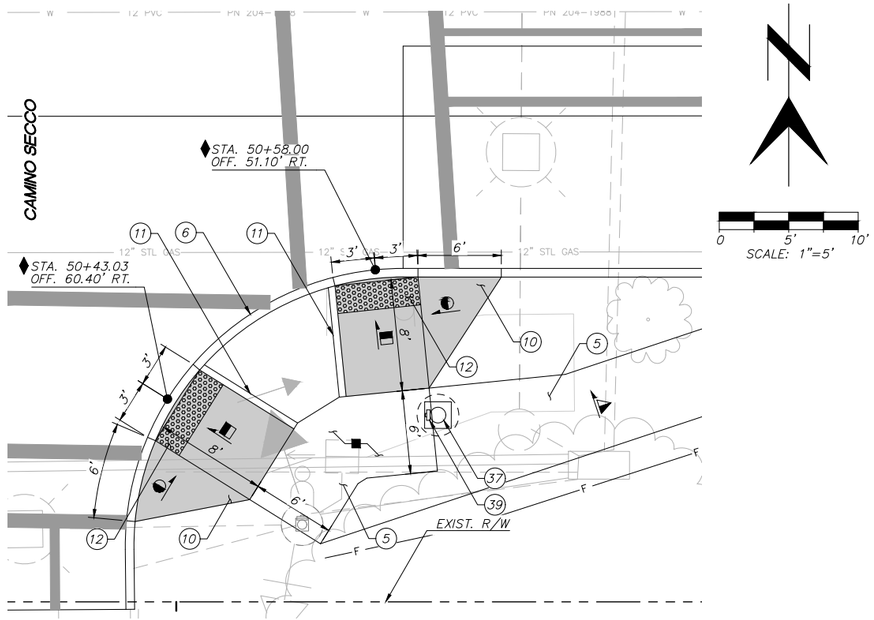
DETAIL R01



DETAIL R02



DETAIL R03



DETAIL R04

CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

(37) INSTALL NEW SIGNAL POLE AND FOUNDATION, SEE SIGNAL PLANS FOR TYPE & EXACT LOCATION.

(38) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(R) SIGN PER PAG STD. DTL. 1101.

(39) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(L) SIGN PER PAG STD. DTL. 1101.

DEMO NOTES:

(28) EXISTING SIGNAL POLE AND FOUNDATION, PROTECT IN PLACE.

(40) EXISTING UTILITY POLE, PROTECT IN PLACE.

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
4. ALL EXPOSED CORNERS SHALL BE FINISHED WITH A 3" RADIUS UNLESS OTHERWISE NOTED.
5. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

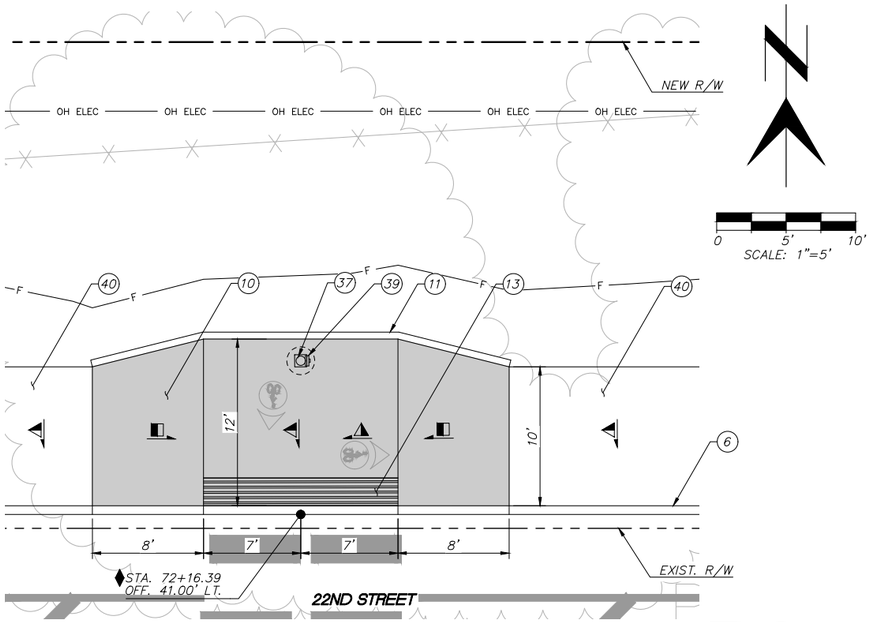
CITY OF TUCSON

DRWN. BY D. GLENN	CHKD. BY C. DELUNA	APPR. BY T. RHINE	SCALE: H: 1"=5' V: N/A
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

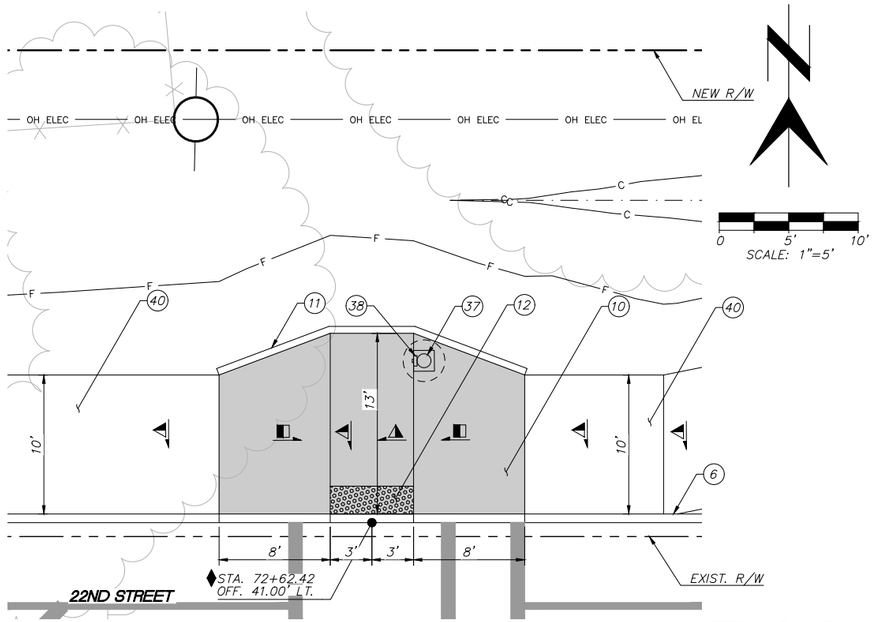
DT01 OF DT11

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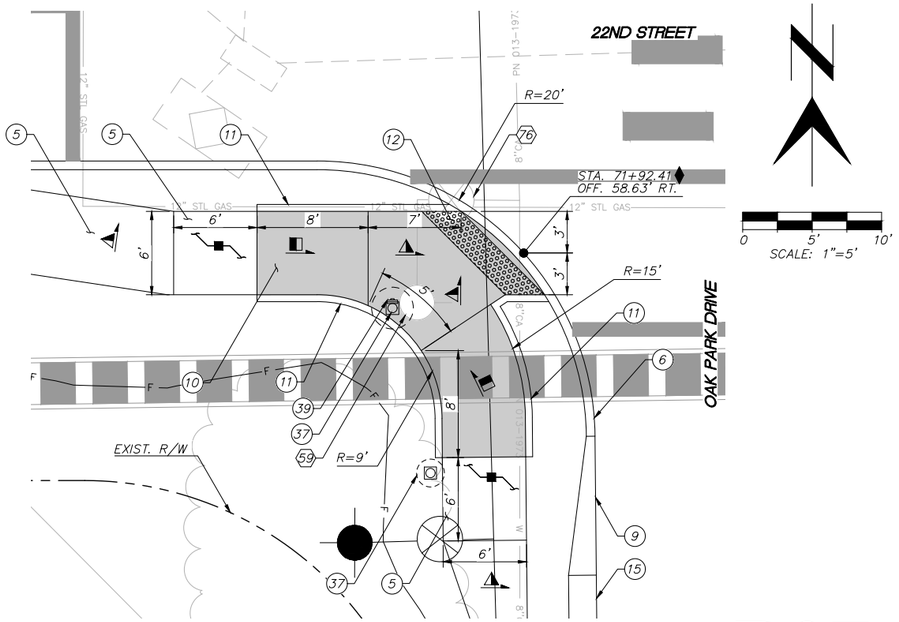
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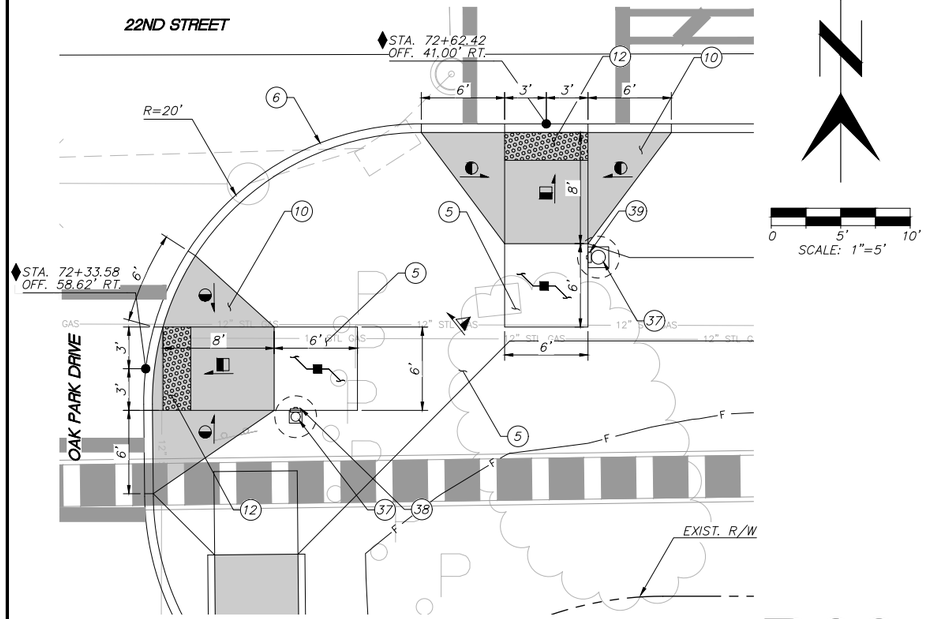
DETAIL **R05**



DETAIL **R06**



DETAIL **R07**



DETAIL **R08**

CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(9) INSTALL NEW CONCRETE CURB TRANSTION PER PAG STD. DTL. 210.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

(13) INSTALL NEW 2' DETECTABLE GUIDE STRIP.

(15) INSTALL NEW WEDGE CURB PER PAG STD. DTL. 209.

(37) INSTALL NEW SIGNAL POLE AND FOUNDATION, SEE SIGNAL PLANS FOR TYPE & EXACT LOCATION.

(38) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(R) SIGN PER PAG STD. DTL. 1101.

(39) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(L) SIGN PER PAG STD. DTL. 1101.

(40) INSTALL NEW PAVEMENT PER PAVPSSSEMENT STRUCTURAL SECTION NO. 5 ON SHEET GN02.

DEMO NOTES:

(59) REMOVE AND RELOCATE EXISTING FIRE HYDRANT.

(76) REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
4. ALL EXPOSED CORNERS SHALL BE FINISHED WITH A 3" RADIUS UNLESS OTHERWISE NOTED.

DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

CITY OF TUCSON

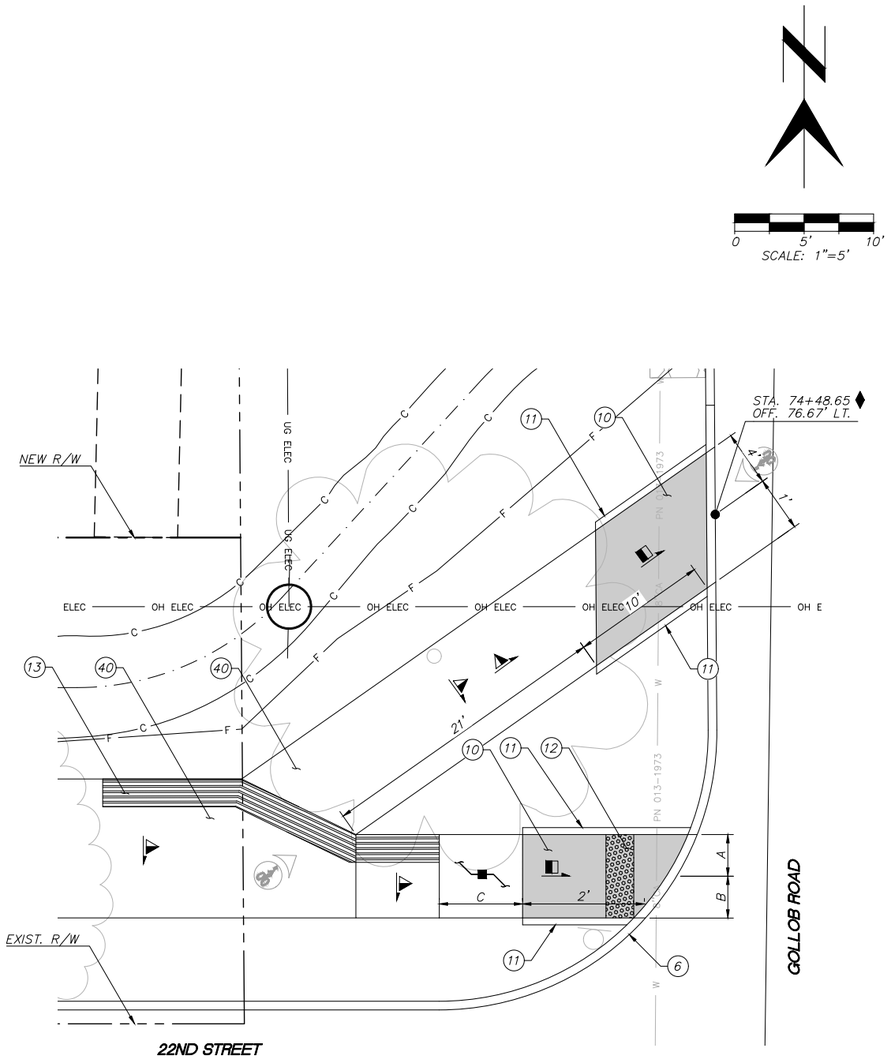
DRWN. BY D. GLENN	CHKD. BY A. GARDNER	APPR. BY T. RHINE
AUG 20 25	AUG 20 25	AUG 20 25

SCALE: H: 1"=5' V: N/A
PLAN NO. I-2025-004

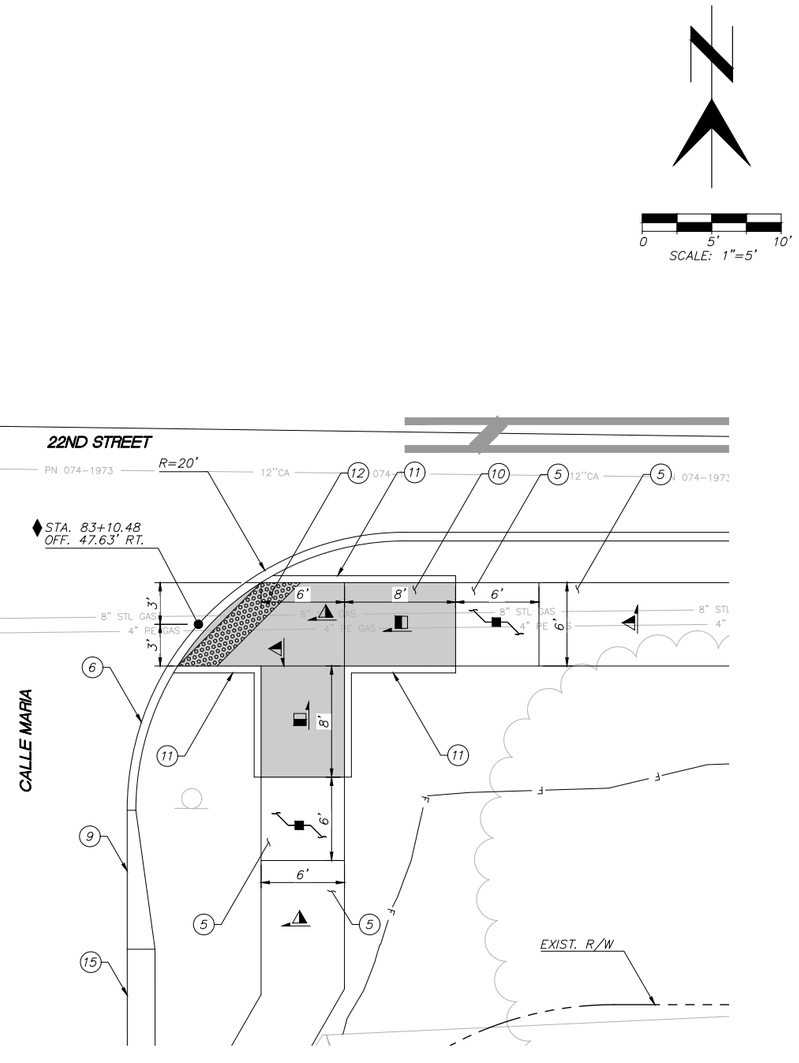
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DETAIL R09



DETAIL R10

CONSTRUCTION NOTES:

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(13) INSTALL NEW 2' DETECTABLE GUIDE STRIP.

(40) INSTALL NEW PAVEMENT PER PAVEMENT STRUCTURAL SECTION NO. 5 ON SHEET GN02.

DEMO NOTES:

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
4. ALL EXPOSED CORNERS SHALL BE FINISHED WITH A 3" RADIUS UNLESS OTHERWISE NOTED.

DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

CITY OF TUCSON

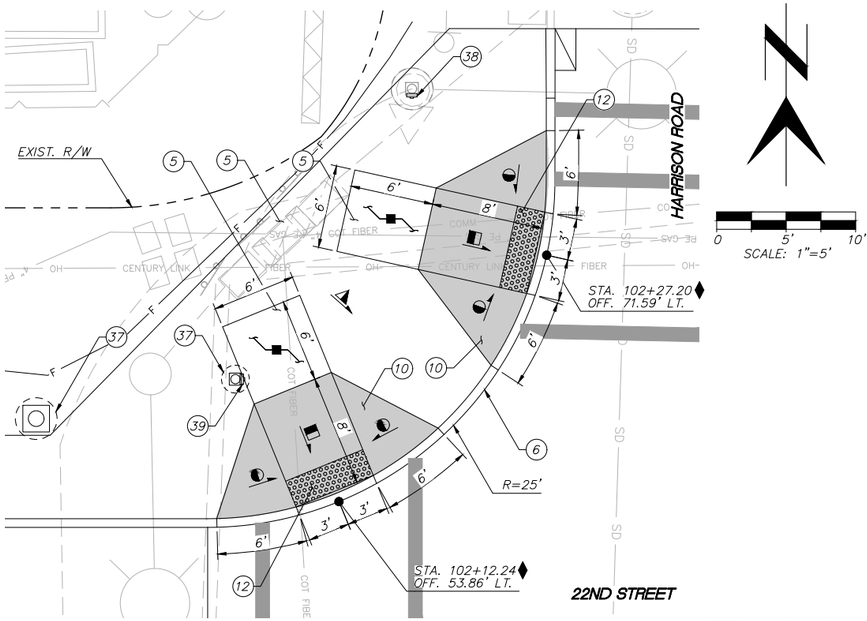
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CHKD. BY A. GARDNER AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=5' V: N/A
PLAN NO. I-2025-004

DT03 OF DT11

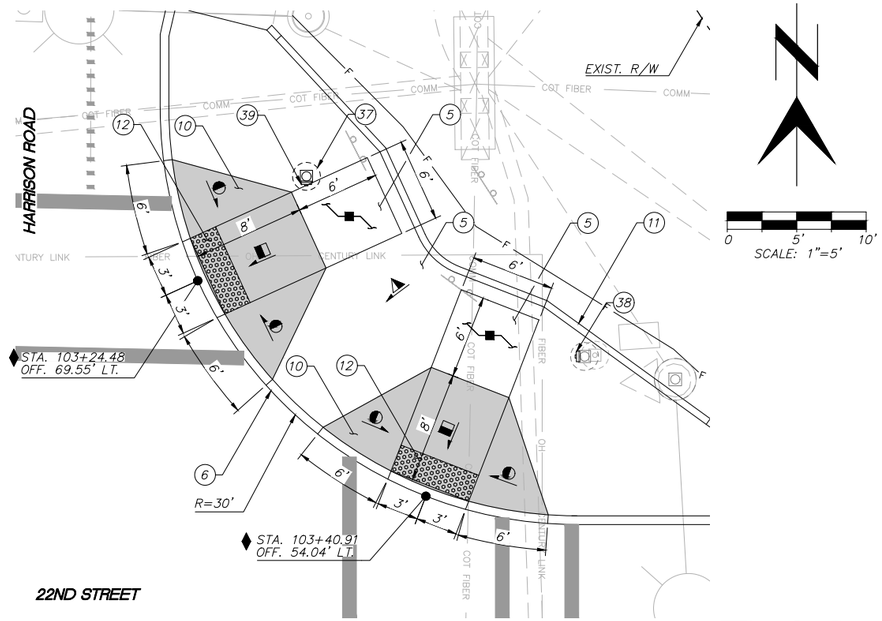
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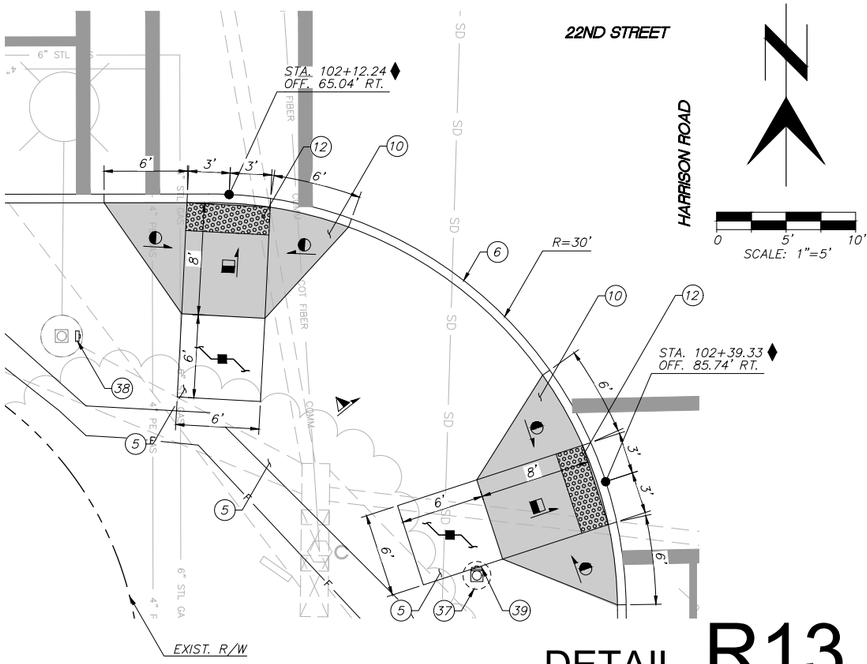
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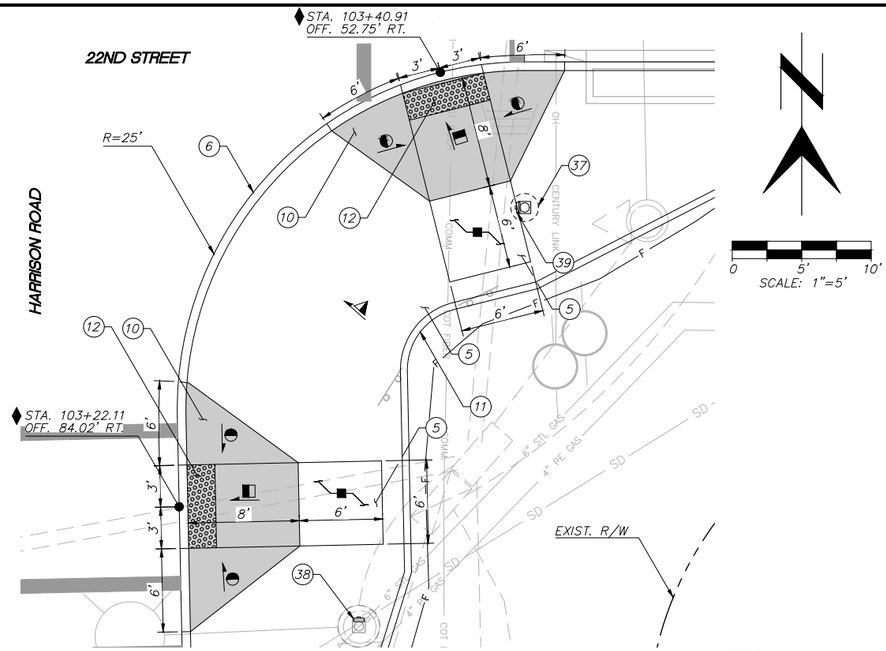
DETAIL R11



DETAIL R12



DETAIL R13



DETAIL R14

CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

(37) INSTALL NEW SIGNAL POLE AND FOUNDATION, SEE SIGNAL PLANS FOR TYPE & EXACT LOCATION.

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(39) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(L) SIGN PER PAG STD. DTL. 1101.

DEMO NOTES:

GENERAL NOTES:

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DESIGN KEY

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- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

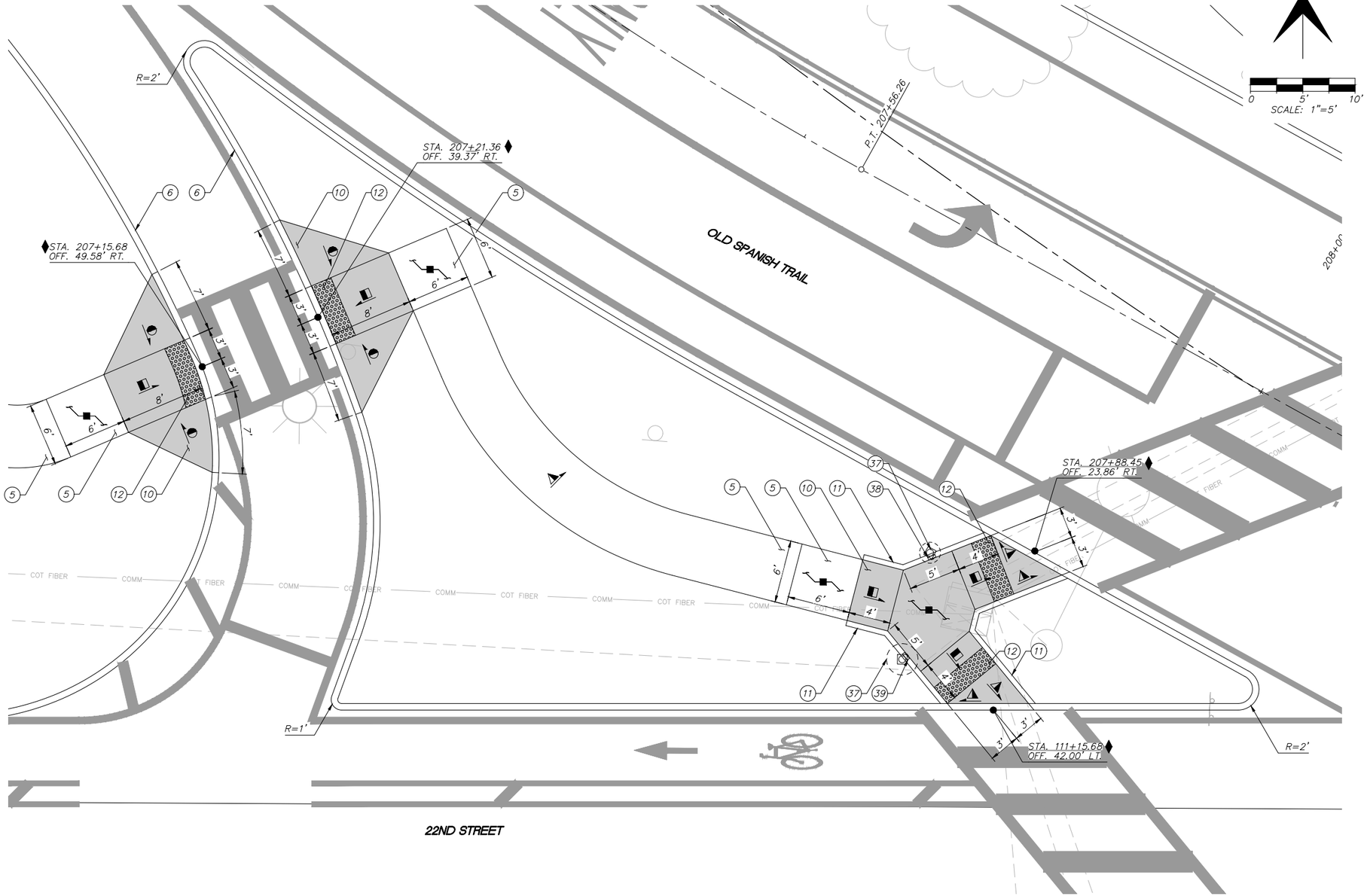
CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY A. GARDNER AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=5' V: N/A
PLAN NO. I-2025-004

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CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

(37) INSTALL NEW SIGNAL POLE AND FOUNDATION, SEE SIGNAL PLANS FOR TYPE & EXACT LOCATION.

(38) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(R) SIGN PER PAG STD. DTL. 1101.

(39) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(L) SIGN PER PAG STD. DTL. 1101.

DEMO NOTES:

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
4. ALL EXPOSED CORNERS SHALL BE FINISHED WITH A 3" RADIUS UNLESS OTHERWISE NOTED.

DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

DETAIL R15

Kimley»Horn

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

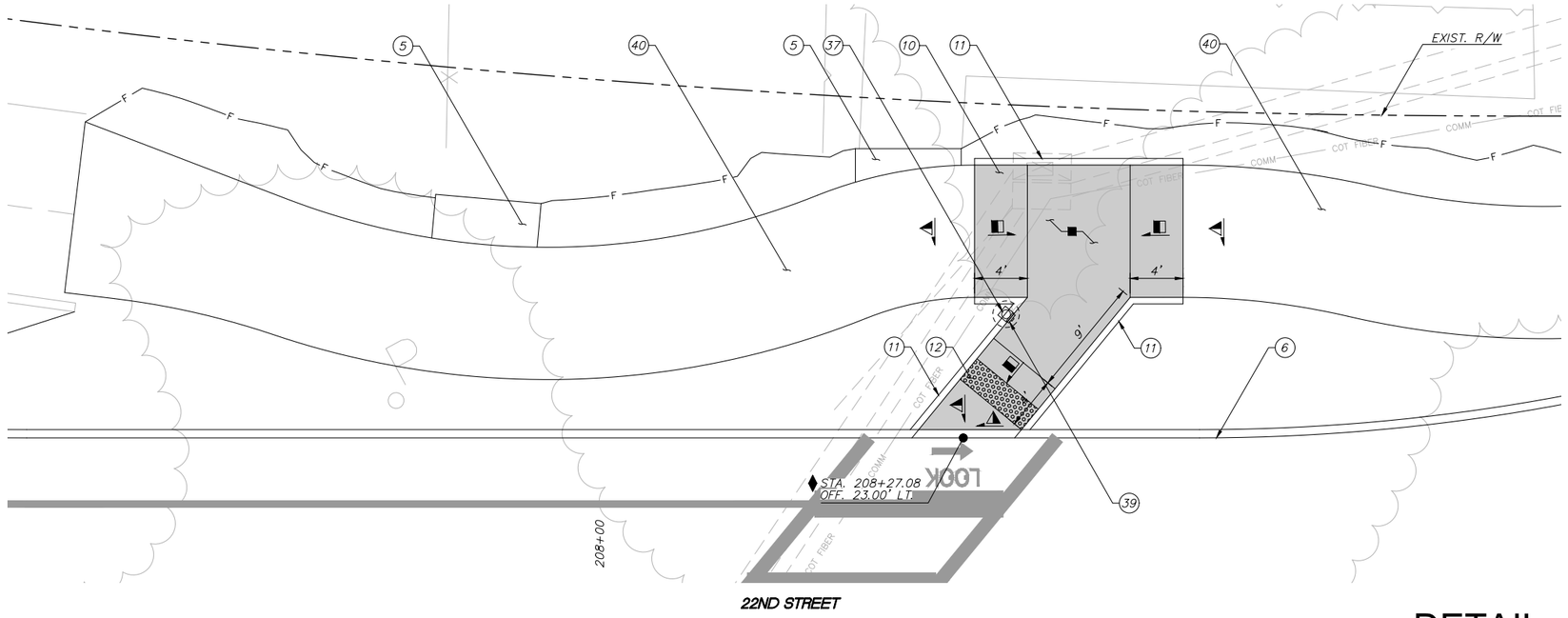
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=5' V: N/A
D. GLENN AUG 20 25	A. GARDNER AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

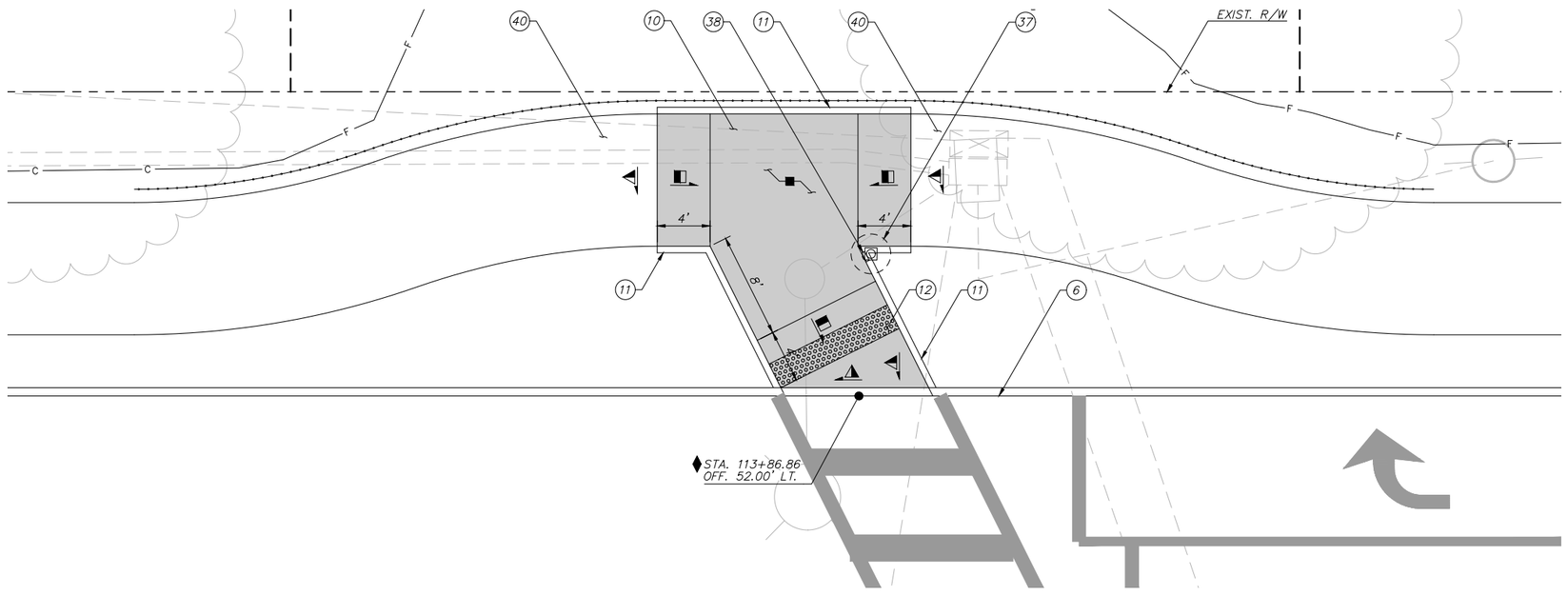
DT05 OF DT11

14 OF 316

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DETAIL R16



DETAIL R17

CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

(37) INSTALL NEW SIGNAL POLE AND FOUNDATION, SEE SIGNAL PLANS FOR TYPE & EXACT LOCATION.

(38) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(R) SIGN PER PAG STD. DTL. 1101.

(39) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(L) SIGN PER PAG STD. DTL. 1101.

(40) INSTALL NEW PAVEMENT PER PAVPSSSEMENT STRUCTURAL SECTION NO. 5 ON SHEET GN02.

DEMO NOTES:

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
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DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

Kimley»Horn

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

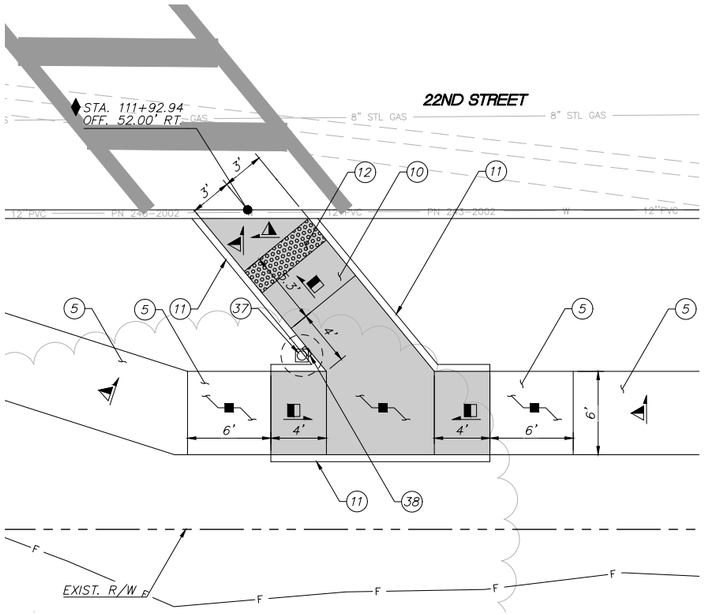
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

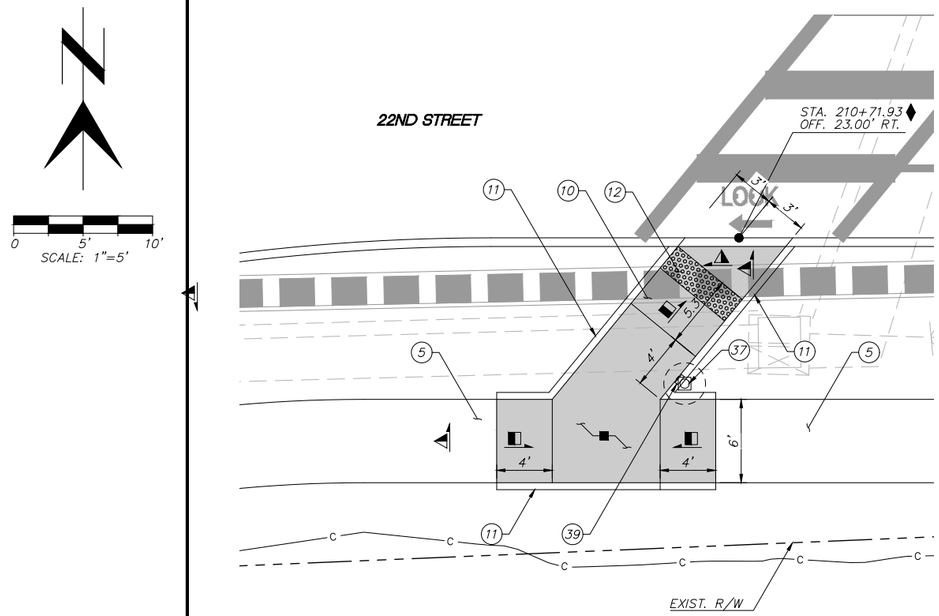
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

CITY OF TUCSON

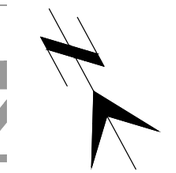
DRWN. BY D. GLENN	CHKD. BY A. GARDNER	APPR. BY T. RHINE	SCALE: H: 1"=5' V: N/A
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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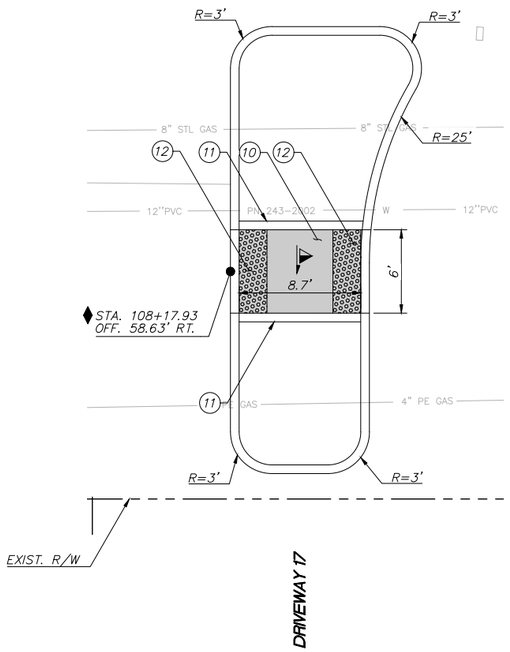


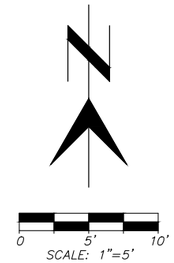


DETAIL R18



DETAIL R19





DETAIL R20

CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

(37) INSTALL NEW SIGNAL POLE AND FOUNDATION, SEE SIGNAL PLANS FOR TYPE & EXACT LOCATION.

(38) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(R) SIGN PER PAG STD. DTL. 1101.

(39) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(L) SIGN PER PAG STD. DTL. 1101.

DEMO NOTES:

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
4. ALL EXPOSED CORNERS SHALL BE FINISHED WITH A 3" RADIUS UNLESS OTHERWISE NOTED.

DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

NO.	DATE	REVISION	BY	CHKD.	APPR.

Kimley»Horn

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PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

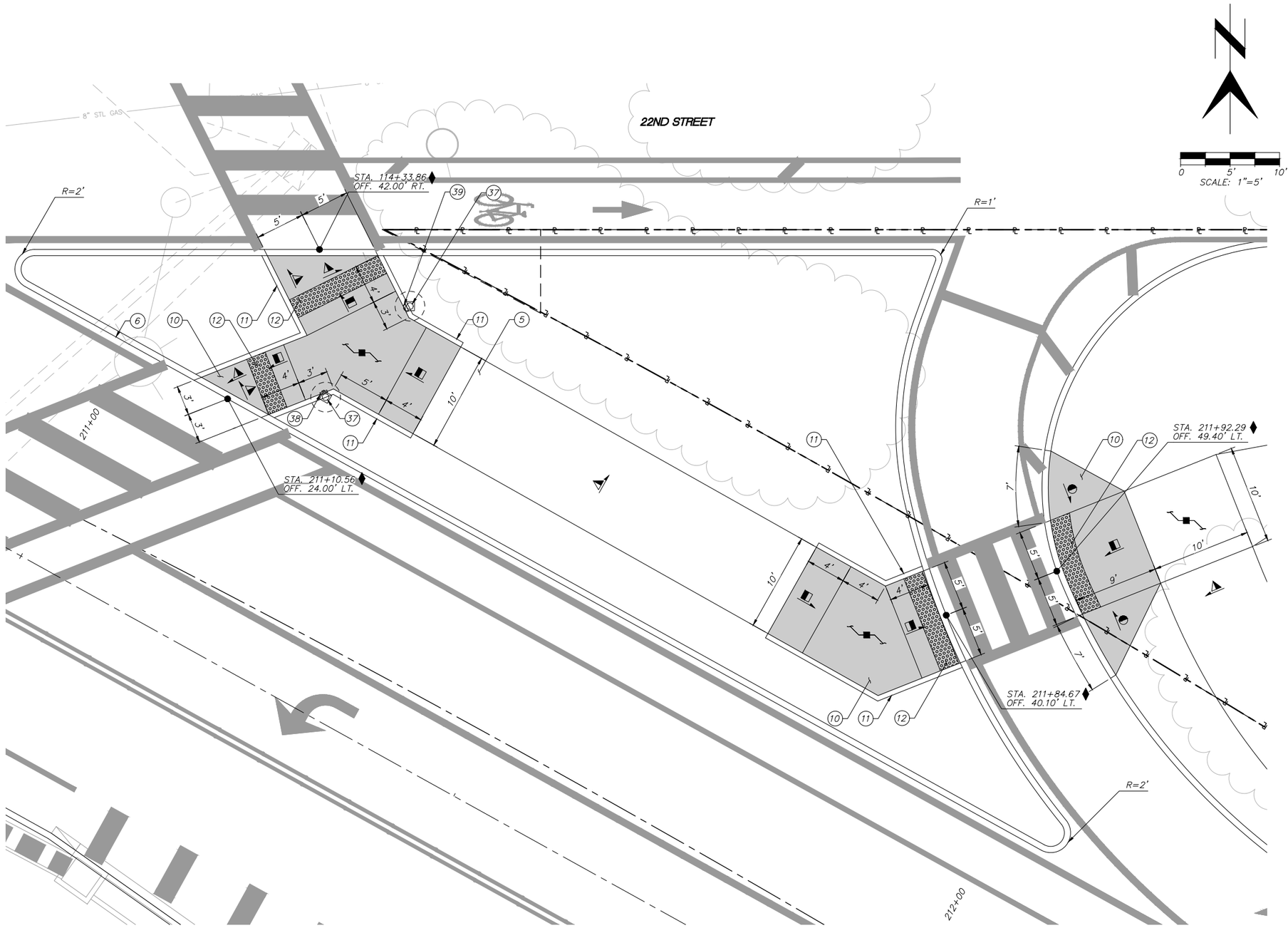
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=5' V: N/A
D. GLENN AUG 20 25	A. GARDNER AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

DT07 OF DT11

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CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

(37) INSTALL NEW SIGNAL POLE AND FOUNDATION, SEE SIGNAL PLANS FOR TYPE & EXACT LOCATION.

(38) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(R) SIGN PER PAG STD. DTL. 1101.

(39) INSTALL NEW TYPE 1 PEDESTRIAN PUSH BUTTON WITH R10-3E(L) SIGN PER PAG STD. DTL. 1101.

DEMO NOTES:

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
4. ALL EXPOSED CORNERS SHALL BE FINISHED WITH A 3" RADIUS UNLESS OTHERWISE NOTED.

DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

DETAIL R20

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY A. GARDNER AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H: 1"=5' V: N/A
PLAN NO. I-2025-004

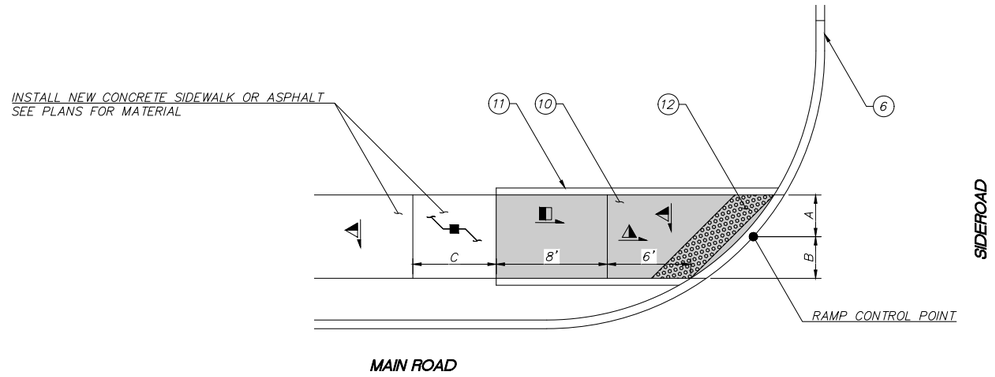
DT08 OF DT11

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RAMP ID	RAMP CONTROL POINT	MAIN ROAD	SIDEROAD	LENGTH (A)	LENGTH (B)	LENGTH (C)
R21A	STA. 86+22.48, 47.62' RT.	22ND STREET	BROWN AVENUE	3'	3'	6'
R21B	STA. 96+52.76, 47.62' LT.	22ND STREET	DRIVEWAY 10	3'	3'	6'
R21C	STA. 97+17.02, 47.62' LT.	22ND STREET	DRIVEWAY 10	3'	3'	6'
R21D	STA. 100+25.33, 61.42' RT.	22ND STREET	DRIVEWAY 11	3'	3'	6'
R21E	STA. 100+59.74, 64.86' RT.	22ND STREET	DRIVEWAY 11	3'	3'	6'
R21F	STA. 106+17.49, 58.62' LT.	22ND STREET	DRIVEWAY 14	3'	3'	6'
R21G	STA. 107+90.18, 58.62' LT.	22ND STREET	DRIVEWAY 15	3'	3'	6'
R21H	STA. 107+99.80, 58.63' RT.	22ND STREET	DRIVEWAY 16	3'	3'	6'
R21I	STA. 108+41.07, 58.63' RT.	22ND STREET	DRIVEWAY 15	3'	3'	6'
R21J	STA. 115+60.92, 58.49' LT.	22ND STREET	DRIVEWAY 17	5'	5'	6'
R21K	STA. 116+02.80, 55.69' LT.	22ND STREET	DRIVEWAY 17	5'	5'	6'
R21L	STA. 137+78.32, 47.62' RT.	22ND STREET	NORMANDY PLACE	3'	3'	6'
R21M	STA. 138+12.58, 47.63' RT.	22ND STREET	NORMANDY PLACE	3'	3'	6'
R21N	STA. 148+63.32, 51.83' RT.	22ND STREET	DISCOVERY DRIVE	3'	3'	8'

CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
4. ALL EXPOSED CORNERS SHALL BE FINISHED WITH A 3" RADIUS UNLESS OTHERWISE NOTED.

DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

DETAIL R21

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY A. GARDNER AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=5' V: N/A
PLAN NO. I-2025-004

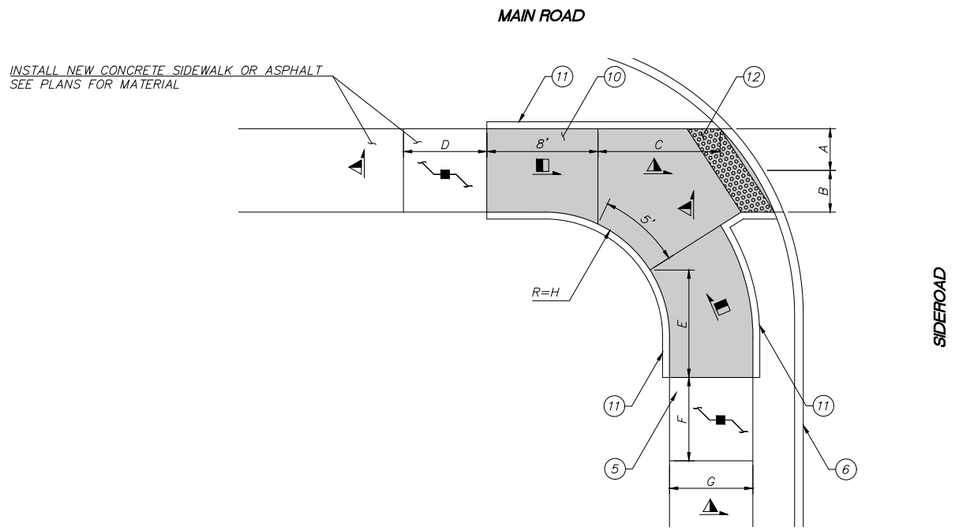
DT09 OF DT11

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Kimley»Horn

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RAMP ID	RAMP CONTROL POINT	MAIN ROAD	SIDEROAD	LENGTH (A)	LENGTH (B)	LENGTH (C)	LENGTH (D)	LENGTH (E)	LENGTH (F)	LENGTH (G)	RADIUS (H)
R22A	STA. 67+66.98, 50.63' RT.	22ND STREET	CALLE DON JUAN	3'	3'	8.8'	6'	8'	6'	6'	9'
R22B	STA. 67+95.28, 50.63' RT.	22ND STREET	CALLE DON JUAN	3'	3'	8.8'	6'	8'	6'	6'	9'
R22C	STA. 77+52.22, 47.63' RT.	22ND STREET	CALLE MARIA	3'	3'	6.0'	6'	8'	6'	6'	9'
R22D	STA. 77+92.48, 47.62' RT.	22ND STREET	CALLE MARIA	3'	3'	6.0'	6'	8'	6'	6'	9'
R22E	STA. 82+70.22, 47.63' RT.	22ND STREET	CALLE MARIA	3'	3'	6.0'	6'	8'	6'	6'	9'
R22F	STA. 85+72.22, 47.62' RT.	22ND STREET	BROWN AVENUE	3'	3'	6.0'	6'	8'	6'	6'	9'
R22G	STA. 93+98.13, 47.63' RT.	22ND STREET	BRUSH CANYON DRIVE	3'	3'	6.7'	6'	8'	6'	6'	9'
R22H	STA. 94+44.40, 47.61' RT.	22ND STREET	BRUSH CANYON DRIVE	3'	3'	6.7'	6'	8'	6'	6'	9'
R22I	STA. 128+75.49, 63.50' LT.	22ND STREET	BONANZA AVENUE	6'	6'	12.9'	12'	8'	6'	6'	10'
R22J	STA. 130+70.68, 63.50' LT.	22ND STREET	RED COLT ROAD	6'	6'	13.1'	12'	8'	5'	5'	10'
R22K	STA. 131+02.68, 63.50' LT.	22ND STREET	RED COLT ROAD	6'	6'	13.3'	12'	8'	5'	5'	10'
R22L	STA. 133+95.90, 63.50' LT.	22ND STREET	SUNCOVE DRIVE	6'	6'	15.0'	12'	8'	6'	6'	9'
R22M	STA. 134+33.90, 63.50' LT.	22ND STREET	SUNCOVE DRIVE	6'	6'	12.2'	12'	8'	5'	4'	10'
R22N	STA. 144+92.58, 52.62' LT.	22ND STREET	OLIVE WOOD DRIVE	5'	5'	8.7'	10'	8'	6'	6'	10'
R22O	STA. 145+32.81, 52.63' LT.	22ND STREET	OLIVE WOOD DRIVE	3'	3'	9.4'	6'	8'	6'	6'	9'
R22P	STA. 148+30.11, 51.09' RT.	22ND STREET	DISCOVERY DRIVE	3'	3'	7.3'	6'	8'	6'	6'	9'

CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

GENERAL NOTES:

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DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- DRAIN TOWARDS ROADWAY (1.5% MAX)
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

DETAIL R22

Kimley»Horn

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

CITY OF TUCSON

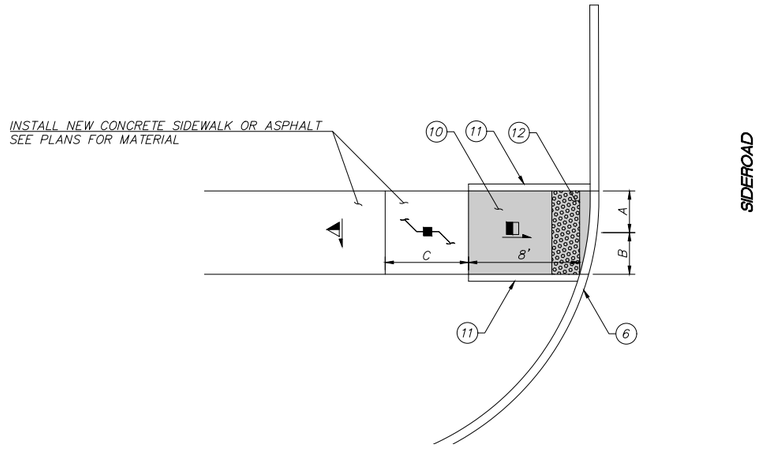
DRWN. BY D. GLENN AUG 20 25
CHKD. BY A. GARDNER AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H: 1"=5' V: N/A
PLAN NO. I-2025-004

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K:\TUC_Roadway\098134220_COT 22nd Street\CADD\Sheet Files\134220d01.dwg Aug 21, 2025 Cipriano.DeLuna
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RAMP ID	RAMP CONTROL POINT	MAIN ROAD	SIDEROAD	LENGTH (A)	LENGTH (B)	LENGTH (C)
R23A	STA. 55+57.59, 56.30' LT.	22ND STREET	DRIVEWAY 1	3'	3'	6'
R23B	STA. 55+93.42, 54.96' LT.	22ND STREET	DRIVEWAY 1	3'	3'	6'
R23C	STA. 72+41.66, 83.74' RT.	22ND STREET	OAK PARK DRIVE	3'	3'	6'
R23D	STA. 72+41.97, 115.74' RT.	22ND STREET	OAK PARK DRIVE	3'	3'	5'
R23E	STA. 74+45.86, 50.63' LT.	22ND STREET	GOLLOB ROAD	3'	3'	6'
R23F	STA. 74+77.67, 50.63' LT.	22ND STREET	GOLLOB ROAD	3'	3'	6'
R23G	STA. 100+26.32, 50.62' LT.	22ND STREET	DRIVEWAY 12	3'	3'	6'
R23H	STA. 100+68.12, 50.62' LT.	22ND STREET	DRIVEWAY 12	3'	3'	6'
R23I	STA. 104+77.33, 50.63' RT.	22ND STREET	DRIVEWAY 13	3'	3'	6'
R23J	STA. 105+13.73, 50.63' RT.	22ND STREET	DRIVEWAY 13	3'	3'	6'
R23K	STA. 105+82.24, 58.62' LT.	22ND STREET	DRIVEWAY 14	3'	3'	6'
R23L	STA. 108+40.93, 61.63' RT.	22ND STREET	DRIVEWAY 16	3'	3'	6'
R23M	STA. 212+92.69, 40.61' RT.*	OLD SPANISH TRAIL	DRIVEWAY 20	3'	3'	6'
R23N	STA. 213+27.14, 40.61' RT.*	OLD SPANISH TRAIL	DRIVEWAY 20	3'	3'	6'
R23O	STA. 129+11.51, 63.50' LT.	22ND STREET	BONANZA AVENUE	6'	6'	12'
R23P	STA. 141+89.94, 62.50' LT.	22ND STREET	LELAND DRIVE	5'	5'	10'
R23Q	STA. 142+12.94, 62.50' LT.	22ND STREET	LELAND DRIVE	5'	5'	10'

CONSTRUCTION NOTES:

(5) INSTALL NEW 4" CONCRETE SIDEWALK PER PAG STD. DTL. 200.

(6) INSTALL NEW VERTICAL CURB, TYPE 2, H=6" PER PAG STD. DTL. 209.

(10) INSTALL NEW CURB ACCESS RAMP (CUSTOM).

(11) INSTALL NEW RAMP CURB PER PAG STD. DTL. 207.

(12) INSTALL NEW 2' DETECTABLE WARNING STRIP.

GENERAL NOTES:

1. REFER TO COT & PAG STD. DTL. 207 FOR ALL DETAIL REQUIREMENTS NOT INDICATED IN THIS DRAWING.
2. NOTIFY ENGINEER OF ANY SLOPE DISCREPANCIES PRIOR TO CONSTRUCTION.
3. RAMP CURB SHALL BE 6" X 12" MIN. AND EXTEND TO BOTTOM OF ADJACENT CONCRETE SIDEWALK.
4. ALL EXPOSED CORNERS SHALL BE FINISHED WITH A 3" RADIUS UNLESS OTHERWISE NOTED.

DESIGN KEY

- SLOPE 7.5% MAX.
- SLOPE 1.5% MAX.
- SLOPE 1:10 MAX.
- CONTROL POINT
- WARP CONCRETE 1.5% MAX. ANY DIRECTION.
- XX' LENGTH ALONG ARC FROM FACE OF CURB.
- RAMP PAY LIMIT.

DETAIL R23

K:\TUC_Roadway\068134220_COT 22nd Street\CADD\Sheet Files\134220d01.dwg Aug 21, 2025 Cipriano.DeLuna
XREFS: x134220ar x134220fm x134220ml x134220ms x134220mp x134220pl x134220rw-n x134220rw-s x134220sig x134220so x134220ut-e x134220ut-n x134220tt

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
RAMP DETAIL SHEETS

CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY A. GARDNER AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=5' V: N/A
PLAN NO. I-2025-004

DT11 OF DT11

20 OF 316

EXIST. R/W
CAMINO SECO
50+00
55+00
60+00
65+00
70+00
EXIST. R/W
EXIST. R/W
DRIVEWAY 1
FND UNKNOWN
22ND STREET CONST. ℄
STA: 72+14.86, OFF: 0.02 RT
NORTHING: 440590.7370
EASTING: 1045488.5860
NEW R/W
EXIST. R/W
22ND STREET CONST. ℄
22ND STREET
N 89°52'36" E 2635.31'
SM
15 16
21 22
SECTION LINE
EXIST. R/W
N 89°38'27 E
200.00'
NEW TCE
FND 2" BCSM IN HH PLS 20373
22ND STREET CONST. ℄
STA: 50+00.00
NORTHING: 440585.9930
EASTING: 1043273.7350
1
SECTION LINE
DRIVEWAY 2
DRIVEWAY 3
NEW PAE
NEW PAE
CALLE DON JUAN
OAK PARK DRIVE
NEW TCE
MATCHLINE STA 74+00 SEE BOTTOM LEFT

0 40' 80'
SCALE: 1"=40'

FND IRON PIN
22ND STREET CONST. ℄
STA: 74+60.45, OFF: 0.00 RT
NORTHING: 440591.2850
EASTING: 1045734.1760
2
FND 2" BCSM PE 1260
22ND STREET CONST. ℄
STA: 82+90.30, OFF: 0.03 RT
NORTHING: 440598.8330
EASTING: 1046563.9920
2
EXIST. R/W
FND 2" BSCM PE 1260
22ND STREET CONST. ℄
STA: 85+97.40, OFF: 0.15 RT
NORTHING: 440602.0890
EASTING: 1046871.0710
2
EXIST. R/W
MATCHLINE STA 74+00 SEE TOP RIGHT
GOLLOB ROAD
75+00
QUARTER SECTION LINE
80+00
85+00
90+00
95+00
100+00
DRIVEWAY 5
DRIVEWAY 6
DRIVEWAY 11
DRIVEWAY 13
P.I. 76+35.31
NEW R/W
NEW TCE
EXIST. R/W
EXIST. R/W
NEW TCE
NEW TCE
22ND STREET CONST. ℄
SM
SM
SM
SM
22ND STREET
N 89°22'13" E 2645.40'
SECTION LINE
DRIVEWAY 4
CALLE MARIA
DRIVEWAY 7
NEW TCE
BROWN AVENUE
EXIST. R/W
DRIVEWAY 8
DRIVEWAY 9
DRIVEWAY 10
BRUSH CANYON DRIVE
NEW TCE
NEW TCE
EXIST. R/W
NEW TCE
DRIVEWAY 12
FND 2" BCSM CONC PCHD DN.45 IN PVMT
22ND STREET CONST. ℄
STA: 76+35.31
NORTHING: 440591.6620
EASTING: 1045909.0390
FND 2" BCSM RLS 19316
22ND STREET CONST. ℄
STA: 94+21.39, OFF: 0.01 RT
NORTHING: 440611.2820
EASTING: 1047695.0150
2
MATCHLINE STA 101+00 SEE SHEET GC02

0 40' 80'
SCALE: 1"=40'

1 NEW MONUMENT WITH NEW FRAME & COVER PER PAG STD. DTL. 103

2 NEW MONUMENT PER PAG STD. DTL. 103

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
GEOMETRIC CONTROL PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY S. SPIERS AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H:1"=100' V: N/A
PLAN NO. I-2025-004

GC01 OF GN03

21 OF 316

K:\TUC_Roadway\098134220_CDT 22nd Street\CADD\Sheet Files\134220gc01.dwg, Aug 21, 2025, Cipriano.DeLuna
XREFS: x134220plan x134220plts-2D x134220row-ln x134220row-ln x134220row-ln x134220ctrl x134220plts-survey monuments

MATCHLINE STA 101+00 SEE SHEET GC01

MATCHLINE STA 128+00 SEE BOTTOM LEFT

HARRISON ROAD

OLD SPANISH TRAIL

DRIVEWAY 15

DRIVEWAY 16

DRIVEWAY 17

DRIVEWAY 18

105+00

110+00

115+00

120+00

125+00

210+00

215+00

NEW R/W

NEW SLOPE ESMT.

NEW TCE

EXIST. R/W

NEW R/W ACQUISITION

NEW DRAINAGE ESMT.

P.I. 102+80.71

P.R.C. 206+40.10

P.T. 207+56.26

P.C. 212+64.06

P.T. 214+13.86

P.O.E. 217+38.42

22ND STREET CONST. ℄

22ND STREET

N 89°22'57" E 2629.81'

SECTION LINE

OLD SPANISH TRAIL CONST. ℄

S 55°37'26" E 324.56'

15 14
22 23

FND STEM
22ND STREET CONST. ℄
STA: 112+71.42, OFF: 0.01' RT
NORTHING: 440631.4010
EASTING: 1049544.9340

FND 2" BCSM IN HH RLS 23956
22ND STREET CONST. ℄
STA: 102+80.71
NORTHING: 440620.7380
EASTING: 1048554.2810

STA: 112+72.08, 22ND STREET CONST. ℄ =
STA: 209+49.51, OLD SPANISH TRAIL CONST. ℄
NORTHING: 440631.4207
EASTING: 1049545.5911

0 40' 80'
SCALE: 1"=40'

MATCHLINE STA 128+00 SEE TOP RIGHT

BONANZA AVENUE

RED COLT ROAD

SUNCOVE DRIVE

DRIVEWAY 19

DRIVEWAY 20

DRIVEWAY 21

DRIVEWAY 22

DRIVEWAY 23

LELAND DRIVE

OLIVE WOOD DRIVE

DISCOVERY DRIVE

PRIVATE ROAD

HOUGHTON ROAD

130+00

135+00

140+00

145+00

150+00

155+00

NEW PAE

NEW TCE

NEW DRAINAGE ESMT.

P.I. 129+10.52

P.O.E. 155+51.40

22ND STREET CONST. ℄

22ND STREET

N 89°21'32" E 2640.88'

SECTION LINE

QUARTER SECTION LINE

23 24
13 13

FND 2" BCSM IN CONC RLS 25086
22ND STREET CONST. ℄
STA: 129+10.52
NORTHING: 440649.0760
EASTING: 1051183.9370

FND 2" BCSM COT RLS 30352
22ND STREET CONST. ℄
STA: 145+11.51, OFF: 0.00 LT
NORTHING: 440666.9950
EASTING: 1052784.8310

FND 2" BCSM IN HH COT RLS 30352
22ND STREET CONST. ℄
STA: 155+51.40
NORTHING: 440678.6280
EASTING: 1053824.6470

FND 2" BCSM PLS 22245
22ND STREET CONST. ℄
STA: 130+86.69, OFF: 0.03 LT
NORTHING: 440651.0740
EASTING: 1051360.0930

FND 2" BCSM LS 25286
22ND STREET CONST. ℄
STA: 134+14.92, OFF: 0.01 RT
NORTHING: 440654.7100
EASTING: 1051688.3040

0 40' 80'
SCALE: 1"=40'

1 NEW MONUMENT WITH NEW FRAME & COVER PER PAG STD. DTL. 103

2 NEW MONUMENT PER PAG STD. DTL. 103

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
GEOMETRIC CONTROL PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY S. SPIERS AUG 20 25

CHKD. BY D. BACON AUG 20 25

APPR. BY T. RHINE AUG 20 25

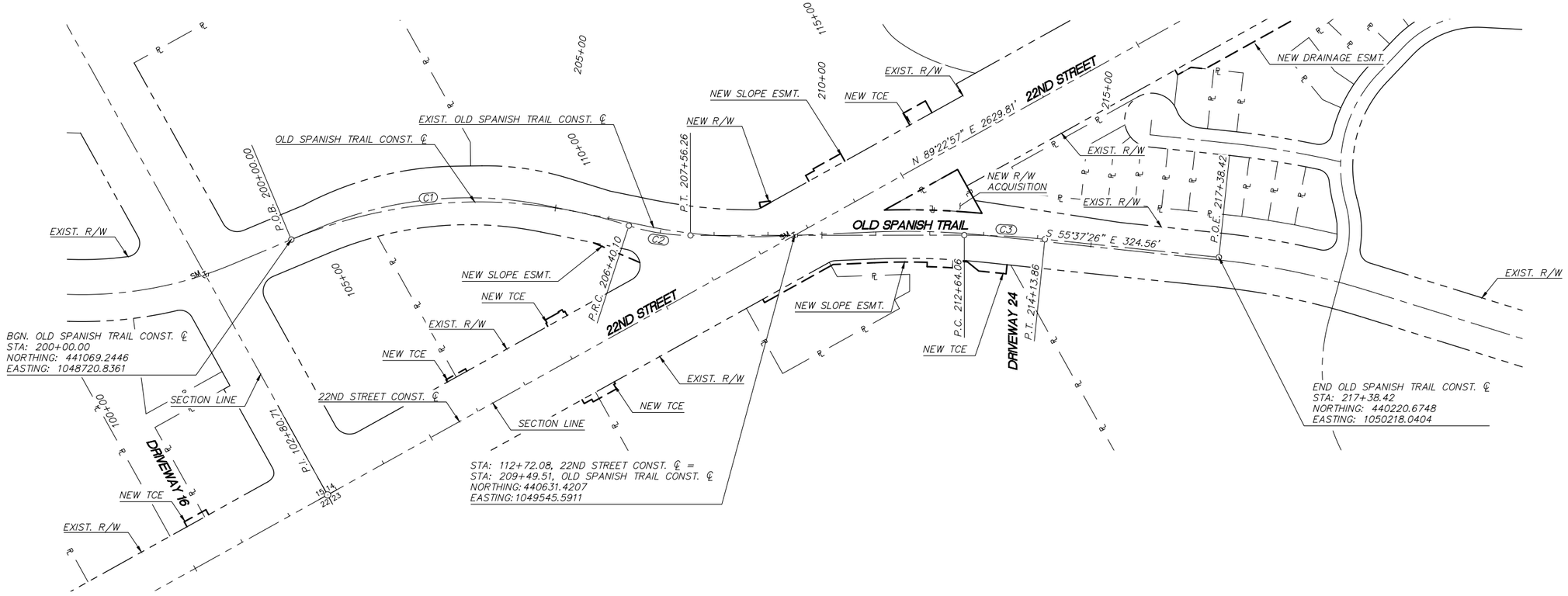
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PLAN NO. I-2025-004

GC02 OF GN03

22 OF 316

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XREFs: x134220blor x134220bts-2D x134220bts-e x134220bw-e x134220bwa x134220bwa_x134220plt-survey monuments



CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	900.00'	640.10'	40°45'00"	334.26'
C2	368.00'	116.16'	18°05'09"	58.57'
C3	1432.00'	149.80'	5°59'37"	74.97'

[1] NEW MONUMENT WITH NEW FRAME & COVER PER PAG STD. DTL. 103

[2] NEW MONUMENT PER PAG STD. DTL. 103

Kimley»Horn

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
GEOMETRIC CONTROL PLAN SHEETS - OLD SPANISH TRAIL

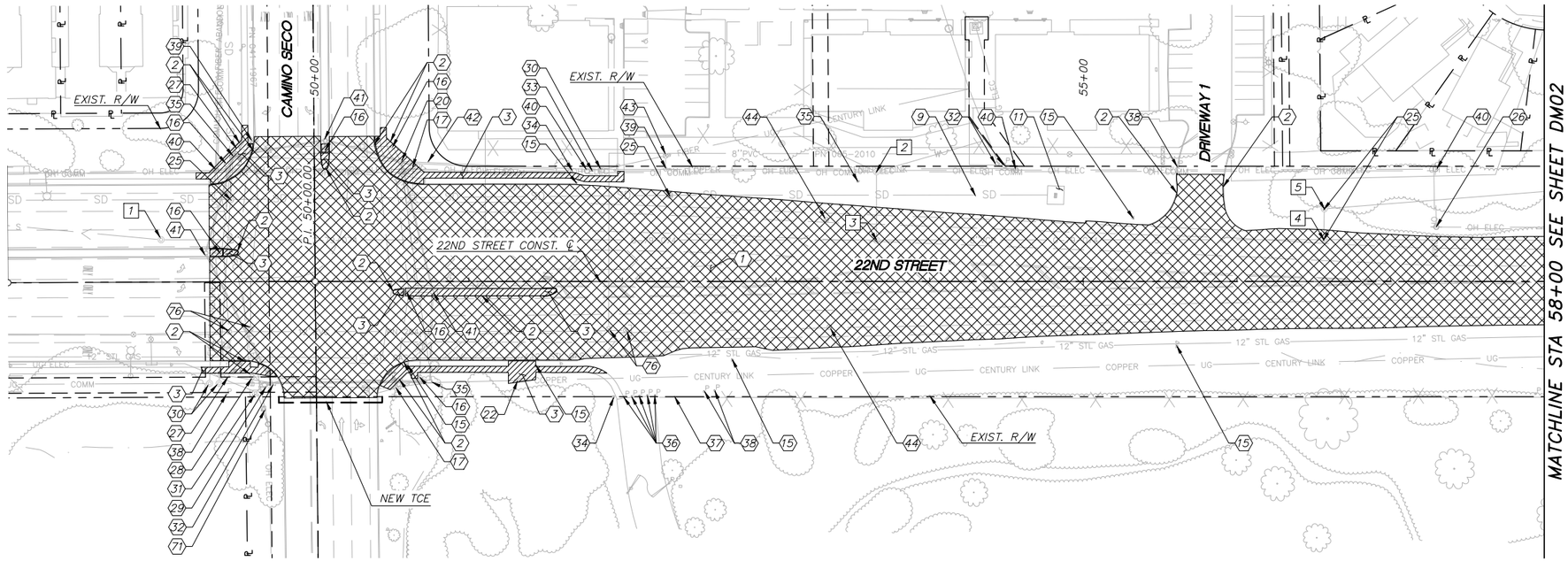
CITY OF TUCSON

DRWN. BY S. SPIERS AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=100' V: N/A
PLAN NO. I-2025-004

GC03 OF GN03

23 OF 316

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DEMOLITION NOTES:

1. SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
2. REMOVE EXISTING CONCRETE CURB.
3. REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
9. REMOVE EXISTING PIPE.
11. REMOVE EXISTING CATCH BASIN.
15. EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
16. REMOVE EXISTING SIGNAL POLE AND FOUNDATION.
17. REMOVE EXISTING LIGHT POLE AND FOUNDATION.
20. REMOVE EXISTING PULLBOX.
22. REMOVE AND SALVAGE EXISTING BUS STOP BENCH. SEE CIVIL PLANS FOR NEW SHELTER.
25. EXISTING UTILITY MANHOLE, ADJUST TO GRADE (BY OTHERS).
26. EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
27. EXISTING LIGHT POLE AND FOUNDATION, PROTECT IN PLACE.
28. EXISTING SIGNAL POLE AND FOUNDATION, PROTECT IN PLACE.
29. EXISTING SIGNAL CABINET, PROTECT IN PLACE.
30. EXISTING UTILITY MANHOLE, PROTECT IN PLACE.
31. EXISTING POWER METER, PROTECT IN PLACE.
32. EXISTING PULLBOX, PROTECT IN PLACE.
33. EXISTING UTILITY PEDESTAL, PROTECT IN PLACE.
34. EXISTING SIGN, PROTECT IN PLACE.
35. EXISTING PULLBOX, ADJUST TO GRADE.
36. EXISTING BOLLARD, PROTECT IN PLACE.
37. EXISTING WALL/FENCE, PROTECT IN PLACE.
38. EXISTING POST, PROTECT IN PLACE.
39. EXISTING FIRE HYDRANT, PROTECT IN PLACE.
40. EXISTING UTILITY POLE, PROTECT IN PLACE.
41. REMOVE EXISTING PULL BOX.
42. REMOVE EXISTING CONDUIT.
43. EXISTING VALVE, PROTECT IN PLACE.
44. EXISTING VALVE, ADJUST TO GRADE (BY OTHERS).
71. EXISTING TRANSFORMER, PROTECT IN PLACE.
76. REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.
2. SEE STORM DRAIN PLANS FOR EXTENTS OF PIPE REMOVAL.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

- REMOVAL OF EXISTING PAVEMENT
- REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
- MILL EXISTING PAVEMENT

0 40' 80'
SCALE: 1"=40'

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

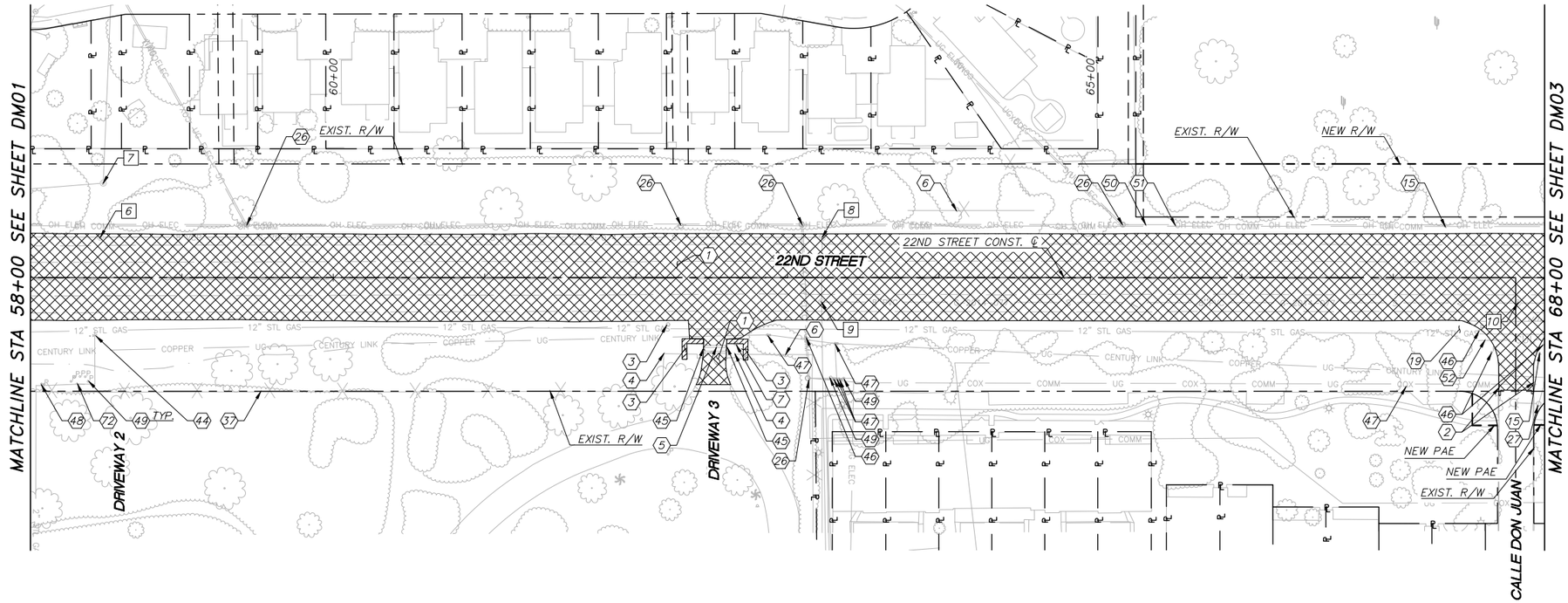
CITY OF TUCSON

DRWN. BY C. DE LUNA	CHKD. BY D. BACON	APPR. BY T. RHINE
AUG 20 25	AUG 20 25	AUG 20 25

SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM01 OF DM12
24 OF 316

K:\TUC_Roadway\098134220_CDT 22nd Street\CAD\Sheet Files\134220dm01.dwg, Aug 21, 2025, Cipriano.DeLuna
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0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

(1) SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
(2) REMOVE EXISTING CONCRETE CURB.
(3) REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
(4) REMOVE EXISTING WALL.
(5) REMOVE EXISTING CATTLE GUARD.
(6) REMOVE EXISTING FENCE TO NEAREST SUPPORT POST.
(7) RELOCATE EXISTING MAILBOX.
(15) EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
(19) REMOVE AND SALVAGE EXISTING LANDSCAPE ROCK.
(26) EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
(27) EXISTING LIGHT POLE AND FOUNDATION, PROTECT IN PLACE.
(37) EXISTING WALL/FENCE, PROTECT IN PLACE.
(44) EXISTING VALVE, ADJUST TO GRADE (BY OTHERS).
(45) REMOVE EXISTING BRICK.
(46) REMOVE EXISTING POST.
(47) EXISTING UTILITY PEDESTAL, RELOCATE (BY OTHERS).
(48) EXISTING VALVE, RELOCATE (BY OTHERS).
(49) REMOVE EXISTING BOLLARD.
(50) REMOVE EXISTING CONDUIT.
(51) REMOVE EXISTING GUY WIRE CONNECTION.
(52) REMOVE EXISTING DRAINAGE CULVERT.
(72) EXISTING REGULATOR STATION, RELOCATE (BY OTHERS).

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

REMOVAL OF EXISTING PAVEMENT
REMOVAL OF EXISTING SIDEWALK AND CONC. BIKES
MILL EXISTING PAVEMENT

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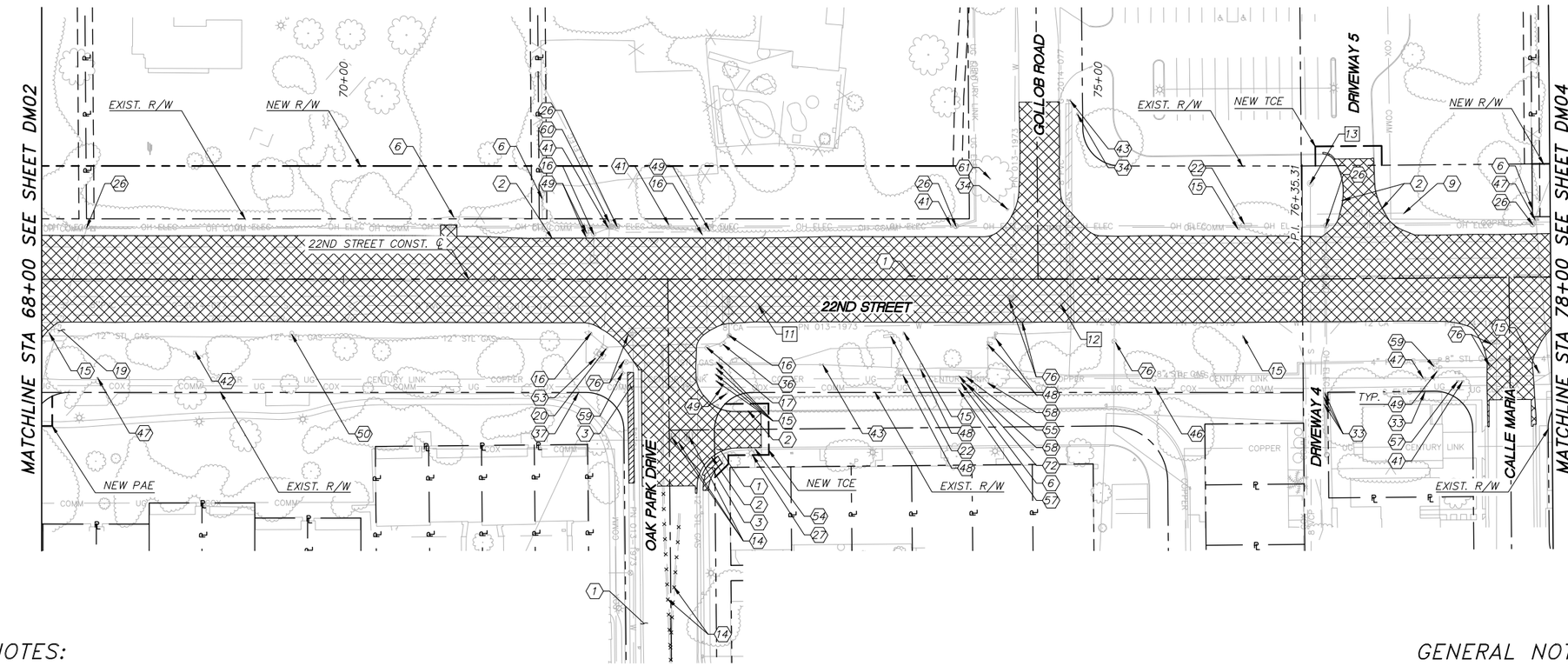
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY C. DE LUNA	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=40' V: N/A
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

DM02 OF DM12
25 OF 316

K:\TUC_Roadway\069134220_CDT 22nd Street\CAD\Sheet Files\134220dm01.dwg Aug 21, 2025 Cipriano.DeLuna
XREFs: x134220netroute x134220plan x134220ove-t x134220ove x134220dar x134220dm x134220mpp x134220mss x134220sig x134220ver-nesmsp x134220dem x134220util-n



0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

1. SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
2. REMOVE EXISTING CONCRETE CURB.
3. REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
6. REMOVE EXISTING FENCE TO NEAREST SUPPORT POST.
9. REMOVE EXISTING PIPE.
14. OBLITERATE EXISTING STRIPING. ASPHALT SCARRING AS A RESULT OF OBLITERATION SHALL REQUIRE APPLICATION OF A FOG SEAL CSS–1 AT A RATE OF 0.06 TO 0.08 GALLONS PER SQUARE YARD OVER THE REMOVED PAINT STRIPE.
15. EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
16. REMOVE EXISTING SIGNAL POLE AND FOUNDATION.
17. REMOVE EXISTING LIGHT POLE AND FOUNDATION.
19. REMOVE AND SALVAGE EXISTING LANDSCAPE ROCK.
20. REMOVE EXISTING PULLBOX.
22. REMOVE AND SALVAGE EXISTING BUS STOP BENCH. SEE CIVIL PLANS FOR NEW SHELTER.
26. EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
27. EXISTING LIGHT POLE AND FOUNDATION, PROTECT IN PLACE.
33. EXISTING UTILITY PEDESTAL, PROTECT IN PLACE.
34. EXISTING SIGN, PROTECT IN PLACE.
36. EXISTING BOLLARD, PROTECT IN PLACE.
37. EXISTING WALL/FENCE, PROTECT IN PLACE.
41. REMOVE EXISTING PULL BOX.
42. REMOVE EXISTING CONDUIT.
43. EXISTING VALVE, PROTECT IN PLACE.
46. REMOVE EXISTING POST.
47. EXISTING UTILITY PEDESTAL, RELOCATE (BY OTHERS).
48. EXISTING VALVE, RELOCATE (BY OTHERS).
49. REMOVE EXISTING BOLLARD.
50. REMOVE EXISTING CONDUIT.
53. REMOVE AND RELOCATE EXISTING SIGNAL CABINET.
54. REMOVE AND SALVAGE EXISTING PAINTED WEDGE CURB.
55. EXISTING POST, RELOCATE (BY OTHERS).
57. REMOVE EXISTING FOUNDATION.
58. REMOVE EXISTING IRRIGATION VALVE.
59. REMOVE AND RELOCATE EXISTING FIRE HYDRANT.
60. REMOVE EXISTING UTILITY METER.
61. REMOVE EXISTING TREE.
72. EXISTING SOUTHWEST GAS REGULATORY STATION, RELOCATE (BY OTHERS).
76. REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

- REMOVAL OF EXISTING PAVEMENT
- REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
- MILL EXISTING PAVEMENT

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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS – 22ND STREET

CITY OF TUCSON

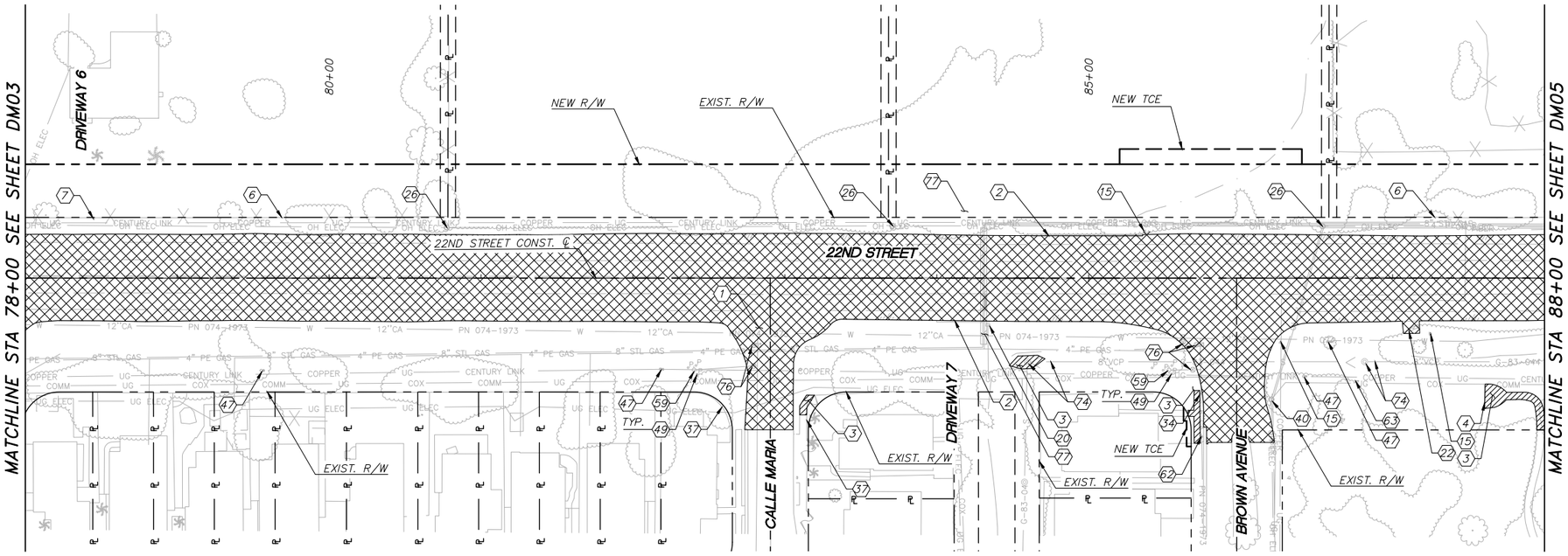
DRWN. BY C. DE LUNA	CHKD. BY D. BACON	APPR. BY T. RHINE
AUG 20 25	AUG 20 25	AUG 20 25

SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM03 OF DM12

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K:\TUC_Roadway\098134220_CDT 22nd Street\CADD\Sheet Files\134220dm01.dwg Aug 21, 2025 Cipriano.DeLuna
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0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

(1) SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
(2) REMOVE EXISTING CONCRETE CURB.
(3) REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
(4) REMOVE EXISTING WALL.
(6) REMOVE EXISTING FENCE TO NEAREST SUPPORT POST.
(7) RELOCATE EXISTING MAILBOX.
(15) EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
(20) REMOVE EXISTING PULLBOX.
(22) REMOVE AND SALVAGE EXISTING BUS STOP BENCH. SEE CIVIL PLANS FOR NEW SHELTER.
(26) EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
(34) EXISTING SIGN, PROTECT IN PLACE.
(37) EXISTING WALL/FENCE, PROTECT IN PLACE.
(40) EXISTING UTILITY POLE, PROTECT IN PLACE.
(47) EXISTING UTILITY PEDESTAL, RELOCATE (BY OTHERS).
(49) REMOVE EXISTING BOLLARD.
(59) REMOVE AND RELOCATE EXISTING FIRE HYDRANT.
(62) EXISTING MAILBOX, PROTECT IN PLACE.
(63) REMOVE AND RELOCATE EXISTING MEMORIAL CROSS.
(74) REMOVE EXISTING SEWER MANHOLE AND PIPE, SEE PUBLIC SEWER IMPROVEMENT PLANS.
(76) REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.
(77) REMOVE EXISTING RIPRAP.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

REMOVAL OF EXISTING PAVEMENT
REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
MILL EXISTING PAVEMENT

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
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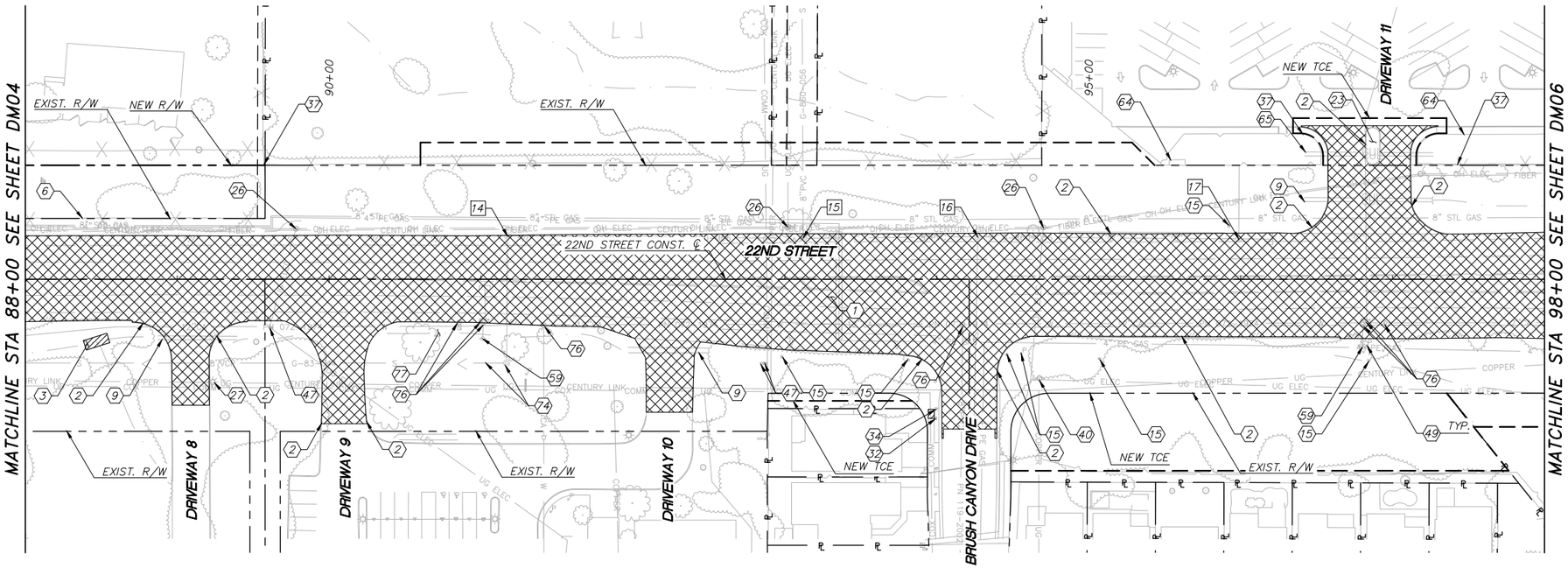
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

CITY OF TUCSON
DRWN. BY C. DE LUNA AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM04 OF DM12
27 OF 316

K:\TUC_Roadway\068134220_CDT 22nd Street\CADD\Sheet Files\134220dm01.dwg Aug 21, 2025 Cipriano.DeLuna
XREFS: x134220effects x134220ltr01 x134220ltr x134220ltr-1 x134220ltr-2 x134220ltr-3 x134220ltr-4 x134220dm x134220mp x134220mos x134220dng x134220ser-nesrmap x134220ltr-n x134220dm-n



0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

(1) SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
(2) REMOVE EXISTING CONCRETE CURB.
(3) REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
(6) REMOVE EXISTING FENCE TO NEAREST SUPPORT POST.
(9) REMOVE EXISTING PIPE.
(15) EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
(23) EXISTING VEGETATION, PROTECT IN PLACE.
(26) EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
(27) EXISTING LIGHT POLE AND FOUNDATION, PROTECT IN PLACE.
(32) EXISTING PULLBOX, PROTECT IN PLACE.
(34) EXISTING SIGN, PROTECT IN PLACE.
(37) EXISTING WALL/FENCE, PROTECT IN PLACE.
(40) EXISTING UTILITY POLE, PROTECT IN PLACE.
(47) EXISTING UTILITY PEDESTAL, RELOCATE (BY OTHERS).
(49) REMOVE EXISTING BOLLARD.
(59) REMOVE AND RELOCATE EXISTING FIRE HYDRANT, SEE WATER MODIFICATION PLANS.
(64) EXISTING CATCH BASIN, PROTECT IN PLACE.
(65) EXISTING PIPE, PROTECT IN PLACE.
(74) REMOVE EXISTING SEWER MANHOLE AND PIPE, SEE PUBLIC SEWER IMPROVEMENT PLANS.
(76) REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.
(77) REMOVE EXISTING RIPRAP.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

REMOVAL OF EXISTING PAVEMENT
REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
MILL EXISTING PAVEMENT

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

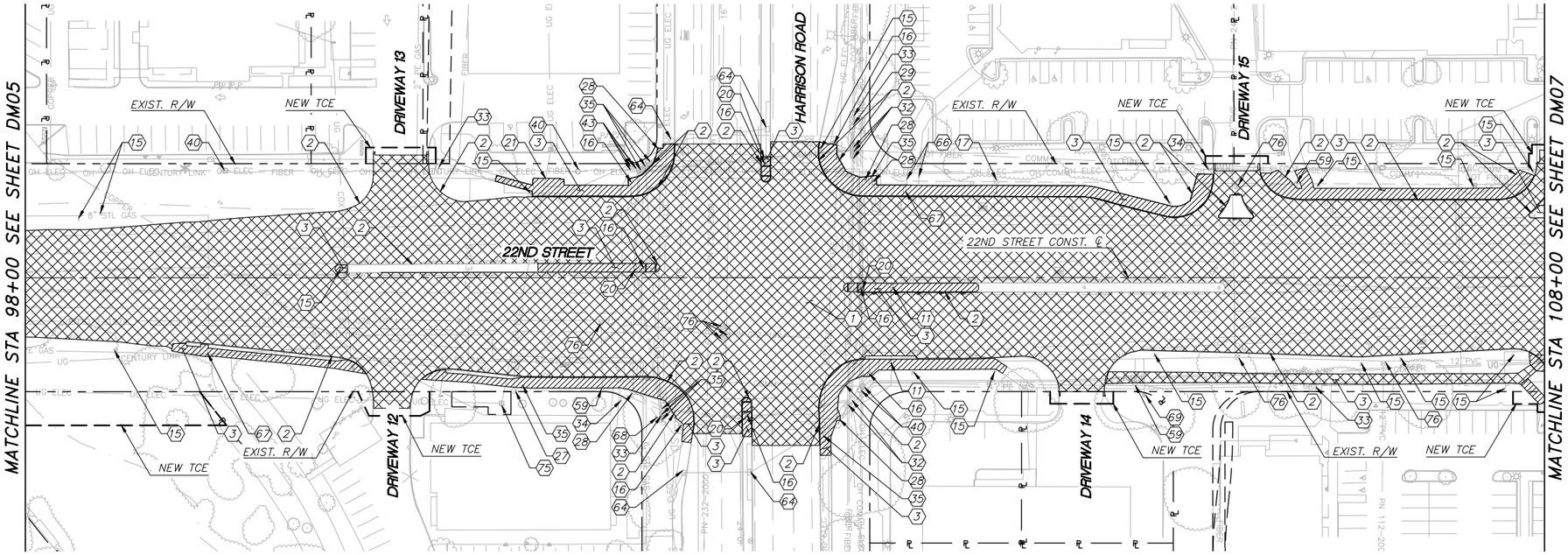
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY C. DE LUNA AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM05 OF DM12
28 OF 316

K:\TUC_Roadway\098134220_22ST 22nd Street\CADD\Sheet Files\134220dm01.dwg Aug 21, 2025 Cipriano.DeLuna
XREFS: x134220ttlblk x134220dtl-n x134220dtl-e x134220dtl-w x134220dtl-s x134220dtl-ne x134220dtl-nw x134220dtl-se x134220dtl-sw



0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

(1) SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
(2) REMOVE EXISTING CONCRETE CURB.
(3) REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
(11) REMOVE EXISTING CATCH BASIN.
(15) EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
(16) REMOVE EXISTING SIGNAL POLE AND FOUNDATION.
(17) REMOVE EXISTING LIGHT POLE AND FOUNDATION.
(20) REMOVE EXISTING PULLBOX.
(21) REMOVE AND SALVAGE EXISTING BUS STOP SHELTER. SEE CIVIL PLANS TO RELOCATE.
(27) EXISTING LIGHT POLE AND FOUNDATION, PROTECT IN PLACE.
(28) EXISTING SIGNAL POLE AND FOUNDATION, PROTECT IN PLACE.
(29) EXISTING SIGNAL CABINET, PROTECT IN PLACE.
(32) EXISTING PULLBOX, PROTECT IN PLACE.
(33) EXISTING UTILITY PEDESTAL, PROTECT IN PLACE.
(34) EXISTING SIGN, PROTECT IN PLACE.
(35) EXISTING PULLBOX, ADJUST TO GRADE.
(40) EXISTING UTILITY POLE, PROTECT IN PLACE.
(43) EXISTING VALVE, PROTECT IN PLACE.
(59) REMOVE AND RELOCATE EXISTING FIRE HYDRANT, SEE WATER MODIFICATION PLANS.
(64) EXISTING CATCH BASIN, PROTECT IN PLACE.
(66) EXISTING SIDEWALK RAMP CONNECTION AND HANDRAIL, PROTECT IN PLACE.
(67) REMOVE EXISTING SCUPPER.
(68) EXISTING MEMORIAL CROSS, PROTECT IN PLACE.
(69) EXISTING WATER METER, PROTECT IN PLACE.
(75) EXISTING TRANSFORMER, WALL, AND PAD, PROTECT IN PLACE.
(76) REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.

SHEET LEGEND:

REMOVAL OF EXISTING PAVEMENT
REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
MILL EXISTING PAVEMENT

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

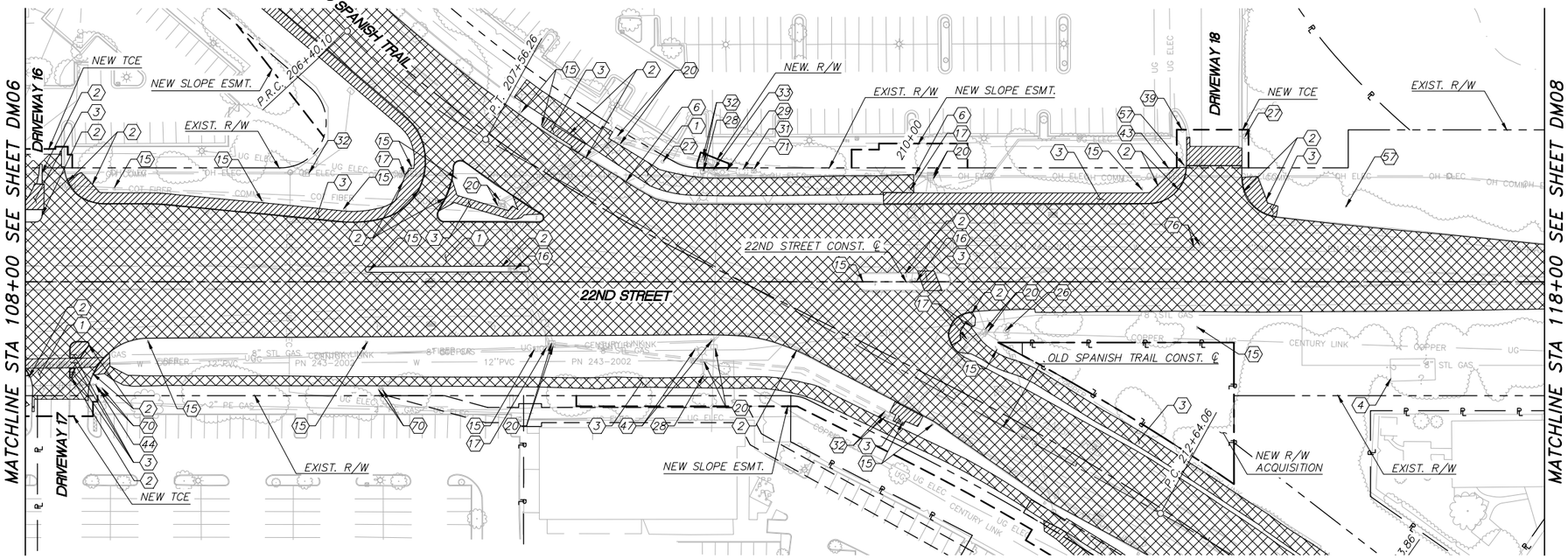
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

CITY OF TUCSON
DRWN. BY C. DE LUNA AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM06 OF DM12
29 OF 316

K:\TUC_Roadway\098134220_CDT 22nd Street\CADD\Sheet Files\134220dm01.dwg Aug 21, 2025 Cipriano.DeLuna
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0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

(1) SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
(2) REMOVE EXISTING CONCRETE CURB.
(3) REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
(4) REMOVE EXISTING WALL.
(6) REMOVE EXISTING FENCE TO NEAREST SUPPORT POST.
(15) EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
(16) REMOVE EXISTING SIGNAL POLE AND FOUNDATION.
(17) REMOVE EXISTING LIGHT POLE AND FOUNDATION.
(20) REMOVE EXISTING PULLBOX.
(26) EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
(27) EXISTING LIGHT POLE AND FOUNDATION, PROTECT IN PLACE.
(28) EXISTING SIGNAL POLE AND FOUNDATION, PROTECT IN PLACE.
(29) EXISTING SIGNAL CABINET, PROTECT IN PLACE.
(31) EXISTING POWER METER, PROTECT IN PLACE.
(32) EXISTING PULLBOX, PROTECT IN PLACE.
(33) EXISTING UTILITY PEDESTAL, PROTECT IN PLACE.
(39) EXISTING FIRE HYDRANT, PROTECT IN PLACE.
(43) EXISTING VALVE, PROTECT IN PLACE.
(44) EXISTING VALVE, ADJUST TO GRADE (BY OTHERS).
(47) EXISTING UTILITY PEDESTAL, RELOCATE (BY OTHERS).
(57) REMOVE EXISTING FOUNDATION.
(70) EXISTING IRRIGATION VALVE, ADJUST TO GRADE.
(71) EXISTING TRANSFORMER, PROTECT IN PLACE.
(76) REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

REMOVAL OF EXISTING PAVEMENT
REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
MILL EXISTING PAVEMENT

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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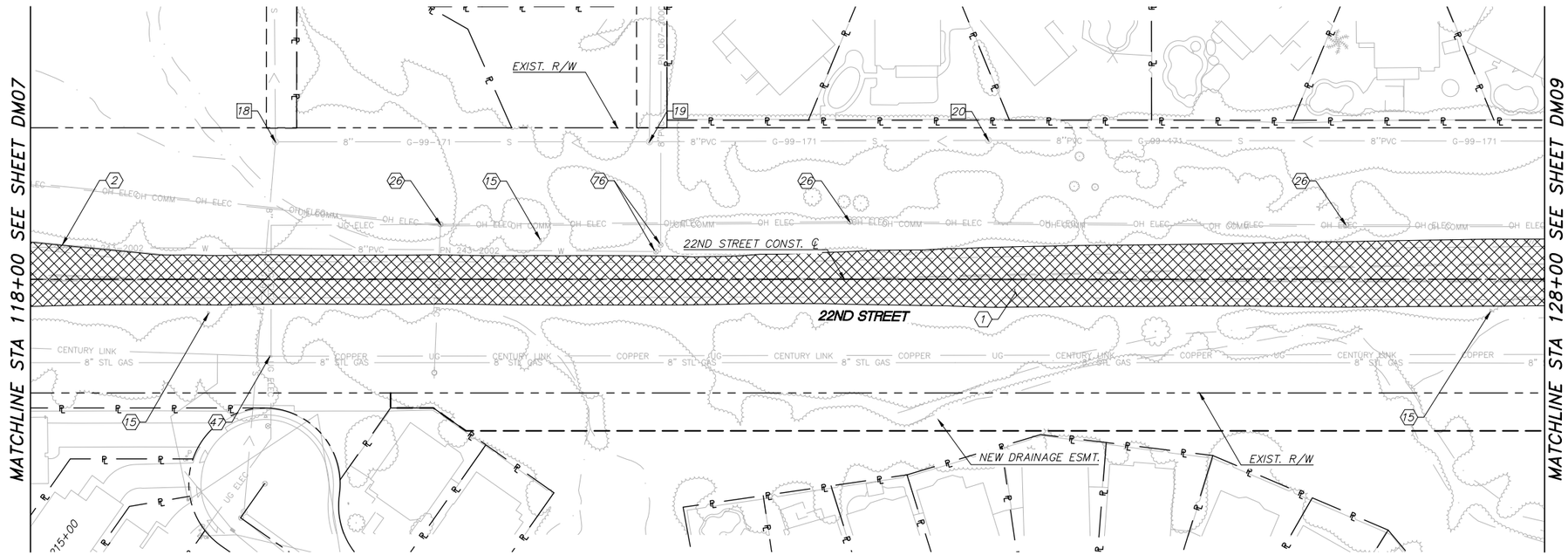
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

CITY OF TUCSON
DRWN. BY C. DE LUNA AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM07 OF DM12
30 OF 316

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0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

1. SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
2. REMOVE EXISTING CONCRETE CURB.
15. EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
26. EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
47. EXISTING UTILITY PEDESTAL, RELOCATE (BY OTHERS).
76. REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

- REMOVAL OF EXISTING PAVEMENT
- REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
- MILL EXISTING PAVEMENT

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

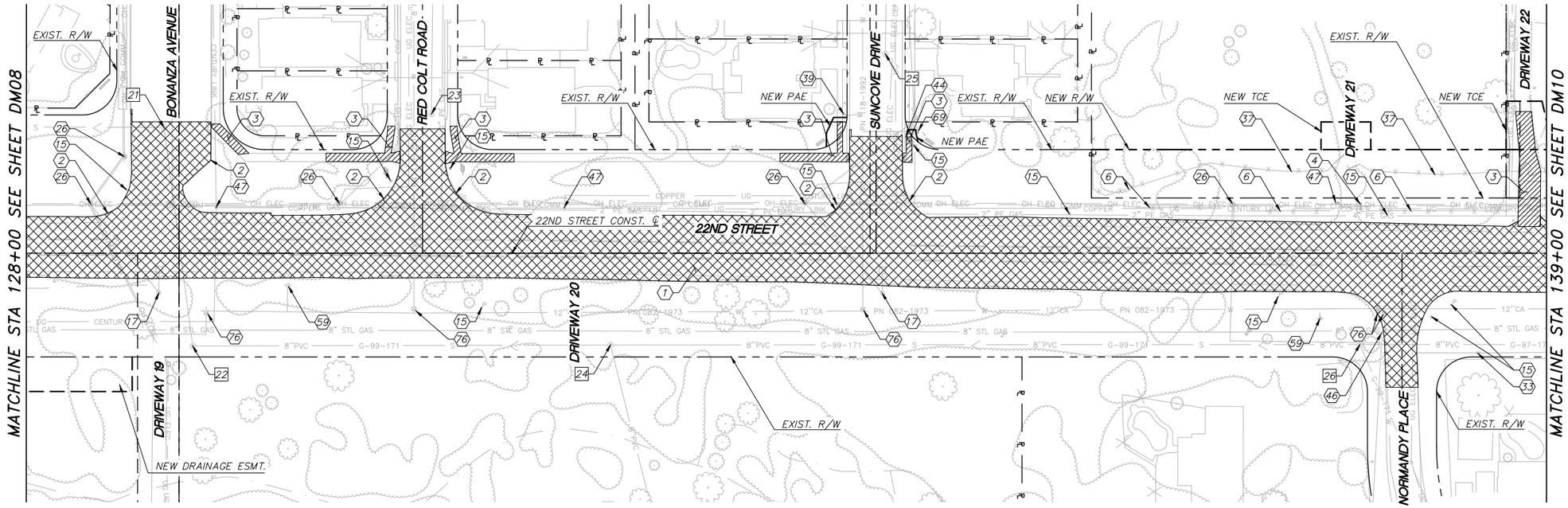
CITY OF TUCSON

DRWN. BY C. DE LUNA AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM08 OF DM12
31 OF 316

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0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

(1) SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
(2) REMOVE EXISTING CONCRETE CURB.
(3) REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
(4) REMOVE EXISTING WALL.
(6) REMOVE EXISTING FENCE TO NEAREST SUPPORT POST.
(15) EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
(17) REMOVE EXISTING LIGHT POLE AND FOUNDATION.
(26) EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
(33) EXISTING UTILITY PEDESTAL, PROTECT IN PLACE.
(37) EXISTING WALL/FENCE, PROTECT IN PLACE.
(39) EXISTING FIRE HYDRANT, PROTECT IN PLACE.
(44) EXISTING VALVE, ADJUST TO GRADE (BY OTHERS).
(46) REMOVE EXISTING POST.
(47) EXISTING UTILITY PEDESTAL, RELOCATE (BY OTHERS).
(59) REMOVE AND RELOCATE EXISTING FIRE HYDRANT, SEE WATER MODIFICATION PLANS.
(69) EXISTING WATER METER, PROTECT IN PLACE.
(76) REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

REMOVAL OF EXISTING PAVEMENT
REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
MILL EXISTING PAVEMENT

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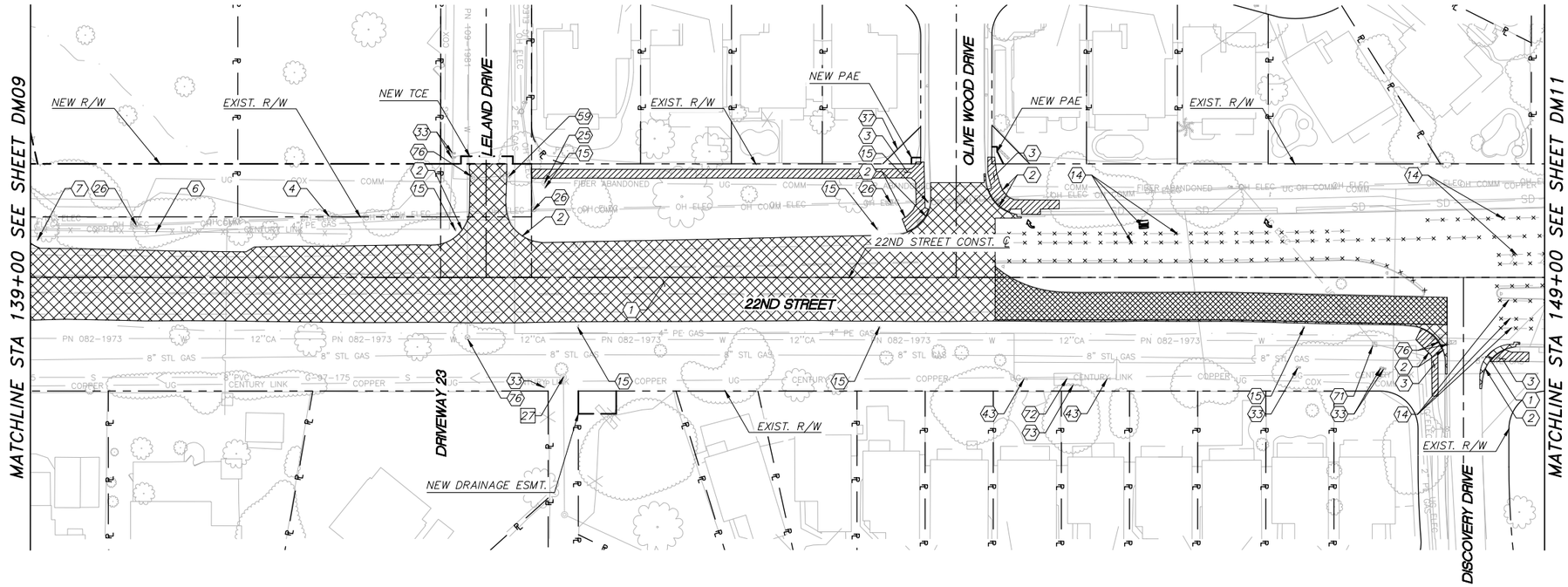
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY C. DE LUNA AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM09 OF DM12
32 OF 316

K:\TUC_Roadway\098134220_CDT 22nd Street\CADD\Sheet Files\134220dm01.dwg Aug 21, 2025 Cipriano.DeLuna
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0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

(1) SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.

(2) REMOVE EXISTING CONCRETE CURB.

(3) REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.

(4) REMOVE EXISTING WALL.

(6) REMOVE EXISTING FENCE TO NEAREST SUPPORT POST.

(7) RELOCATE EXISTING MAILBOX.

(14) OBLITERATE EXISTING STRIPING. ASPHALT SCARRING AS A RESULT OF OBLITERATION SHALL REQUIRE APPLICATION OF A FOG SEAL CSS-1 AT A RATE OF 0.06 TO 0.08 GALLONS PER SQUARE YARD OVER THE REMOVED PAINT STRIPE.

(15) EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.

(25) EXISTING UTILITY MANHOLE, ADJUST TO GRADE (BY OTHERS).

(26) EXISTING UTILITY POLE, RELOCATE (BY OTHERS).

(33) EXISTING UTILITY PEDESTAL, PROTECT IN PLACE.

(37) EXISTING WALL/FENCE, PROTECT IN PLACE.

(43) EXISTING VALVE, PROTECT IN PLACE.

(59) REMOVE AND RELOCATE EXISTING FIRE HYDRANT, SEE WATER MODIFICATION PLANS.

(71) EXISTING TRANSFORMER, PROTECT IN PLACE.

(72) EXISTING REGULATOR STATION, RELOCATE (BY OTHERS).

(73) REMOVE EXISTING FENCE.

(76) REMOVE EXISTING VALVE, SEE WATER MODIFICATION PLANS.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

REMOVAL OF EXISTING PAVEMENT

REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS

MILL EXISTING PAVEMENT

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

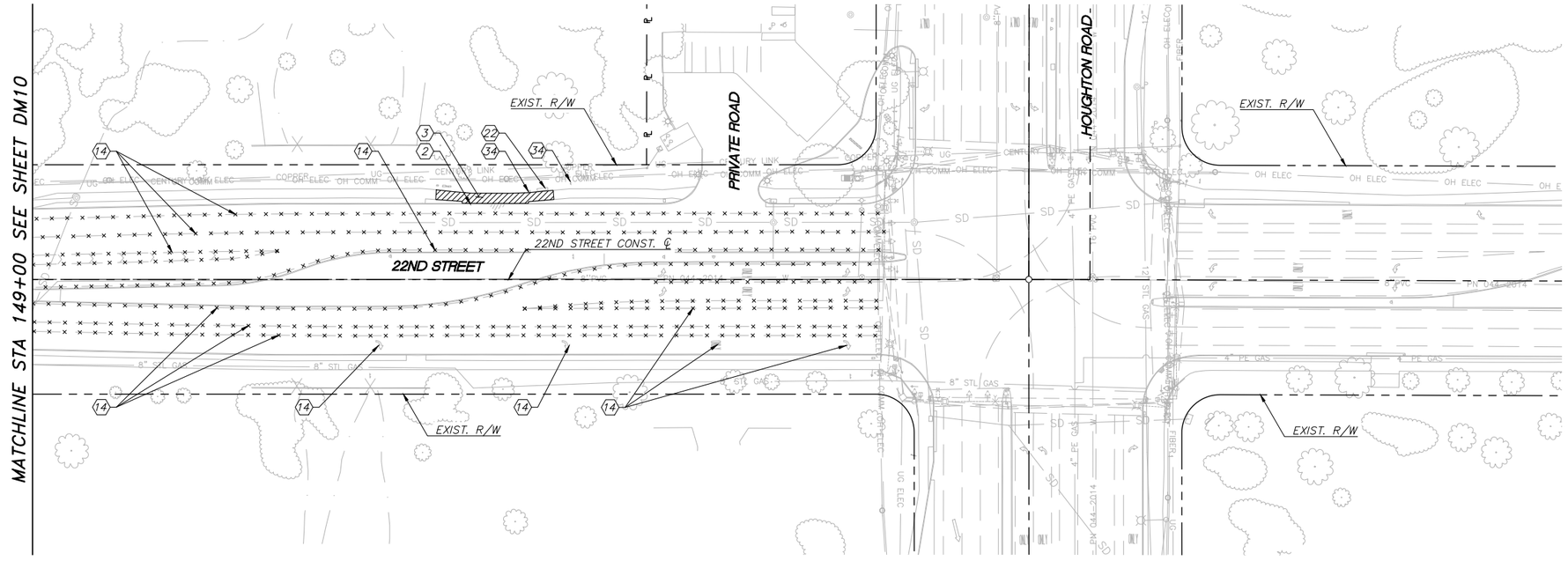
CITY OF TUCSON

DRWN. BY C. DE LUNA AUG 20 25.
CHKD. BY D. BACON AUG 20 25.
APPR. BY T. RHINE AUG 20 25.
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM10 OF DM12

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0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

(2) REMOVE EXISTING CONCRETE CURB.

(3) REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.

(14) OBLITERATE EXISTING STRIPING. ASPHALT SCARRING AS A RESULT OF OBLITERATION SHALL REQUIRE APPLICATION OF A FOG SEAL CSS-1 AT A RATE OF 0.06 TO 0.08 GALLONS PER SQUARE YARD OVER THE REMOVED PAINT STRIPE.

(22) REMOVE AND SALVAGE EXISTING BUS STOP BENCH. SEE CIVIL PLANS FOR NEW SHELTER.

(34) EXISTING SIGN, PROTECT IN PLACE.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

REMOVAL OF EXISTING PAVEMENT

REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS

MILL EXISTING PAVEMENT

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEETS - 22ND STREET

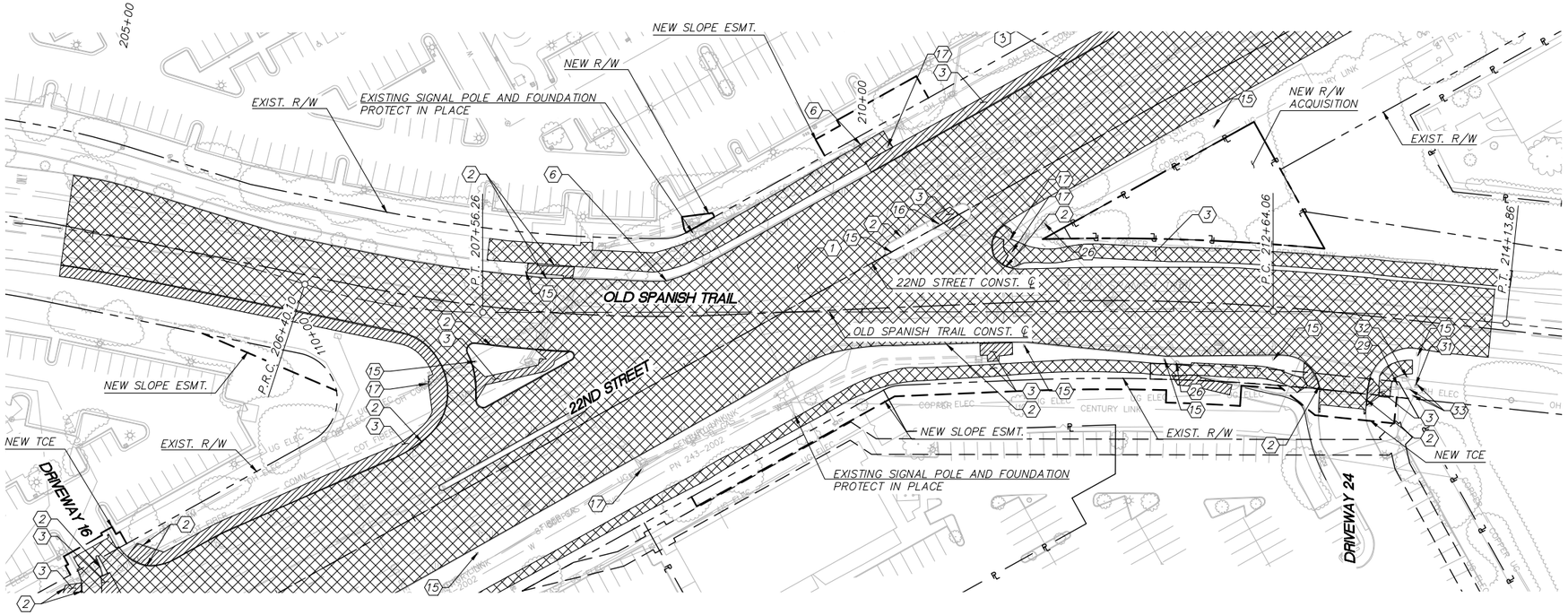
CITY OF TUCSON

DRWN. BY C. DE LUNA AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

DM11 OF DM12

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0 40' 80'
SCALE: 1"=40'

DEMOLITION NOTES:

1. SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING ASPHALTIC CONCRETE PAVEMENT.
2. REMOVE EXISTING CONCRETE CURB.
3. REMOVE EXISTING CONCRETE. LOCATIONS SHOWN ARE APPROXIMATE TO NEAREST JOINT/PANEL.
6. REMOVE EXISTING FENCE TO NEAREST SUPPORT POST.
15. EXISTING SIGN, REMOVE AND SALVAGE. SEE SIGNING GENERAL NOTES.
16. REMOVE EXISTING SIGNAL POLE AND FOUNDATION.
17. REMOVE EXISTING LIGHT POLE AND FOUNDATION.
26. EXISTING UTILITY POLE, RELOCATE (BY OTHERS).
29. EXISTING SIGNAL CABINET, PROTECT IN PLACE.
31. EXISTING POWER METER, PROTECT IN PLACE.
32. EXISTING PULLBOX, PROTECT IN PLACE.
33. EXISTING UTILITY PEDESTAL, PROTECT IN PLACE.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

[X] SEE GENERAL NOTES SHEET GN03.

SHEET LEGEND:

- REMOVAL OF EXISTING PAVEMENT
- REMOVAL OF EXISTING SIDEWALK AND CONC. SLABS
- MILL EXISTING PAVEMENT

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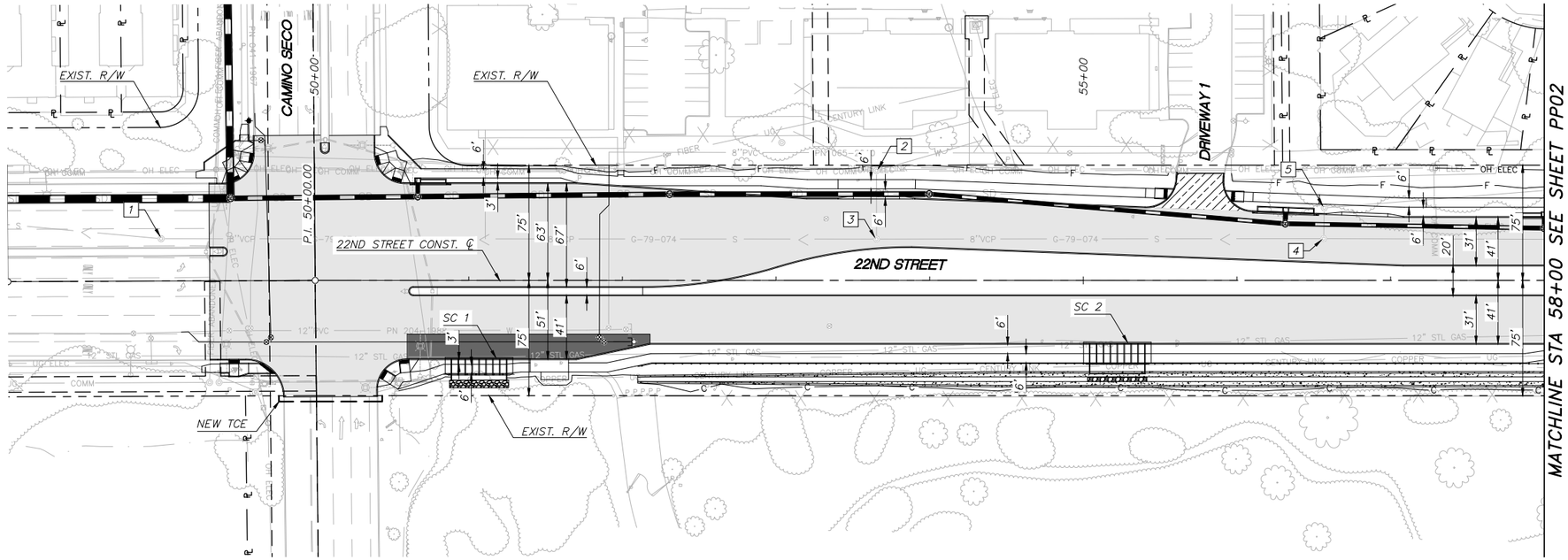
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DEMOLITION PLAN SHEET - OLD SPANISH TRAIL

CITY OF TUCSON

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CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

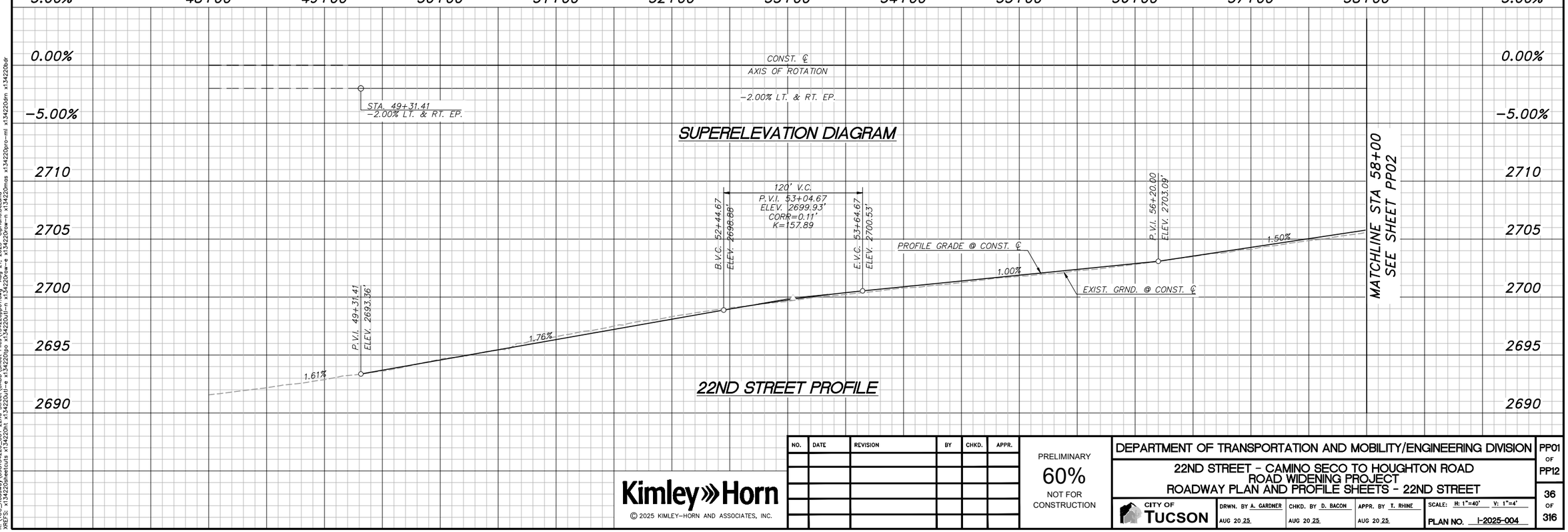
DM12 OF DM12
35 OF 316

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GENERAL NOTES:

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

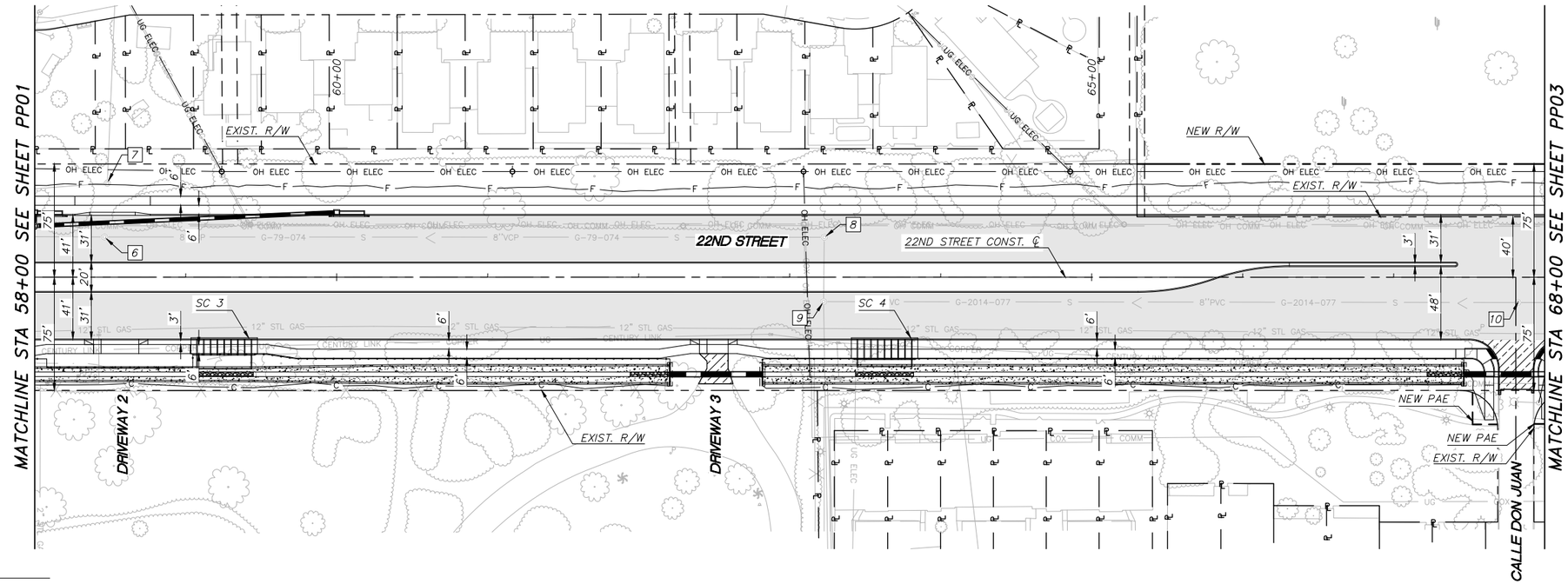
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=40' V: 1"=4'
A. GARDNER AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

PP01 OF PP12

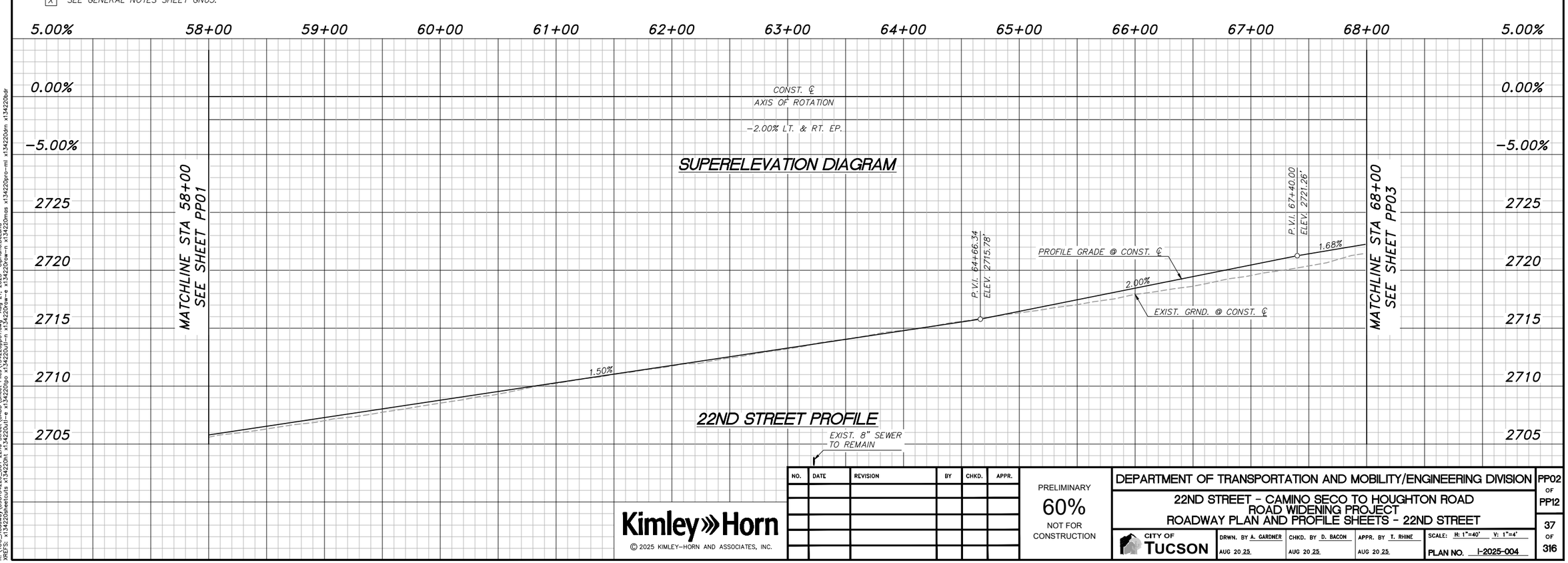
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GENERAL NOTES:

[X] SEE GENERAL NOTES SHEET GN03.



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ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

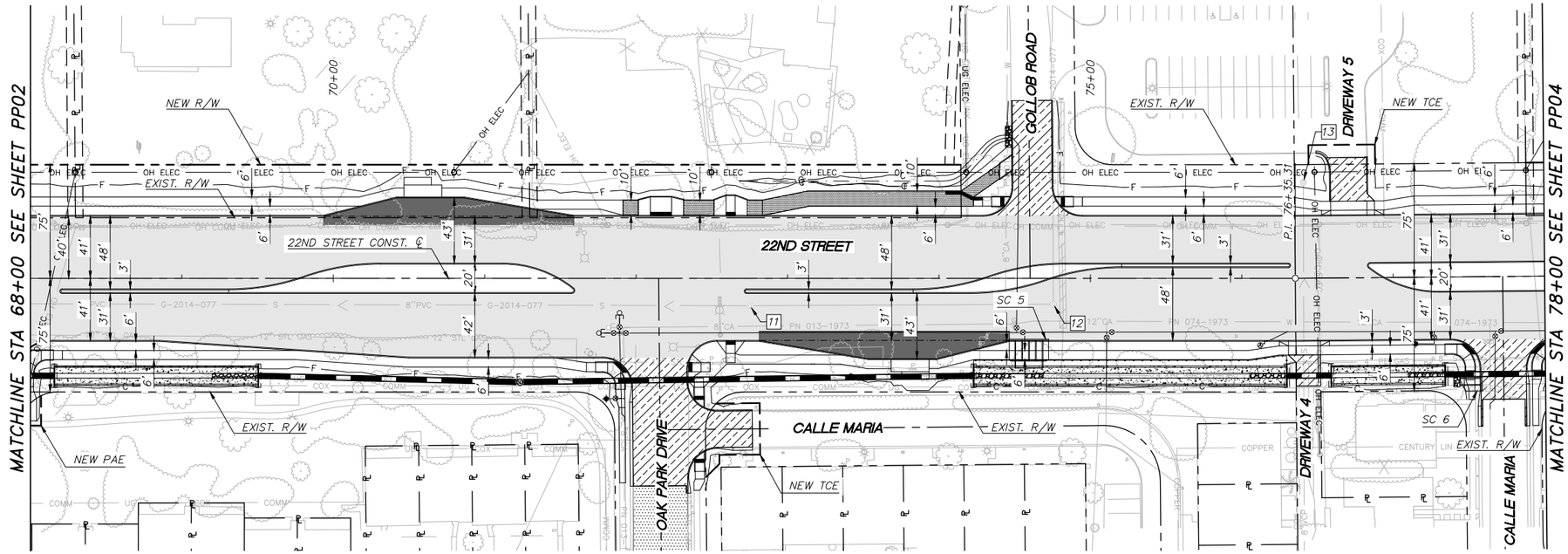
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=40' V: 1"=4'
A. GARDNER AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

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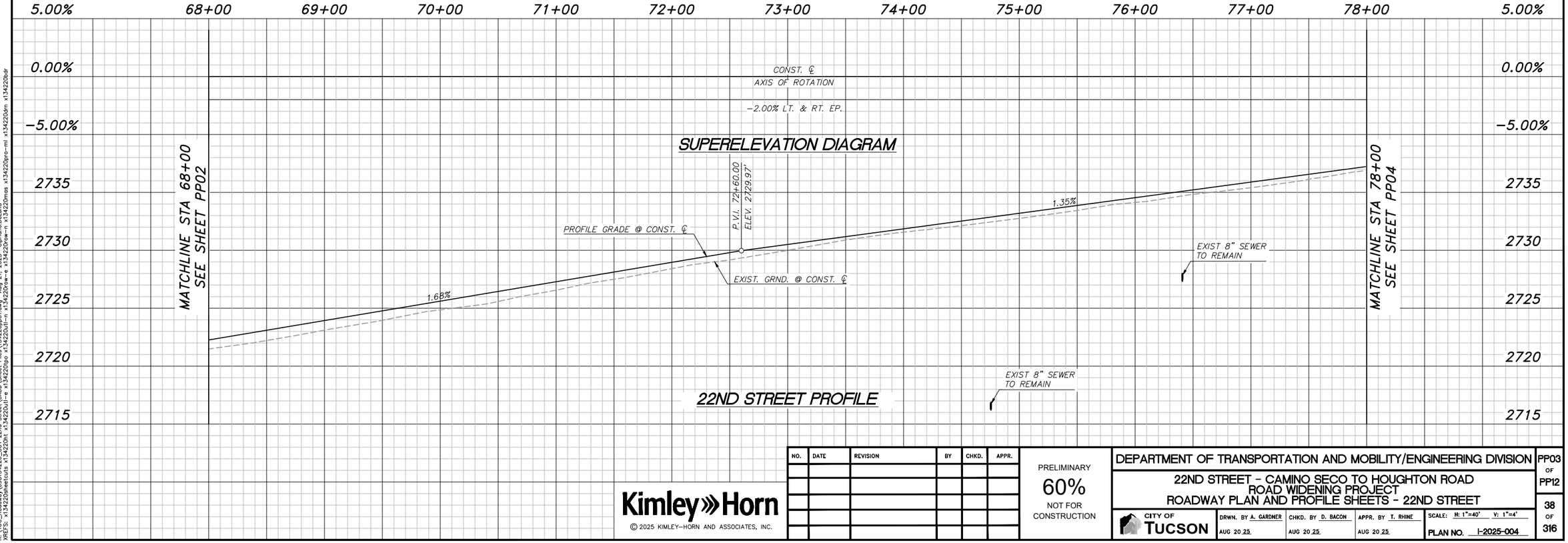
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0 40' 80'
SCALE: 1"=40'

GENERAL NOTES:

[X] SEE GENERAL NOTES SHEET GN03.



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ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

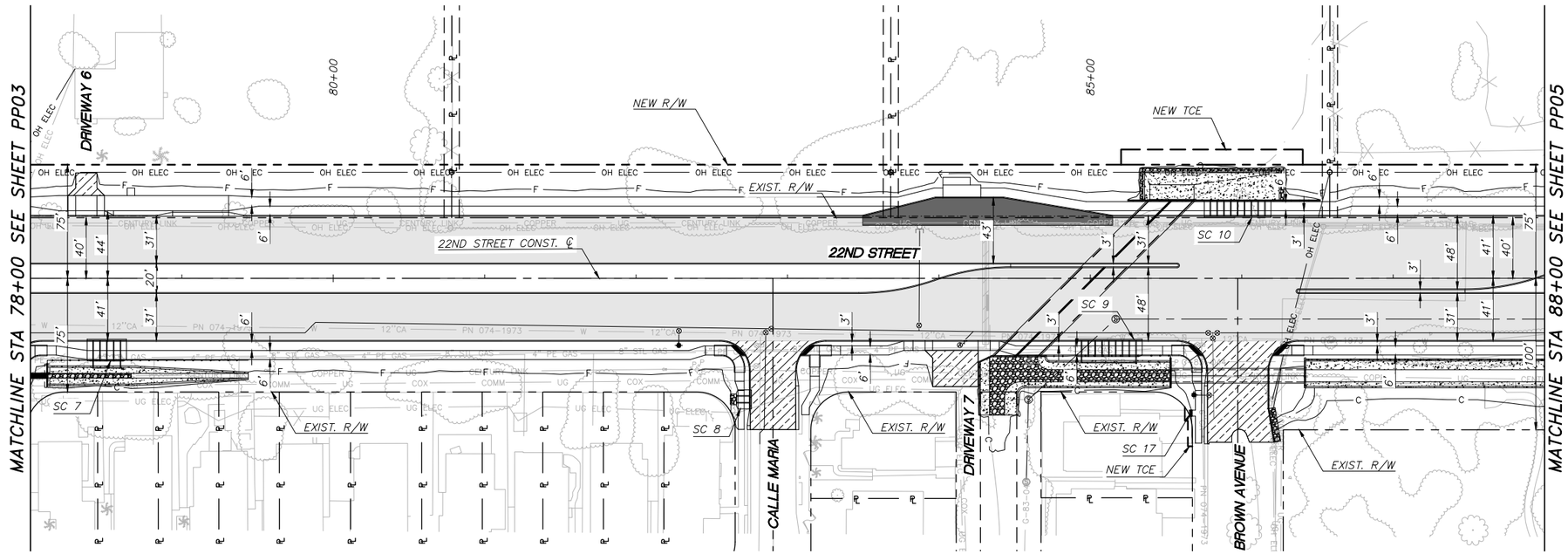
CITY OF TUCSON

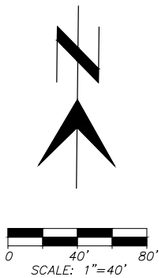
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PP03 OF PP12

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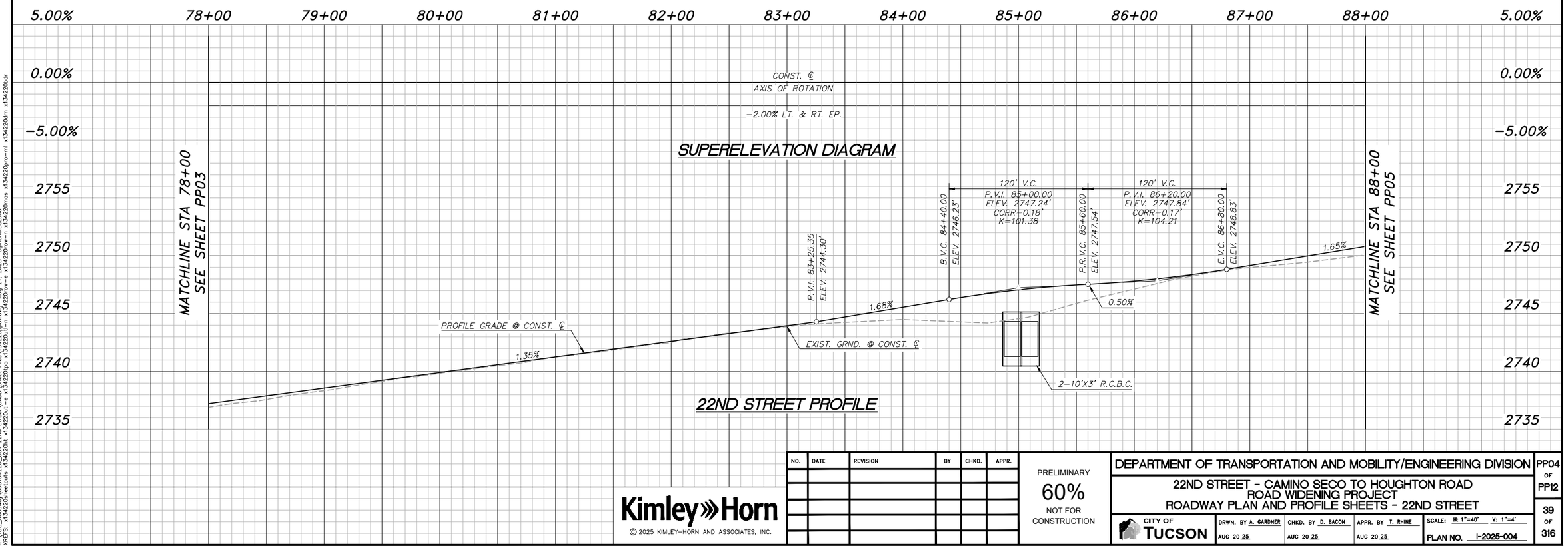
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

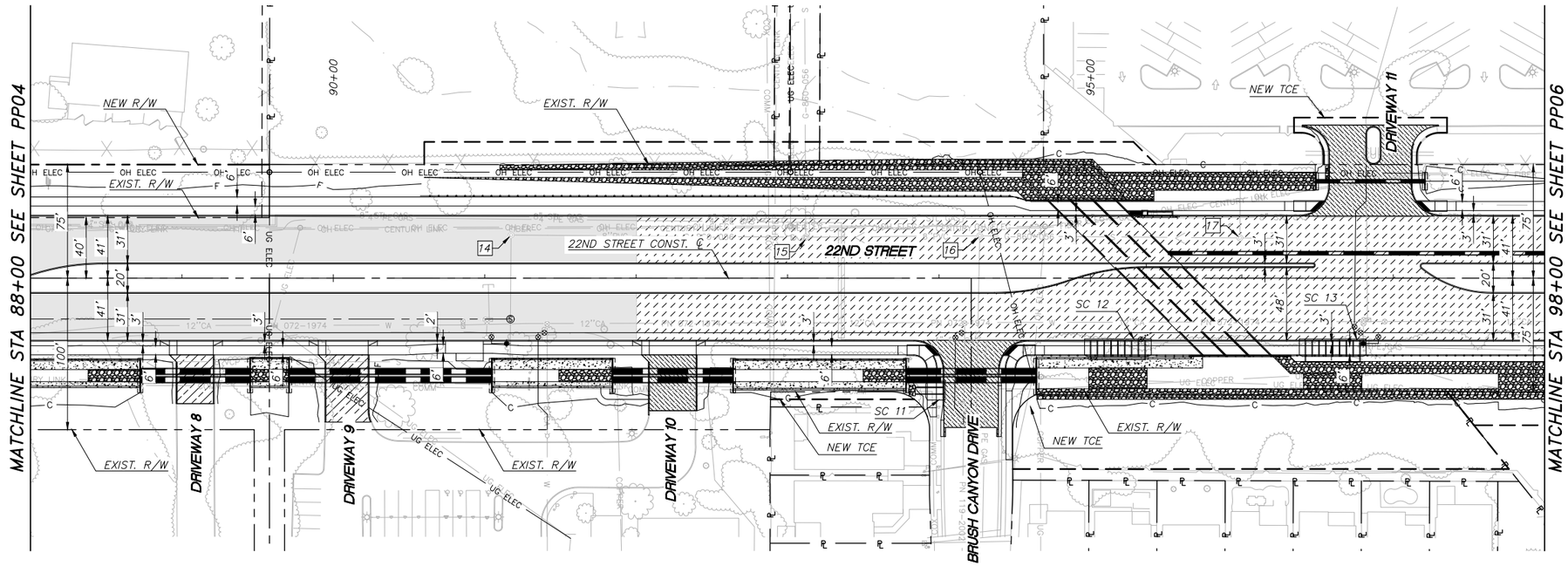
CITY OF TUCSON

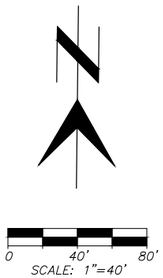
DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=40' V: 1"=4'
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PP04 OF PP12

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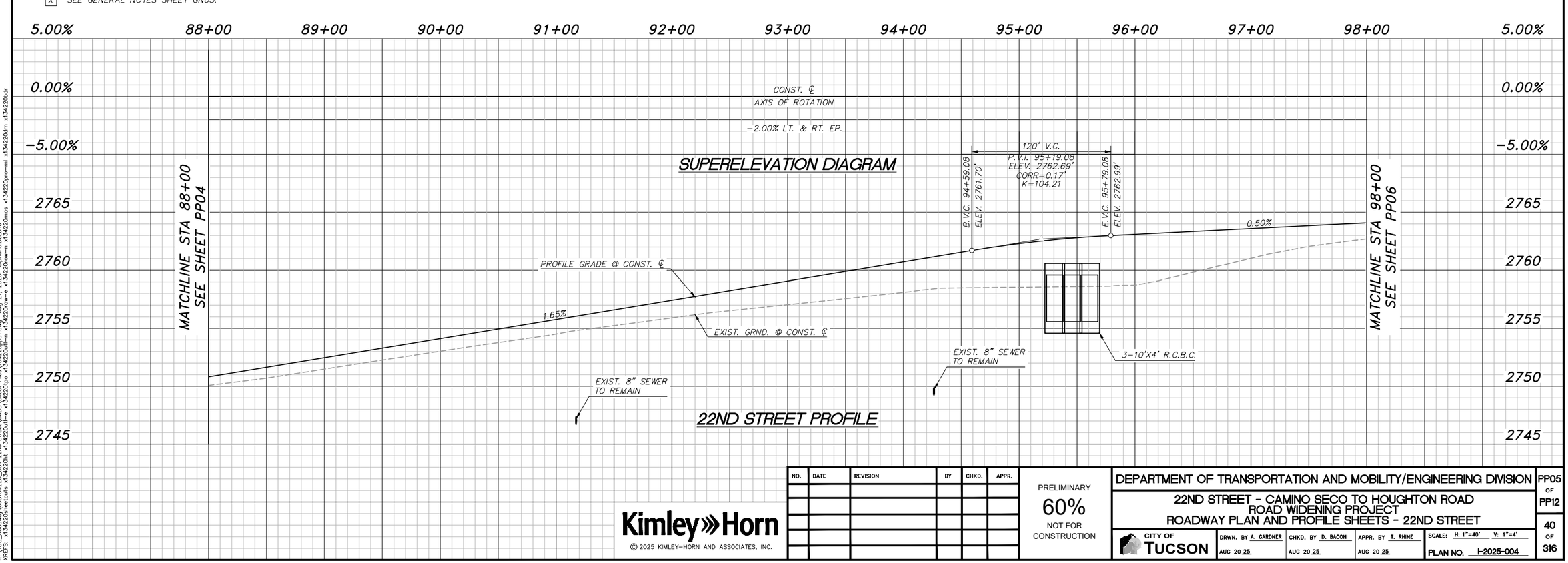
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ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

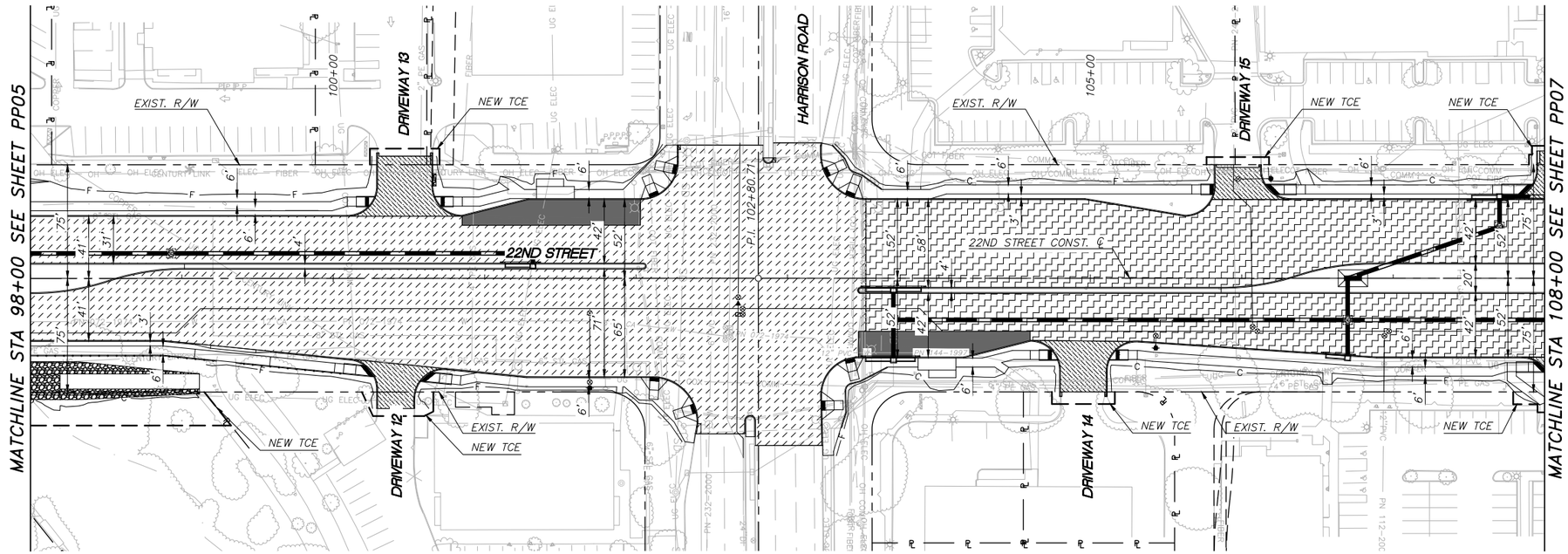
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=40' V: 1"=4'
A. GARDNER AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

PP05 OF PP12

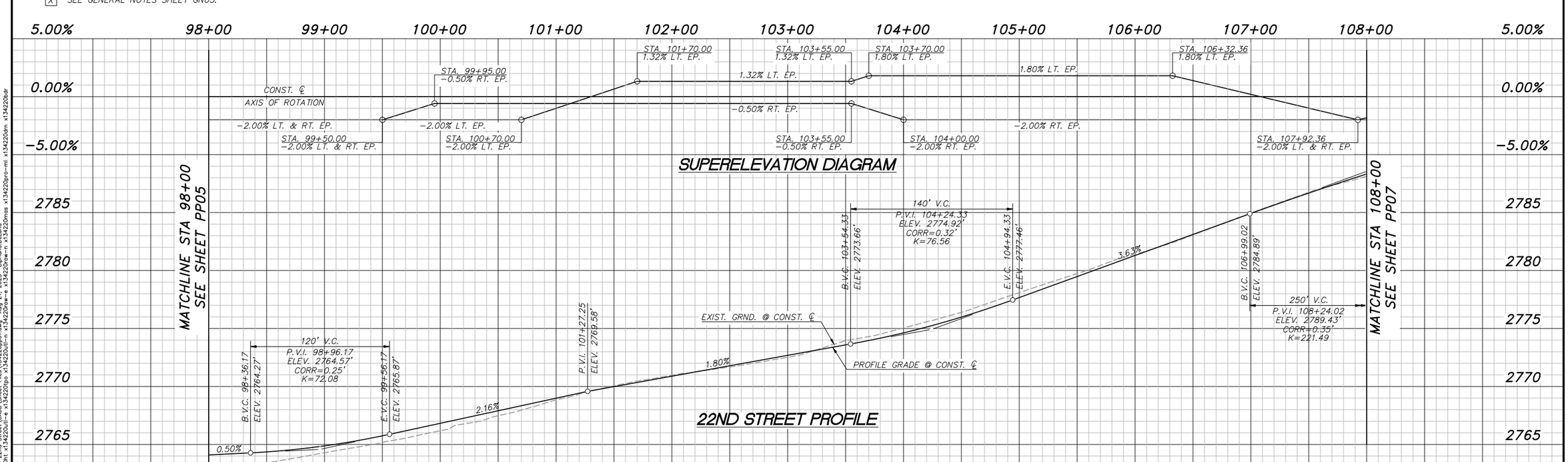
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ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

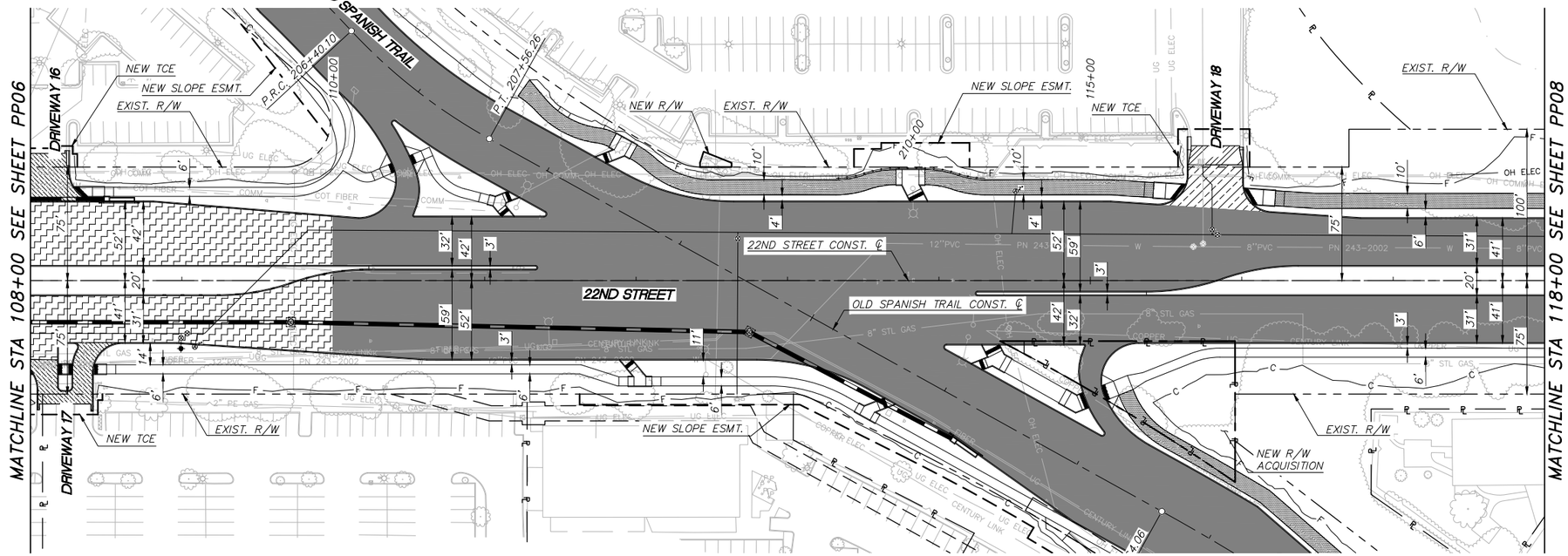
CITY OF TUCSON

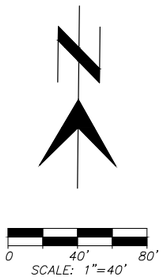
DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=40' V: 1"=4'
A. GARDNER AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

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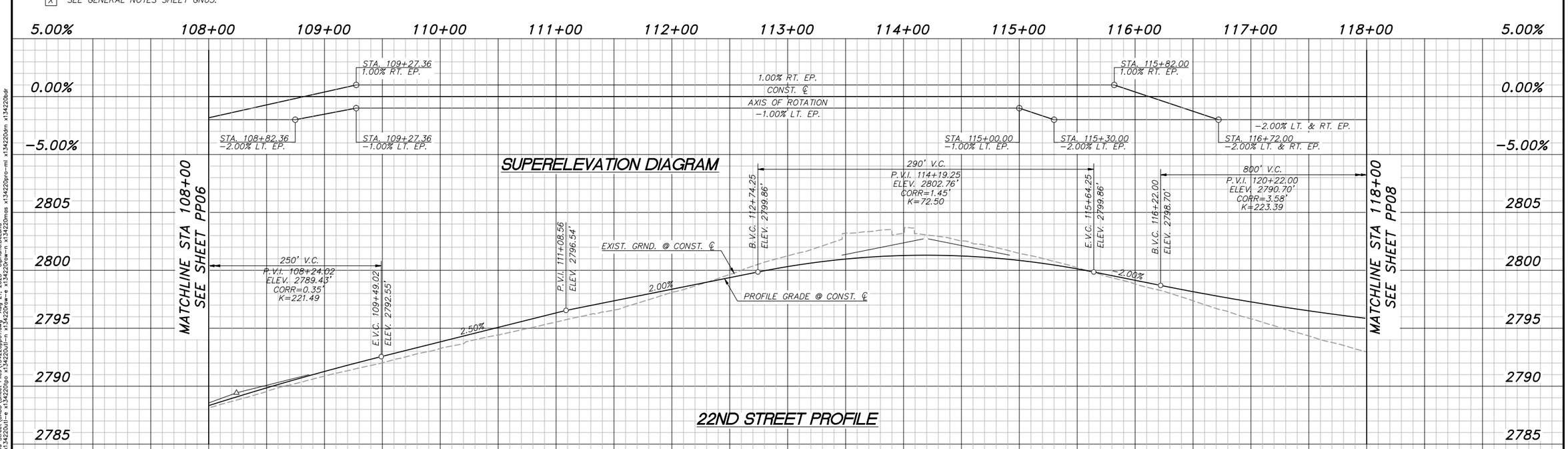
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ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

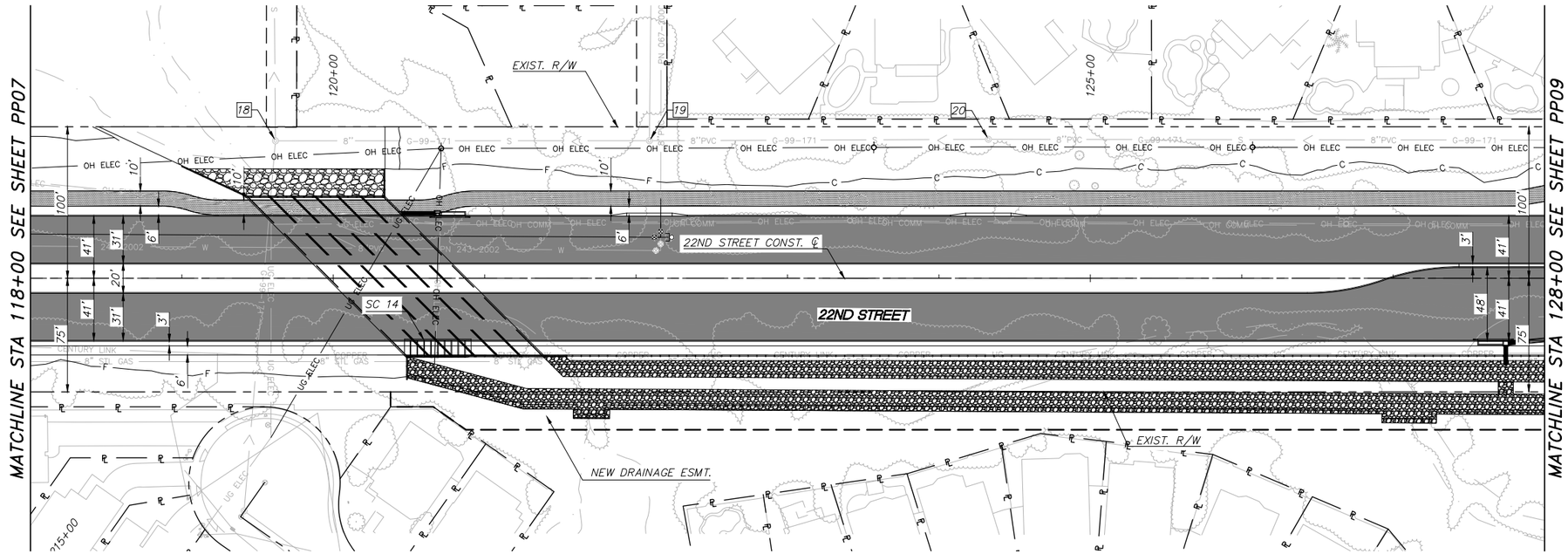
CITY OF TUCSON

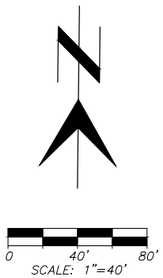
DRWN. BY	CHKD. BY	APPR. BY	SCALE	PLAN NO.
A. GARDNER AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	H: 1"=40' V: 1"=4'	I-2025-004

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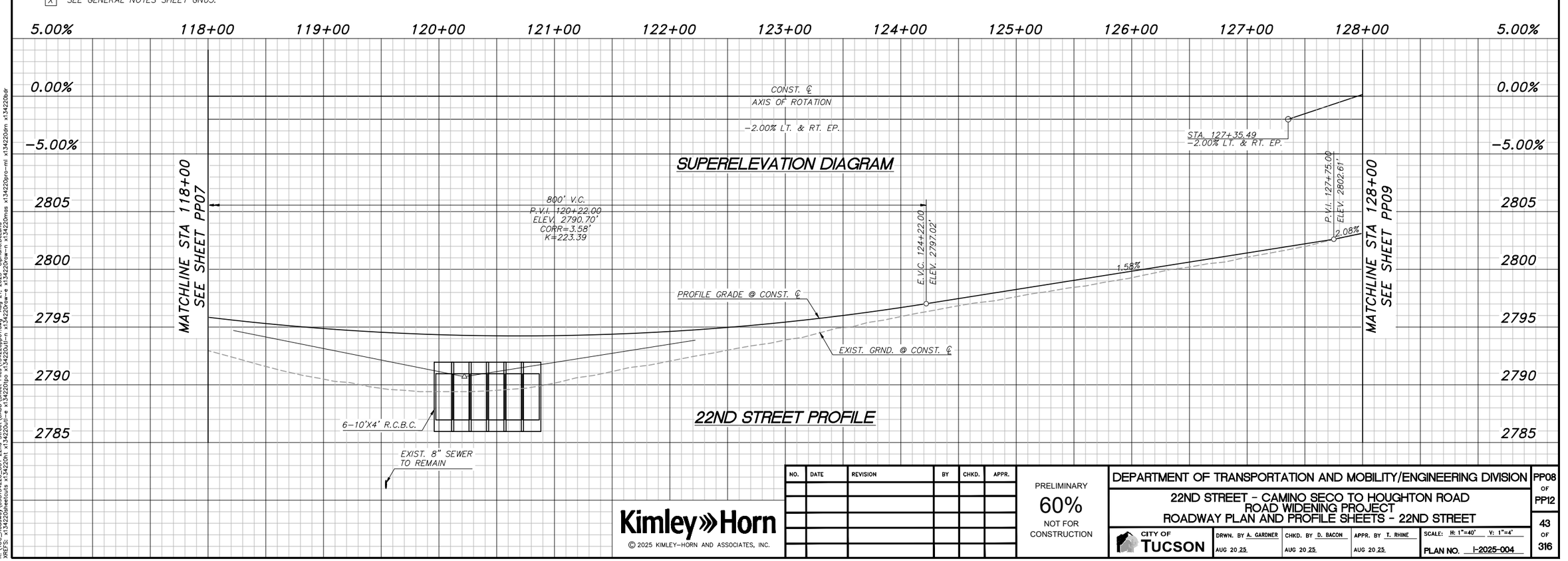
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GENERAL NOTES:

[X] SEE GENERAL NOTES SHEET GN03.



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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

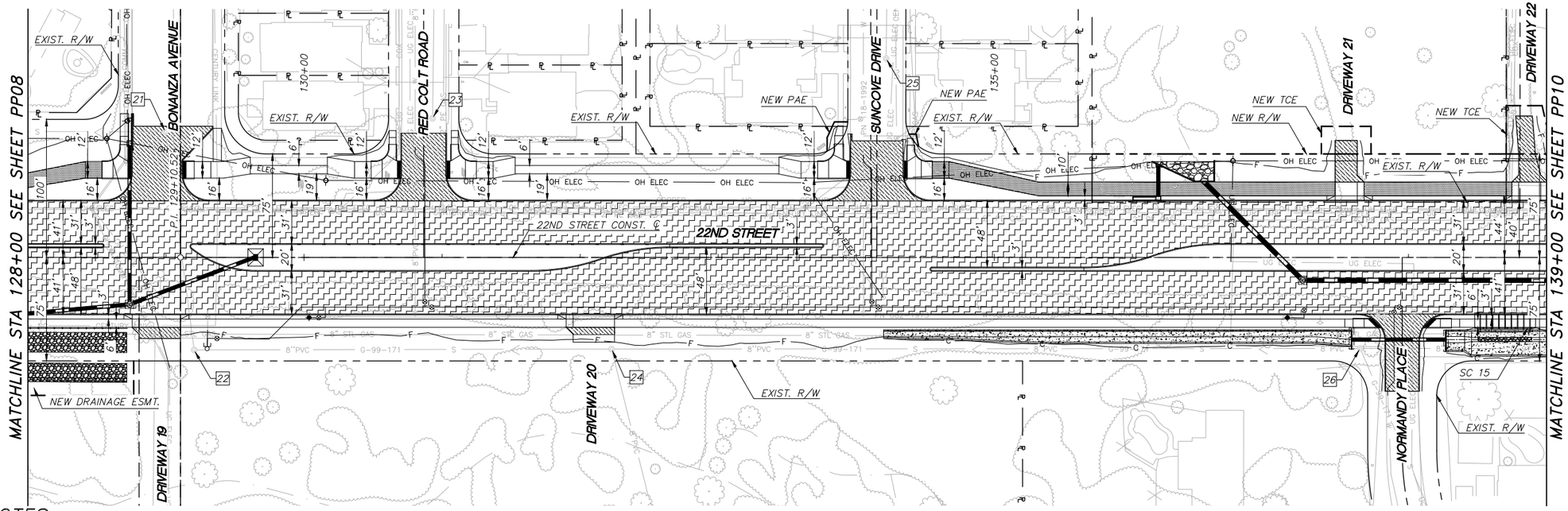
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE	PLAN NO.
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PP08 OF PP12

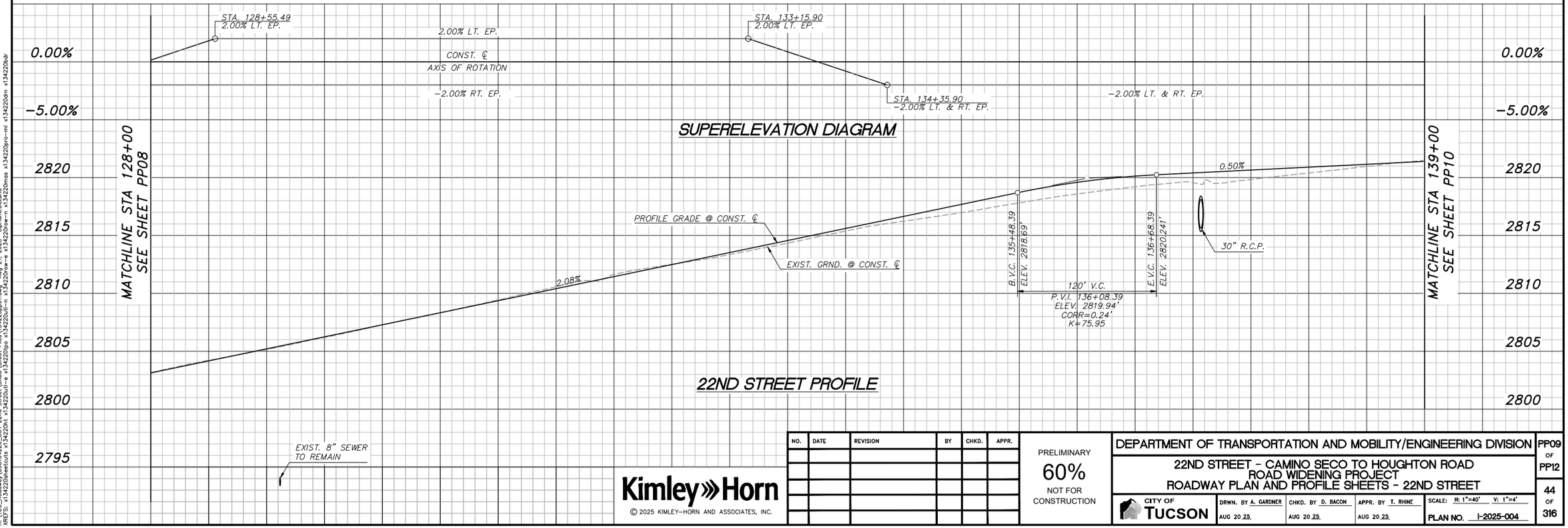
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GENERAL NOTES:

[X] SEE GENERAL NOTES SHEET GN03.



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ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

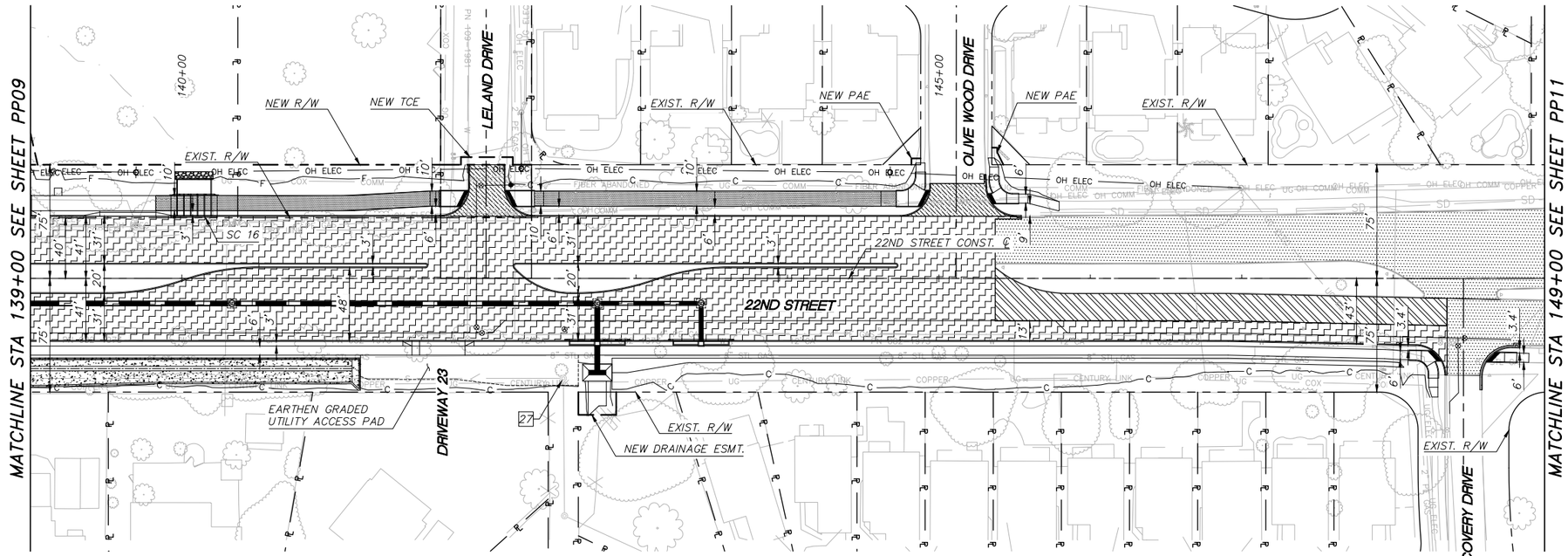
CITY OF TUCSON

DRWN. BY A. GARDNER AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: 1"=4'
PLAN NO. I-2025-004

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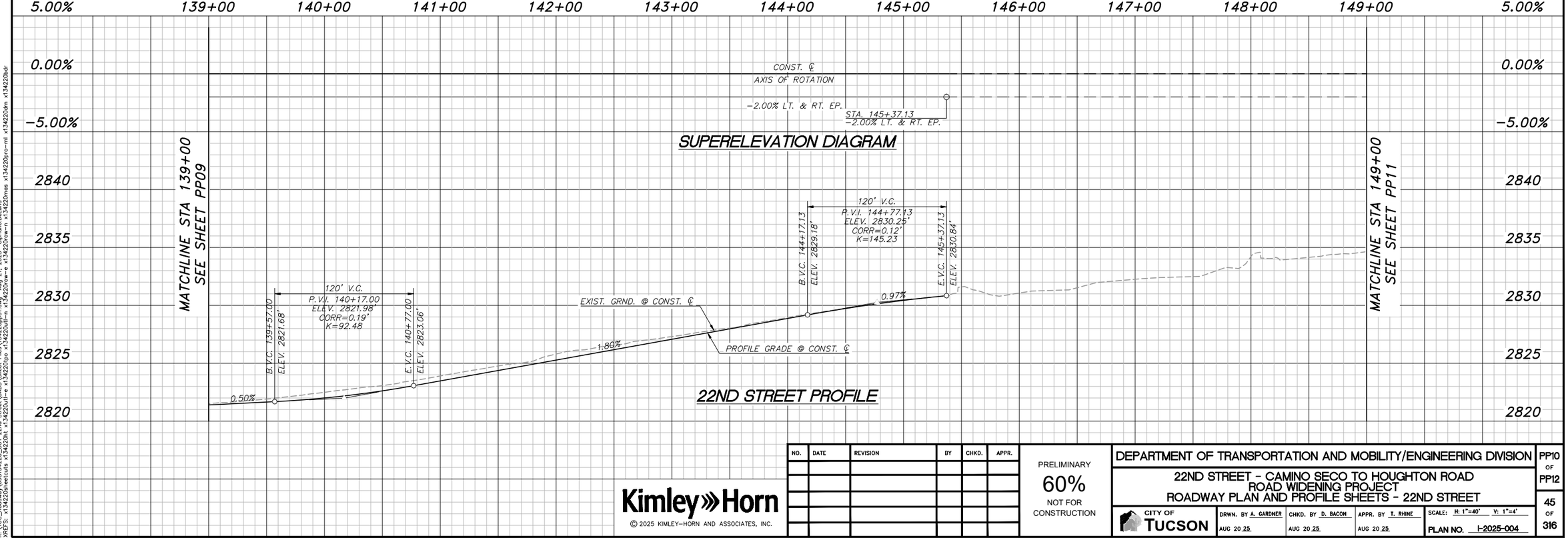
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0 40' 80'
SCALE: 1"=40'

GENERAL NOTES:

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ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

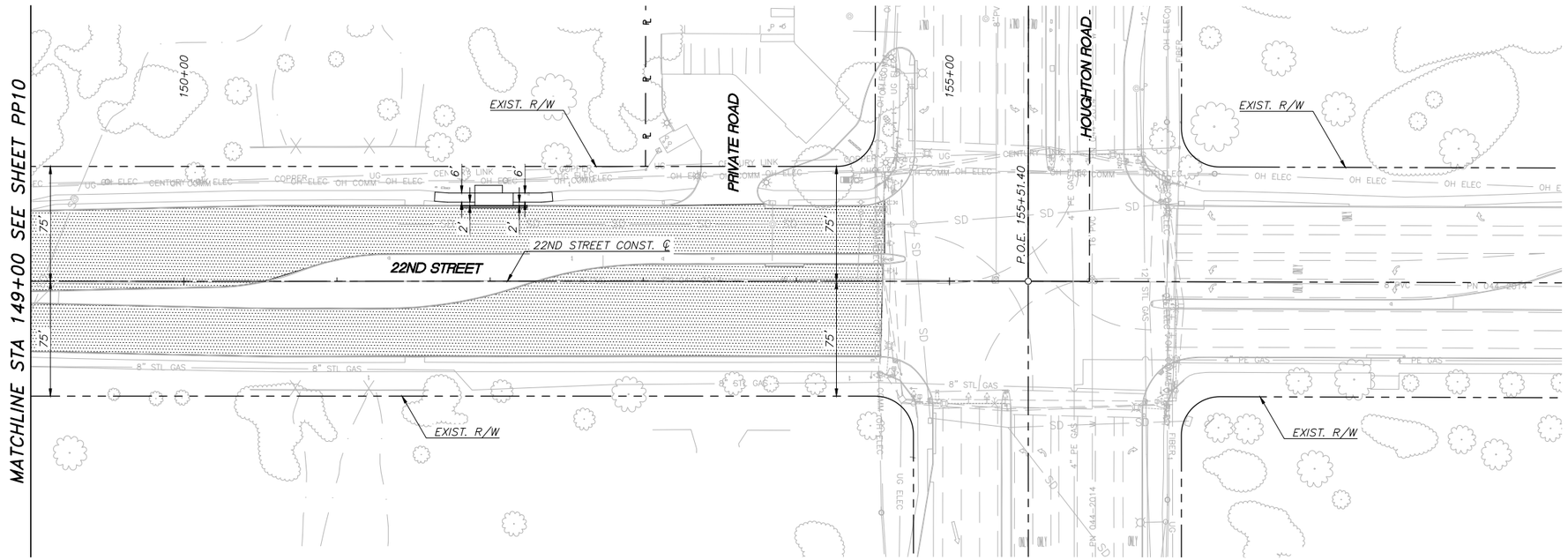
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=40' V: 1"=4'
A. GARDNER AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

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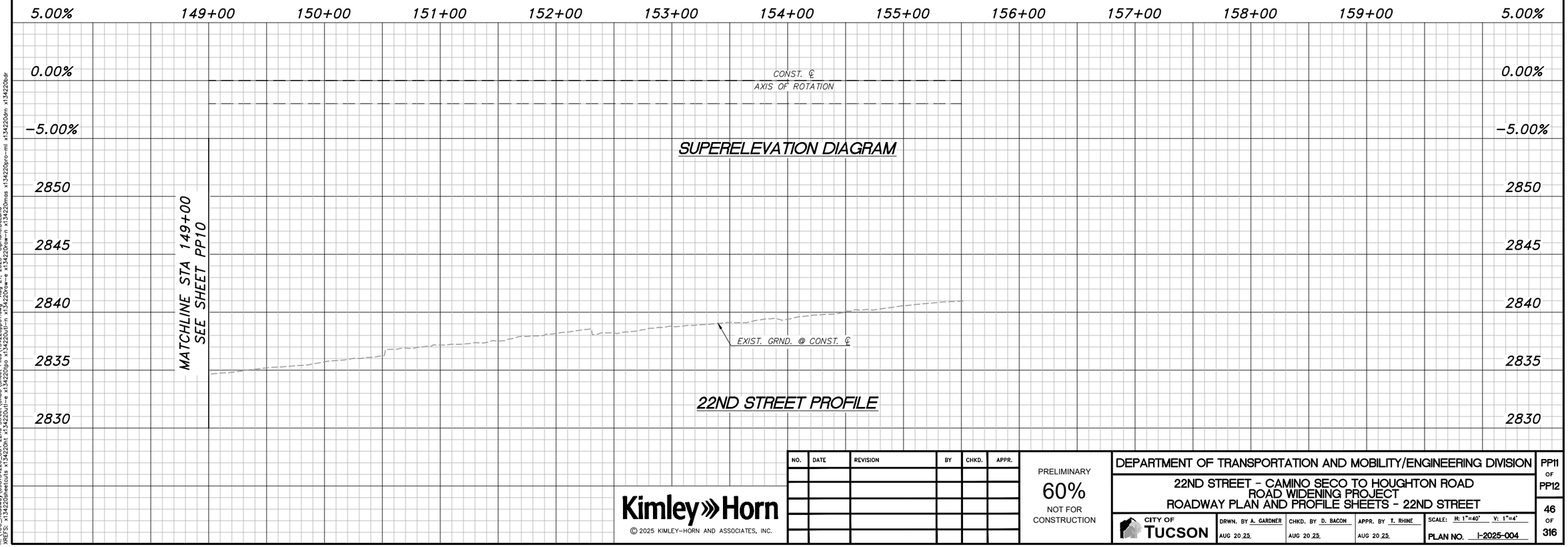
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE SHEETS - 22ND STREET

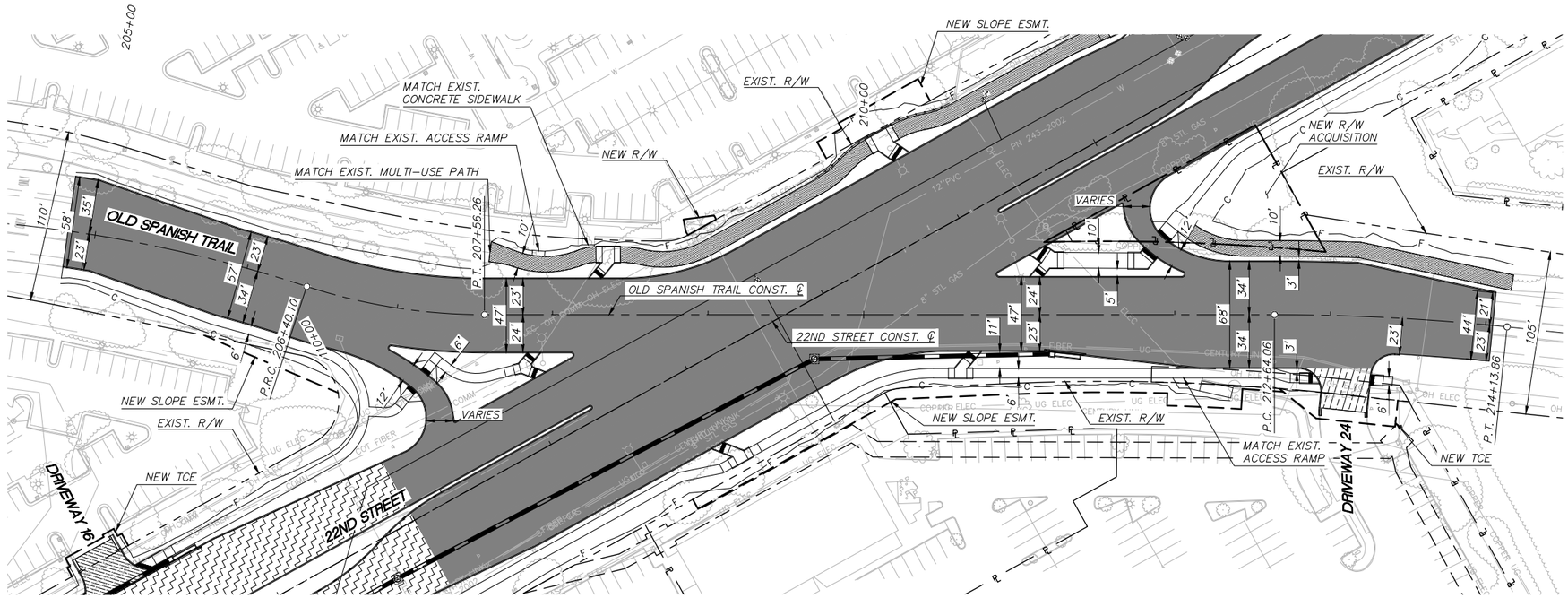
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=40' V: 1"=4'
A. GARDNER AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

PP11 OF PP12

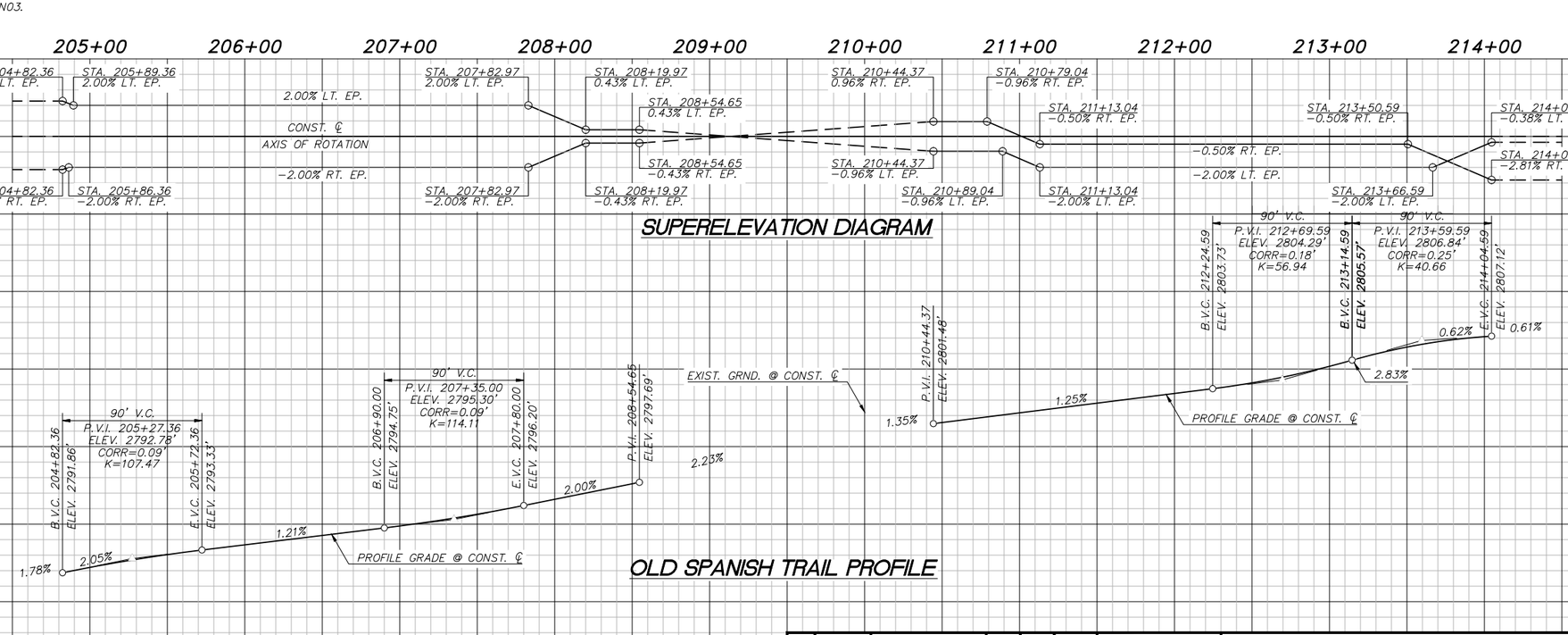
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GENERAL NOTES:

[X] SEE GENERAL NOTES SHEET GN03.



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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ROADWAY PLAN AND PROFILE - OLD SPANISH TRAIL

CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY
A. GARDNER AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25

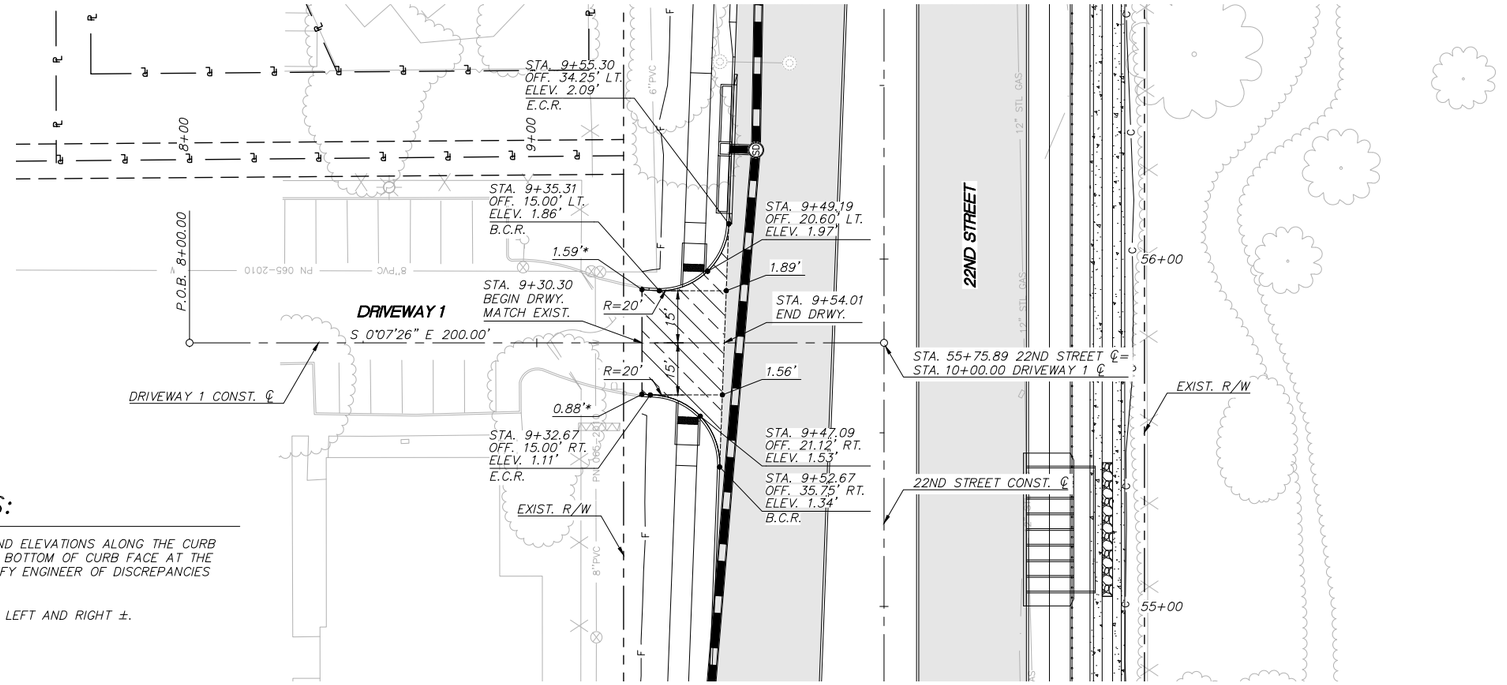
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PLAN NO. I-2025-004

PP12 OF PP12

47 OF 316

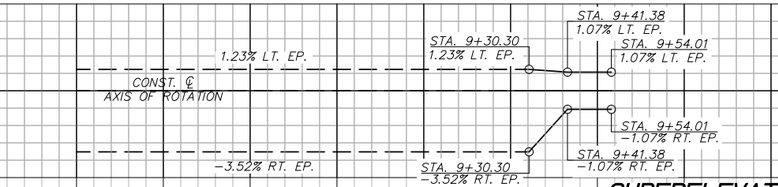
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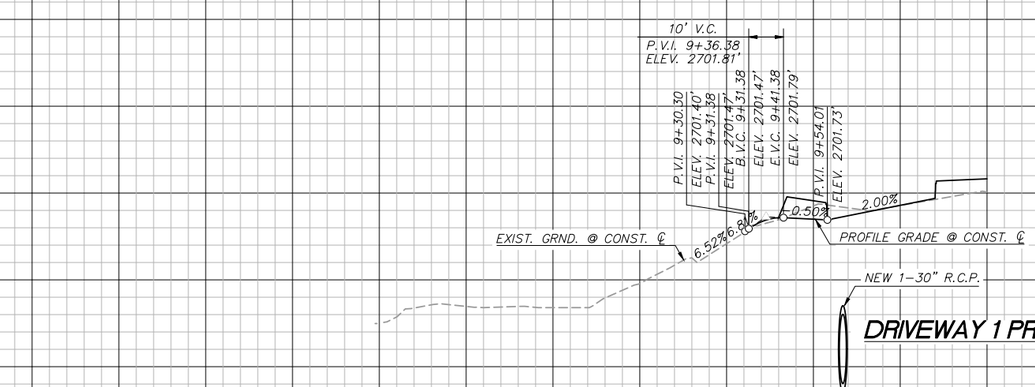
GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



SUPERELEVATION DIAGRAM



DRIVEWAY 1 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

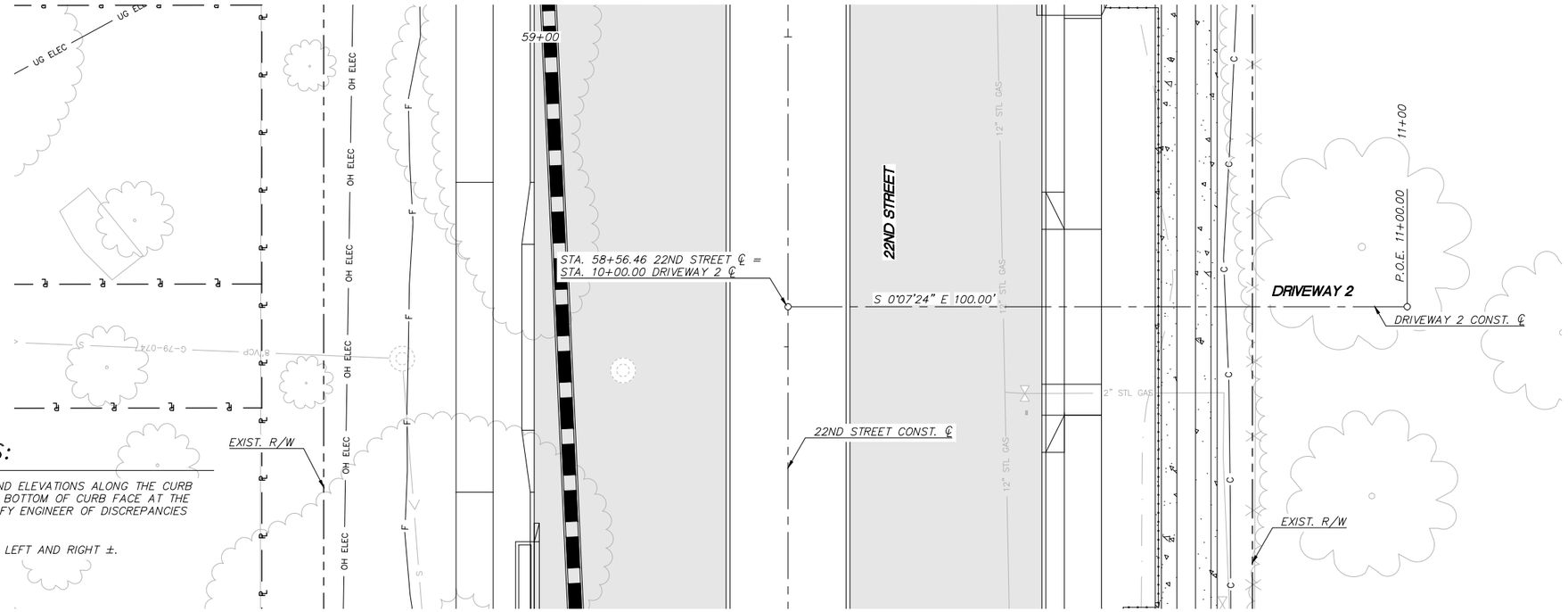
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=20' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

SR01 OF SR37

48 OF 316

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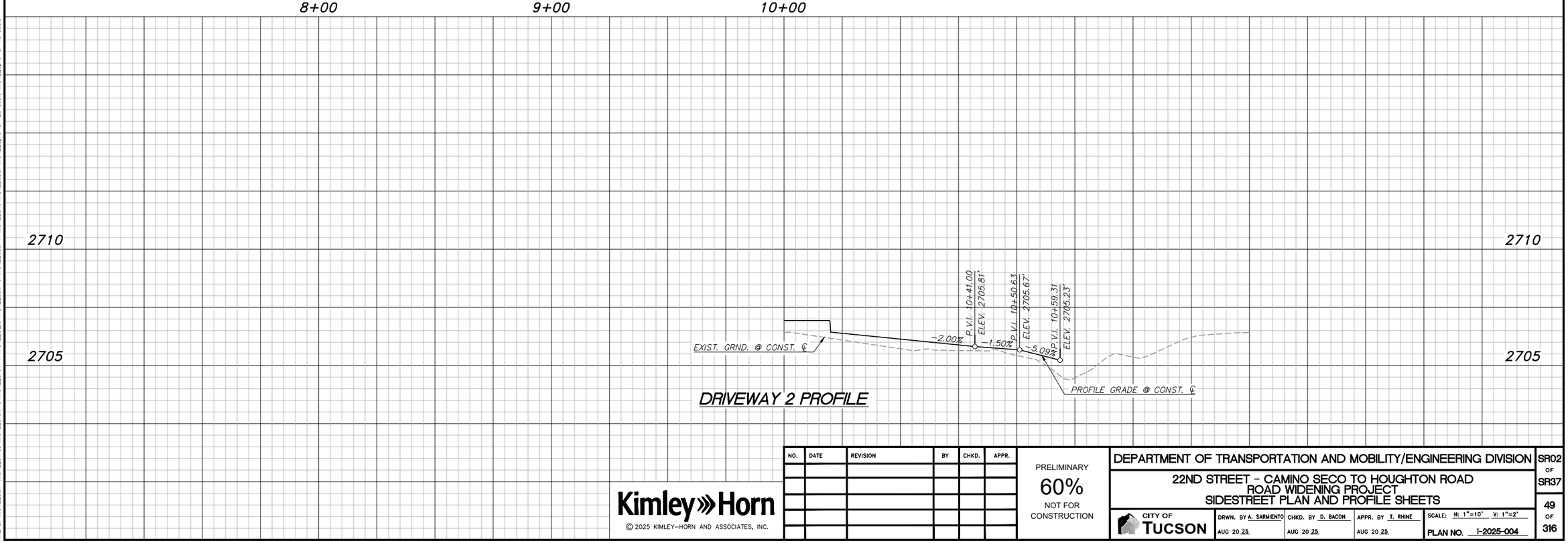


0 10' 20'
SCALE: 1"=10'

GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



DRIVEWAY 2 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

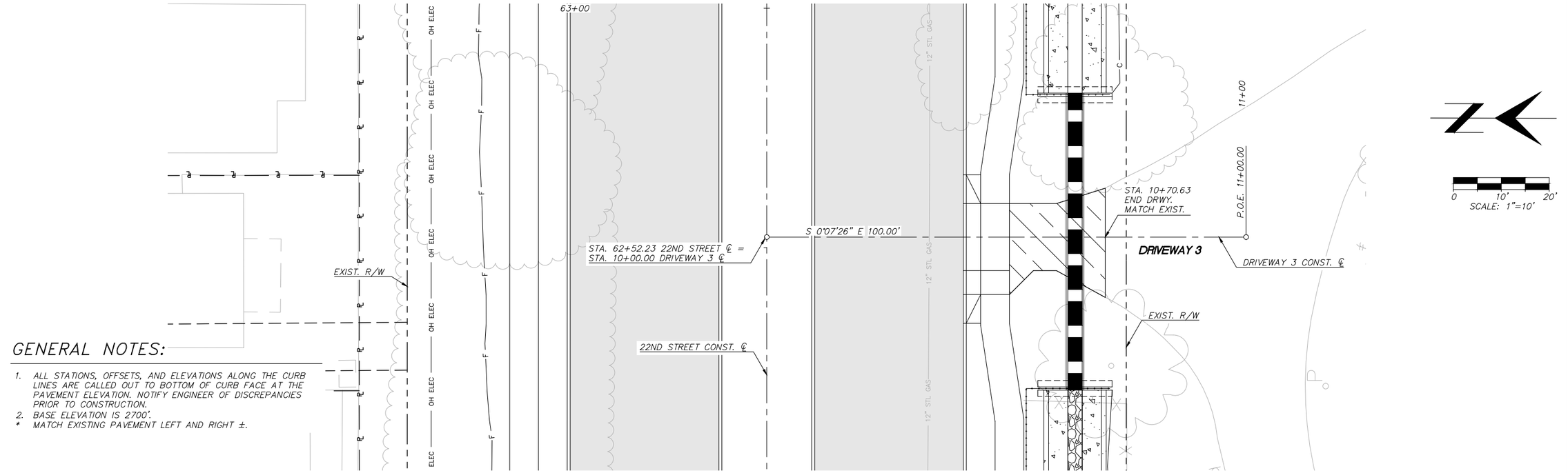
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

SR02 OF SR37

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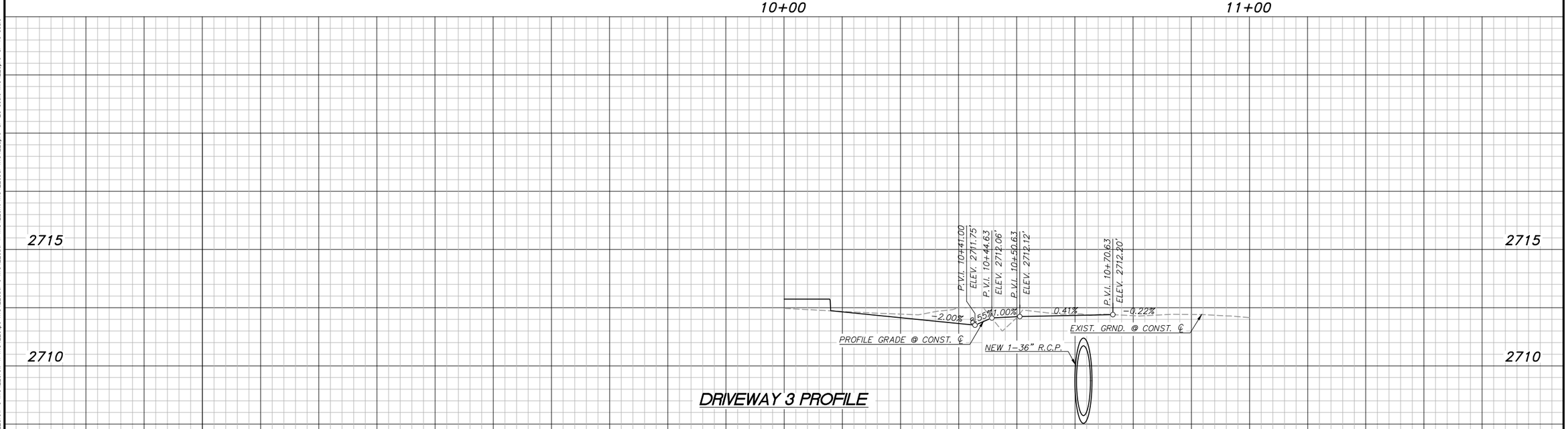
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GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



DRIVEWAY 3 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

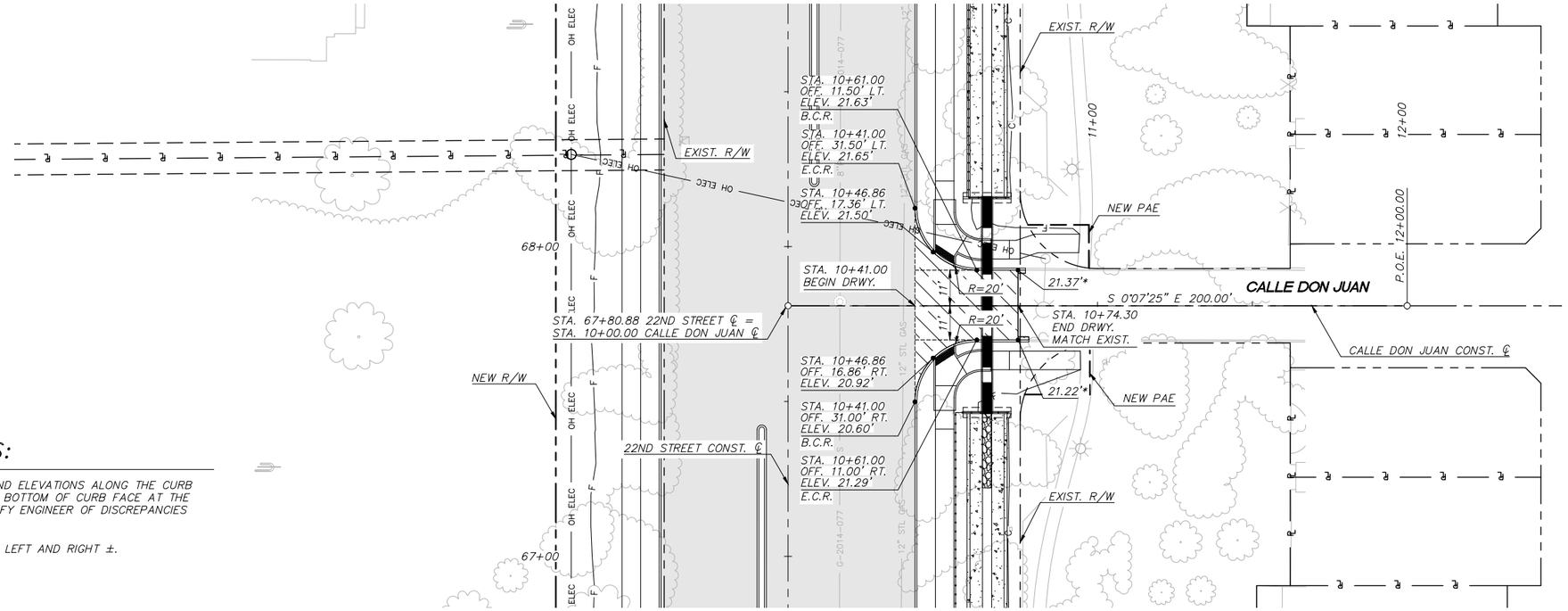
SR03 OF SR37

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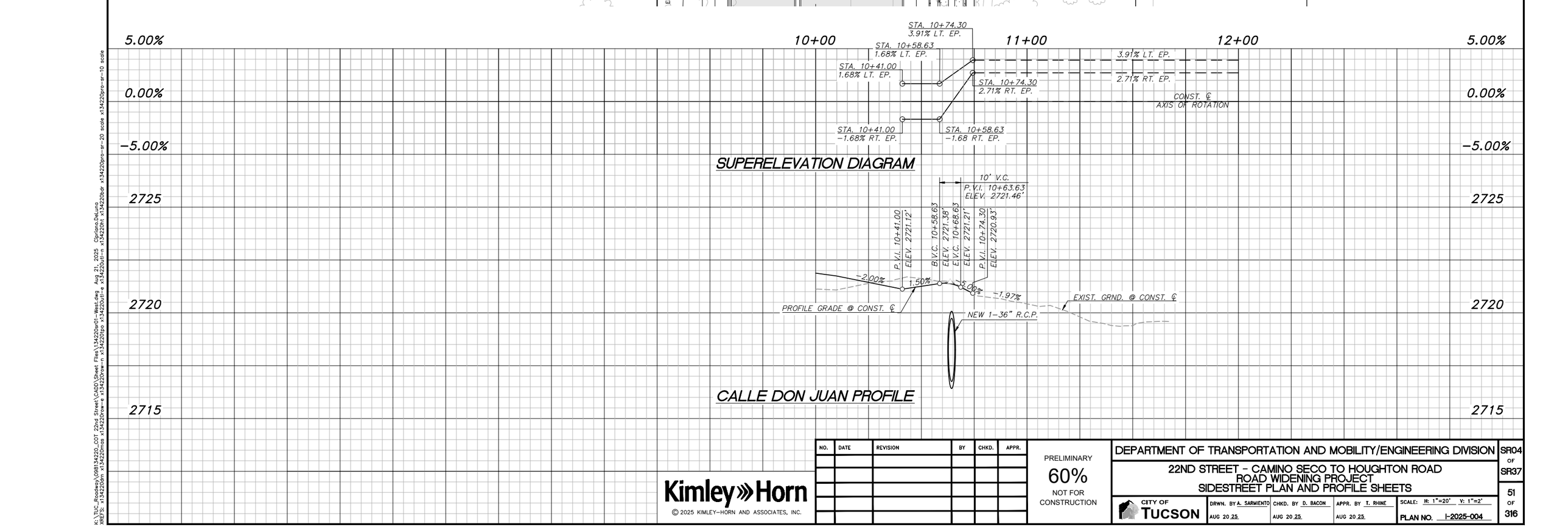
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GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

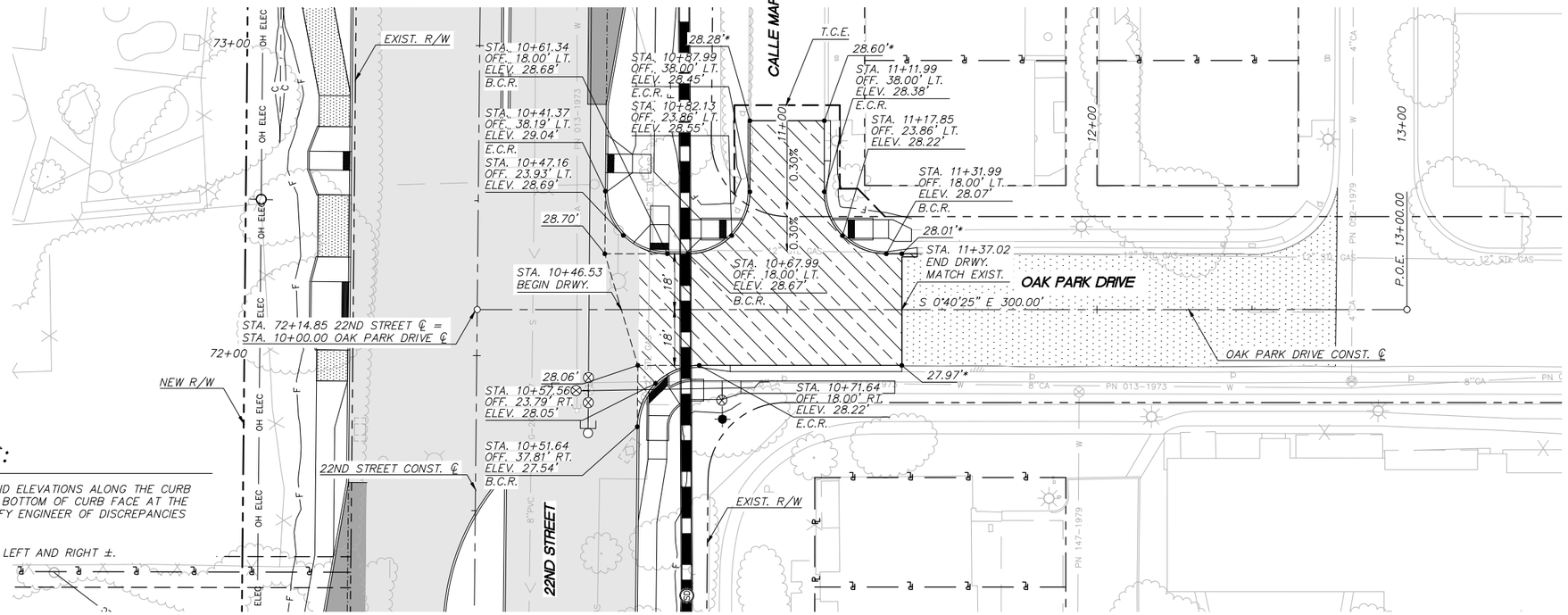
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=20' V: 1"=2'
A. SARMIENTO AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

SR04 OF SR37

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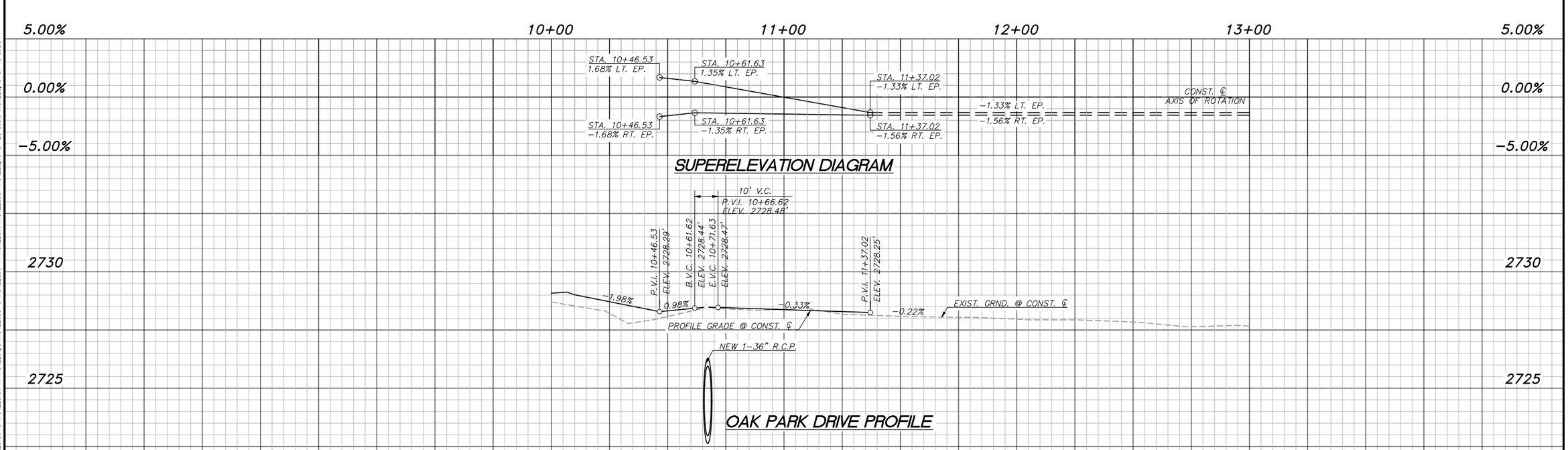


GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.

0 20' 40'
SCALE: 1"=20'



NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

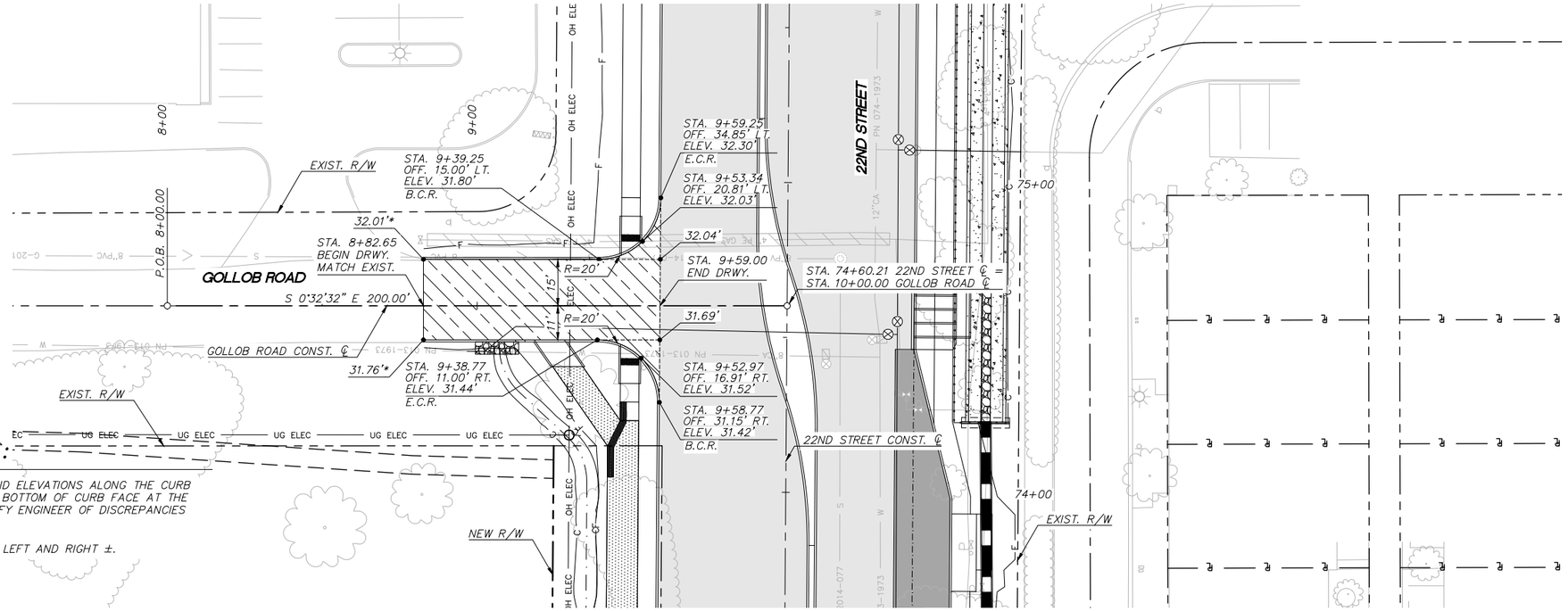
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY
A. SARMIENTO AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25

SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

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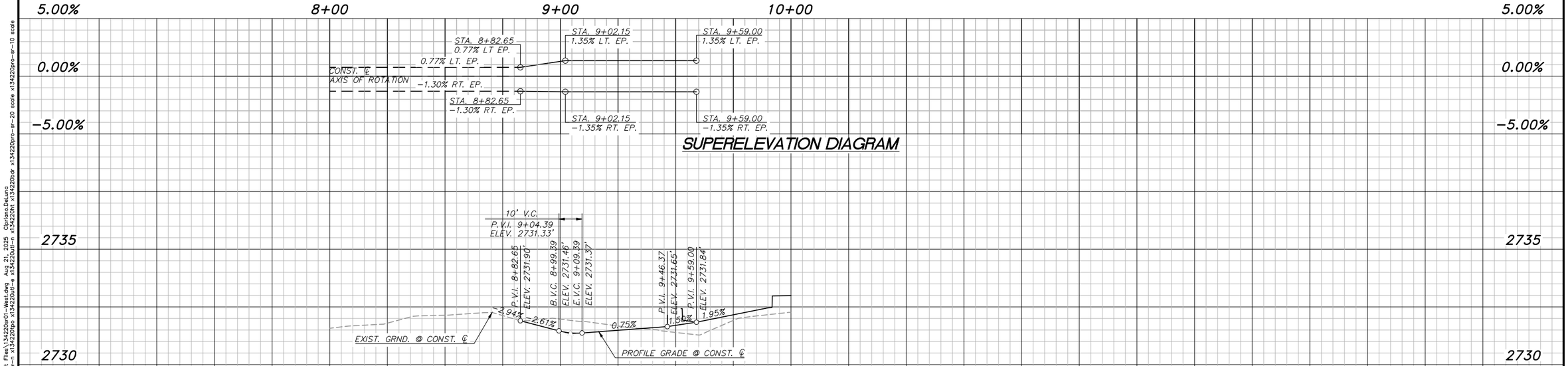
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GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



NO.	DATE	REVISION	BY	CHKD.	APPR.

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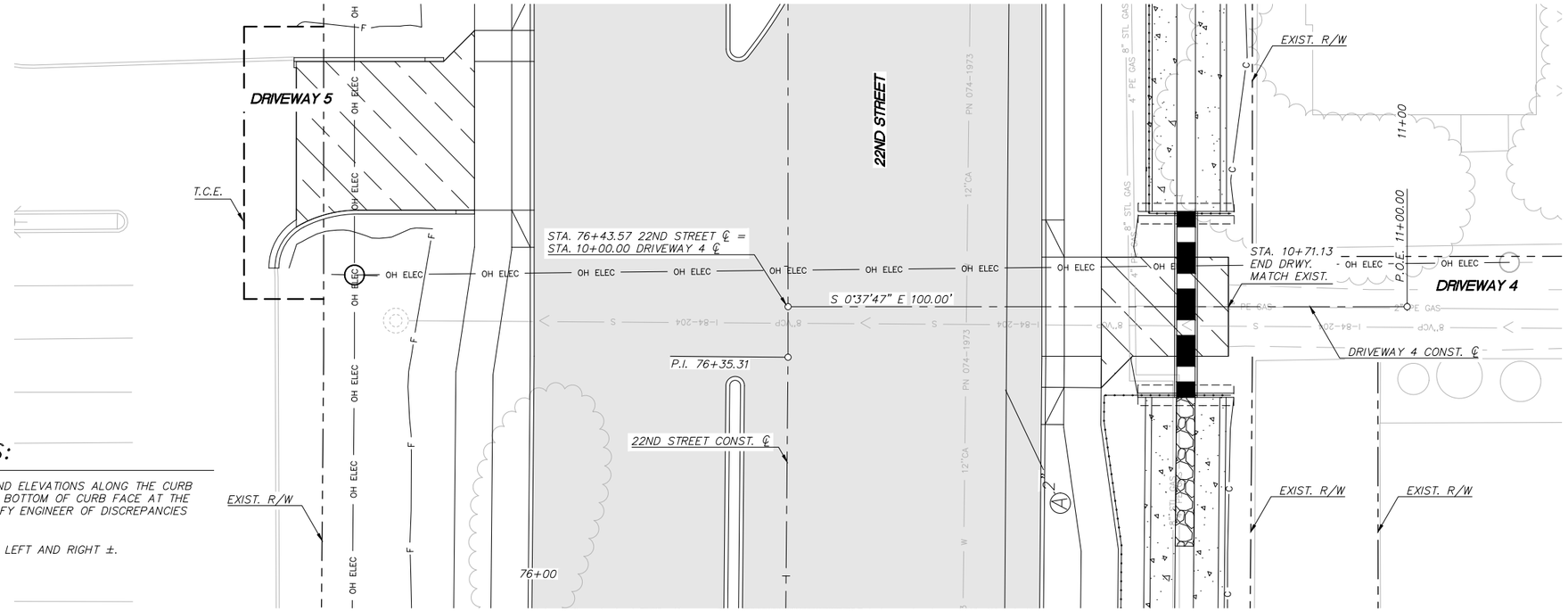
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

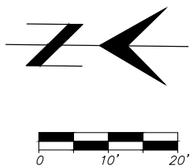
CITY OF TUCSON

DRWN. BY A. SARMIENTO AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

SR06 OF SR37
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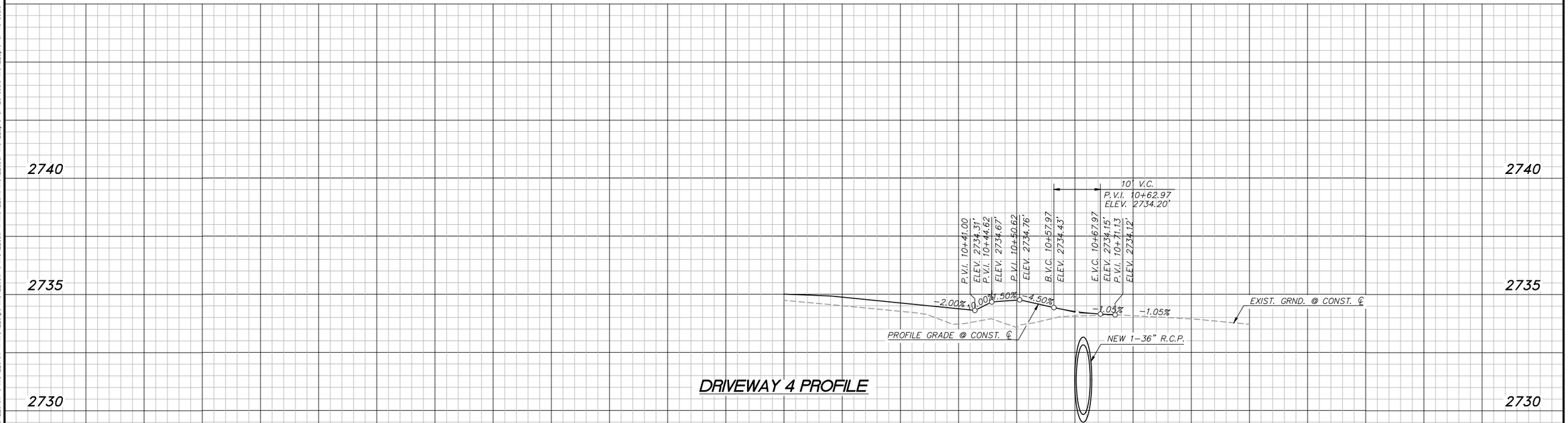




GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



DRIVEWAY 4 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

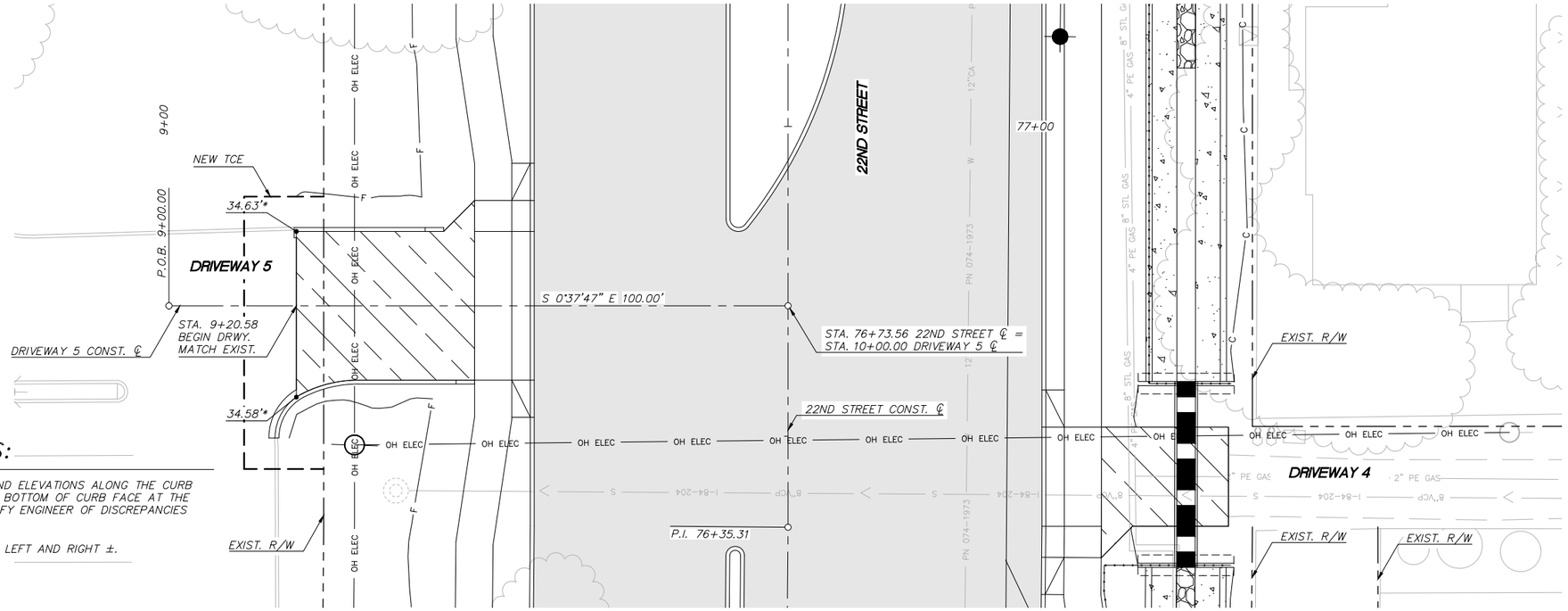
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

SR07 OF SR37

54 OF 316

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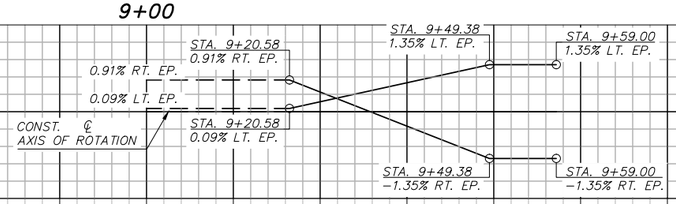


GENERAL NOTES:

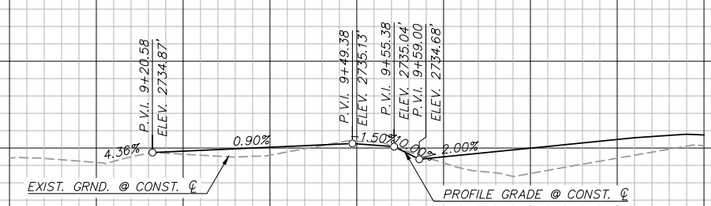
1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.

0 10' 20'
SCALE: 1"=10'



SUPERELEVATION DIAGRAM



DRIVEWAY 5 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

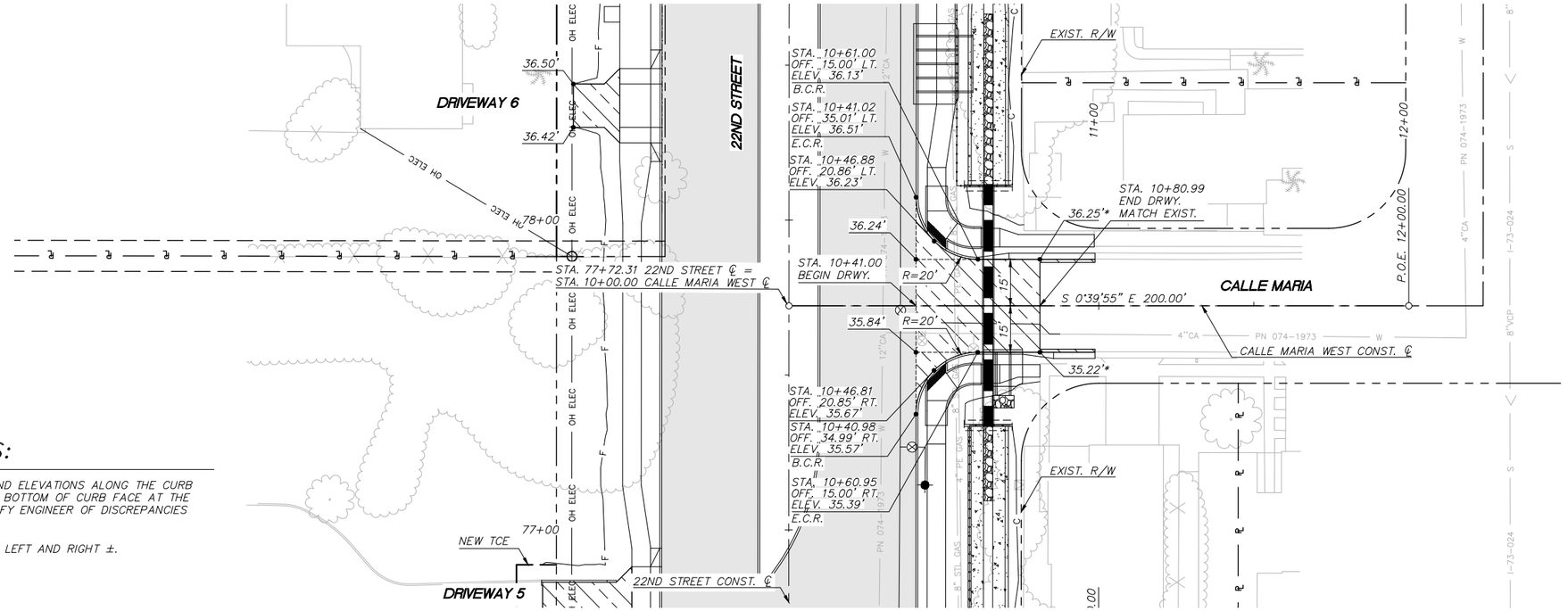
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

SR08 OF SR37

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GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE
AUG 20 25	AUG 20 25	AUG 20 25

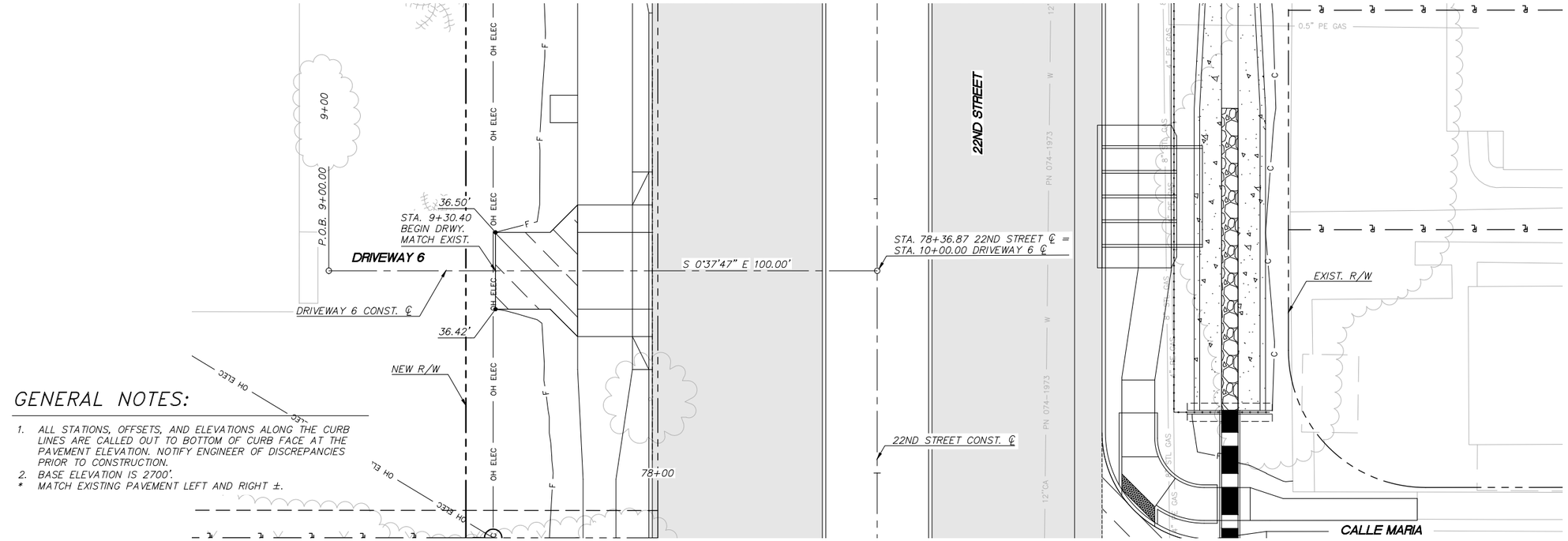
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PLAN NO. I-2025-004

SR09 OF SR37

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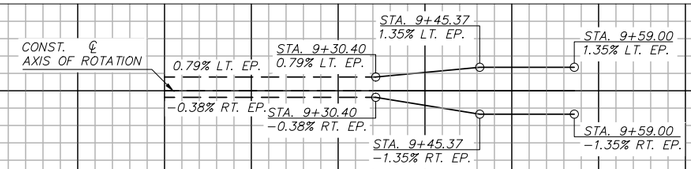
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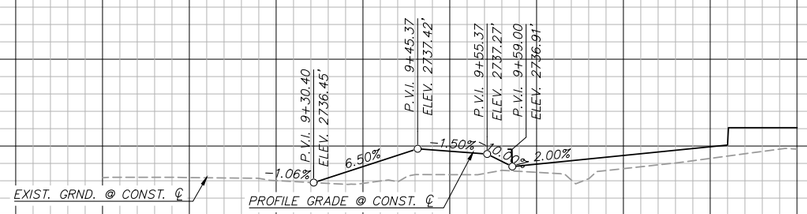
GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



SUPERELEVATION DIAGRAM



DRIVEWAY 6 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

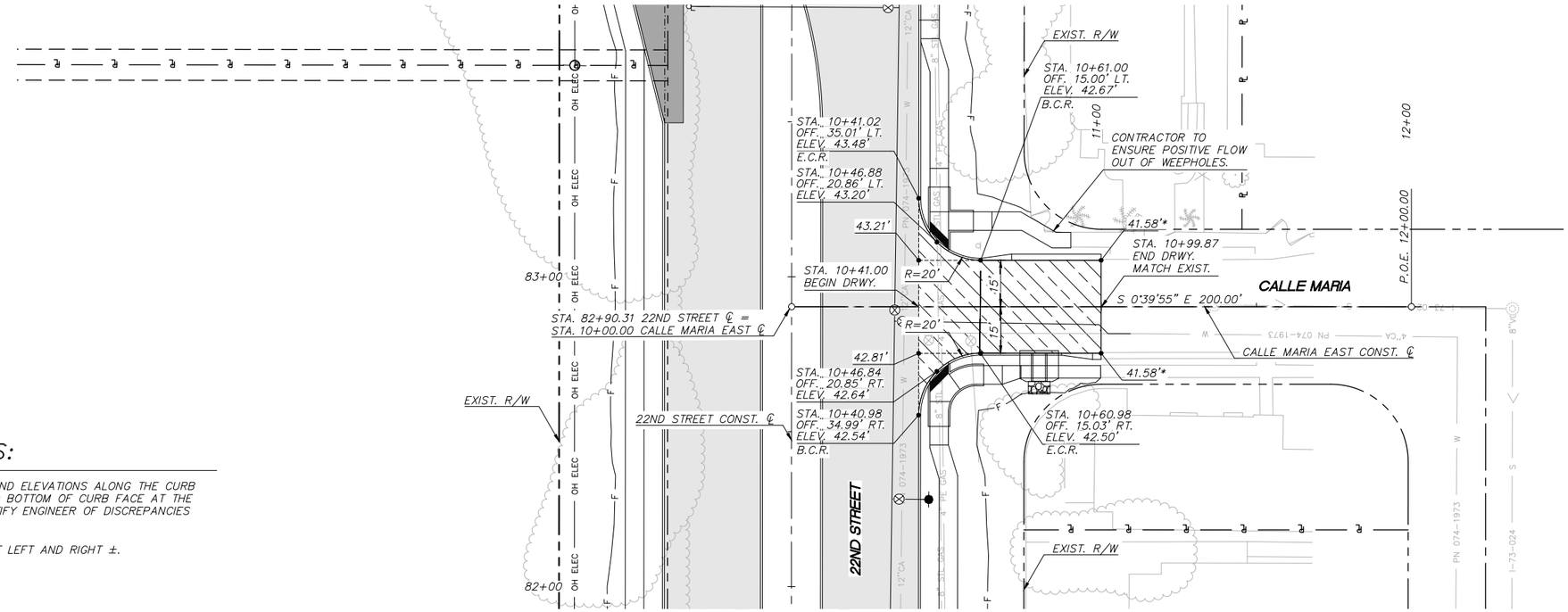
CITY OF TUCSON

DRWN. BY A. SARMIENTO AUG 20 25 | CHKD. BY D. BACON AUG 20 25 | APPR. BY T. RHINE AUG 20 25 | SCALE: H: 1"=10' V: 1"=2' | PLAN NO. I-2025-004

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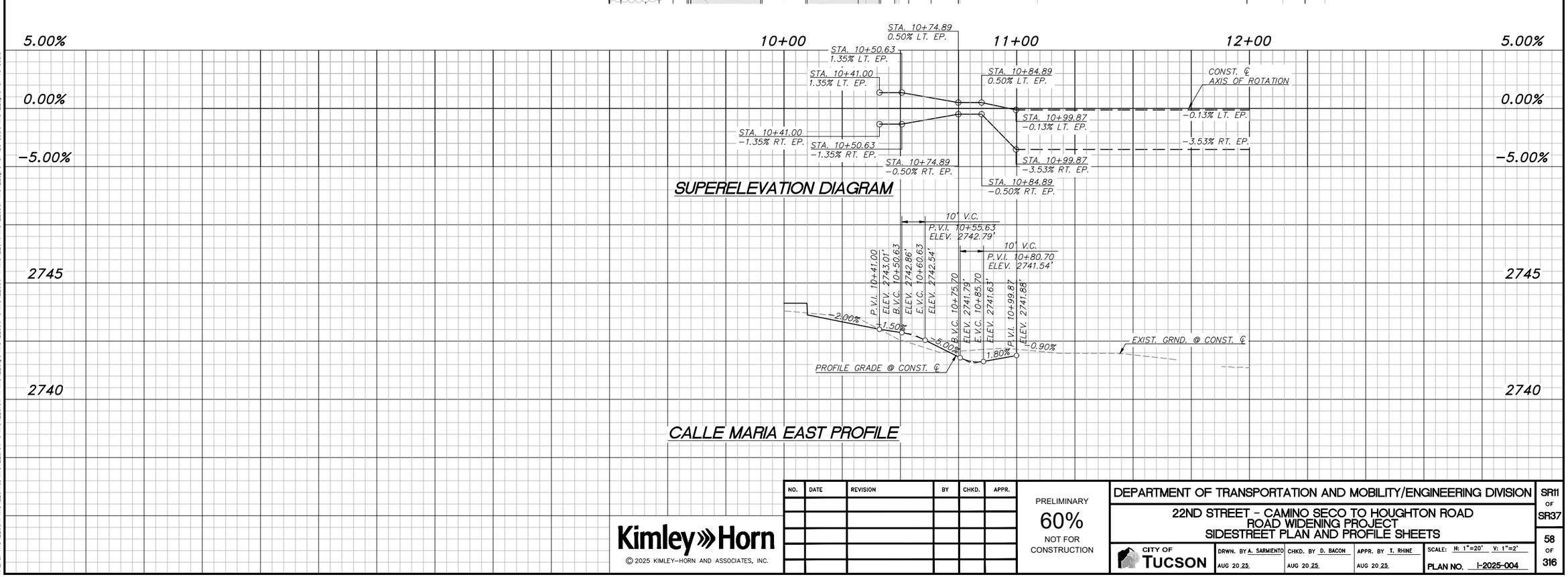
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GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



CALLE MARIA EAST PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE
AUG 20 25	AUG 20 25	AUG 20 25

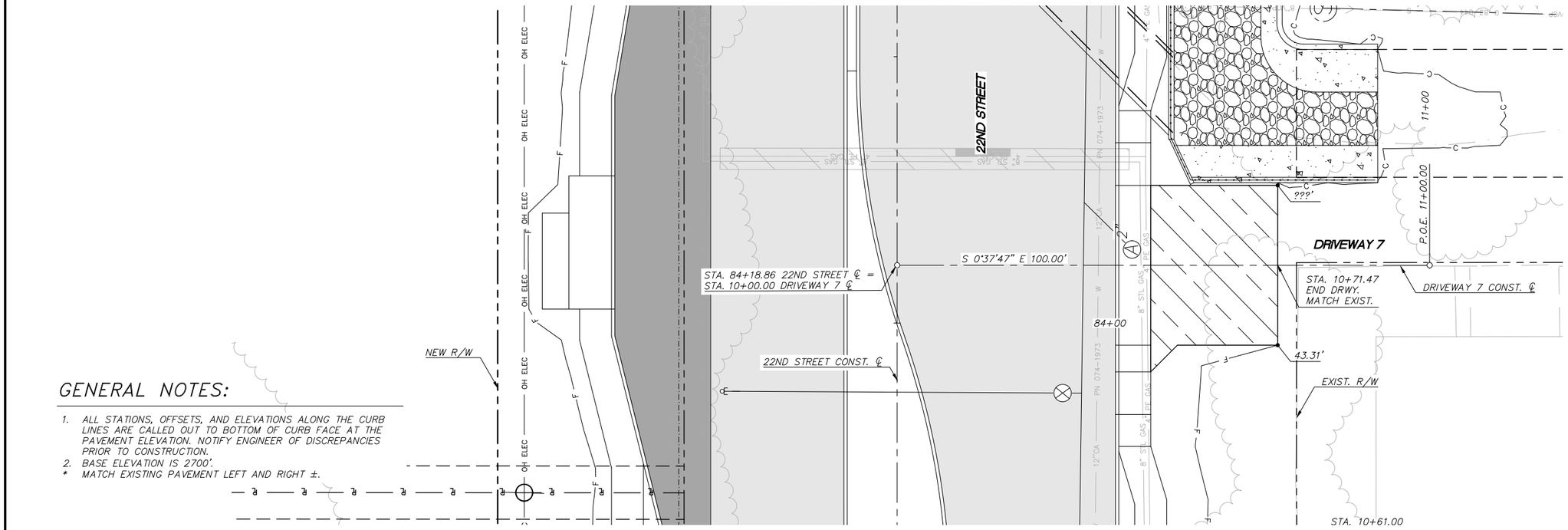
SCALE: H: 1"=20' V: 1"=2'

PLAN NO. I-2025-004

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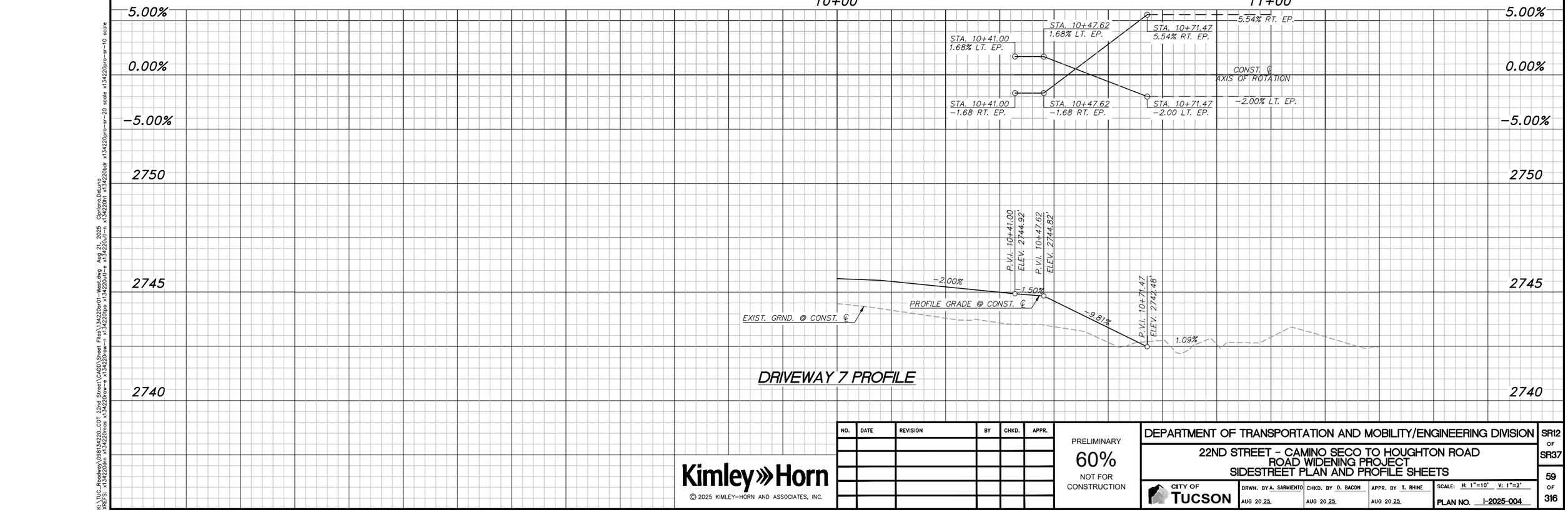


0 10' 20'
SCALE: 1"=10'

GENERAL NOTES:

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* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



DRIVEWAY 7 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

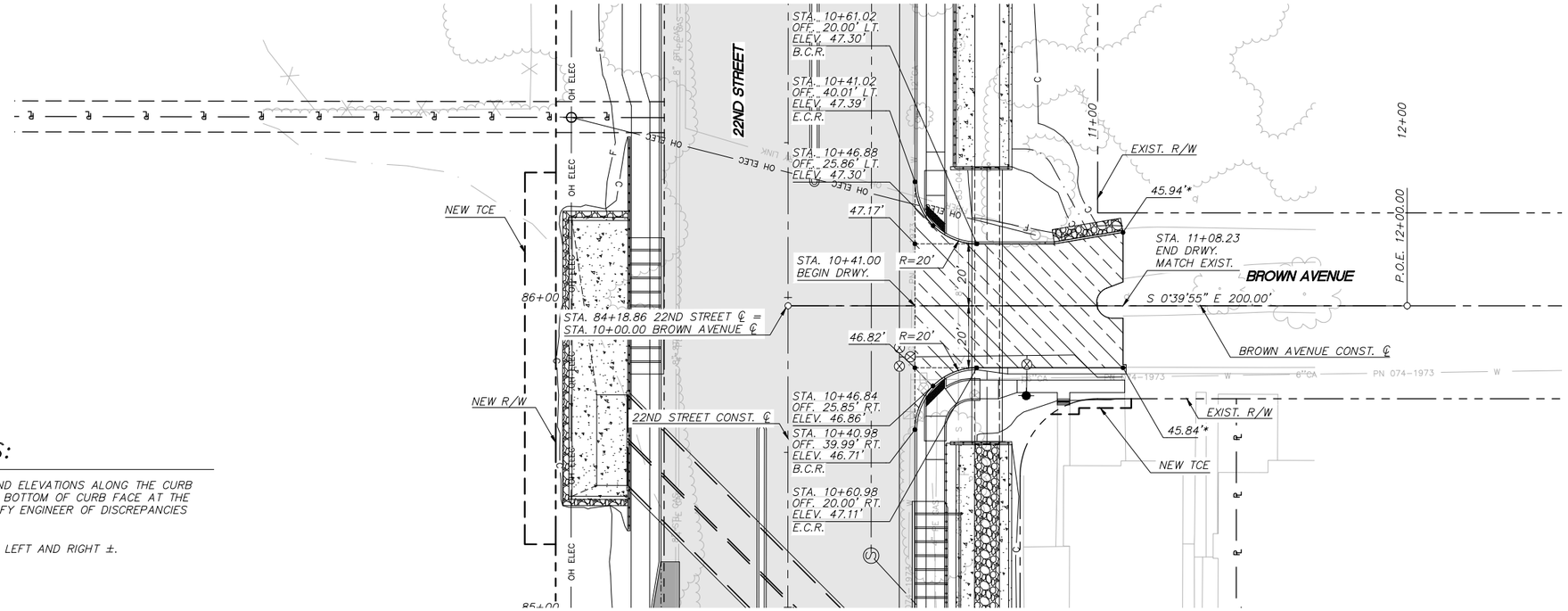
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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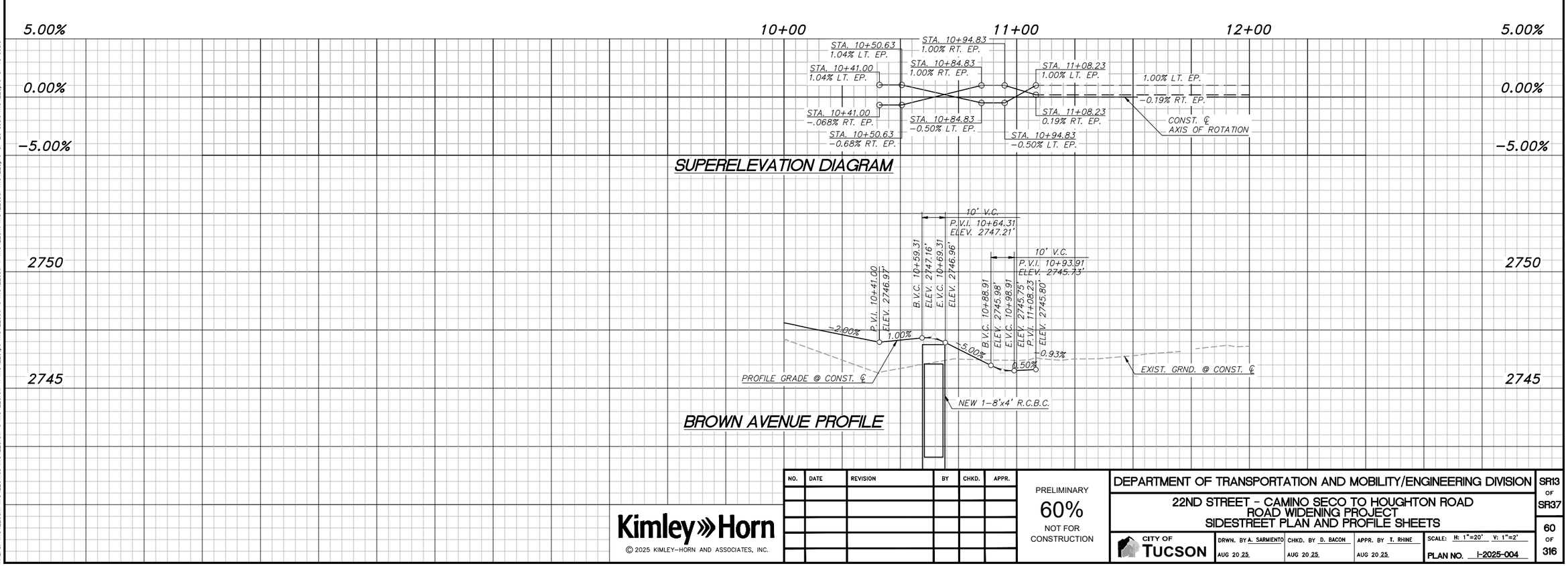
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

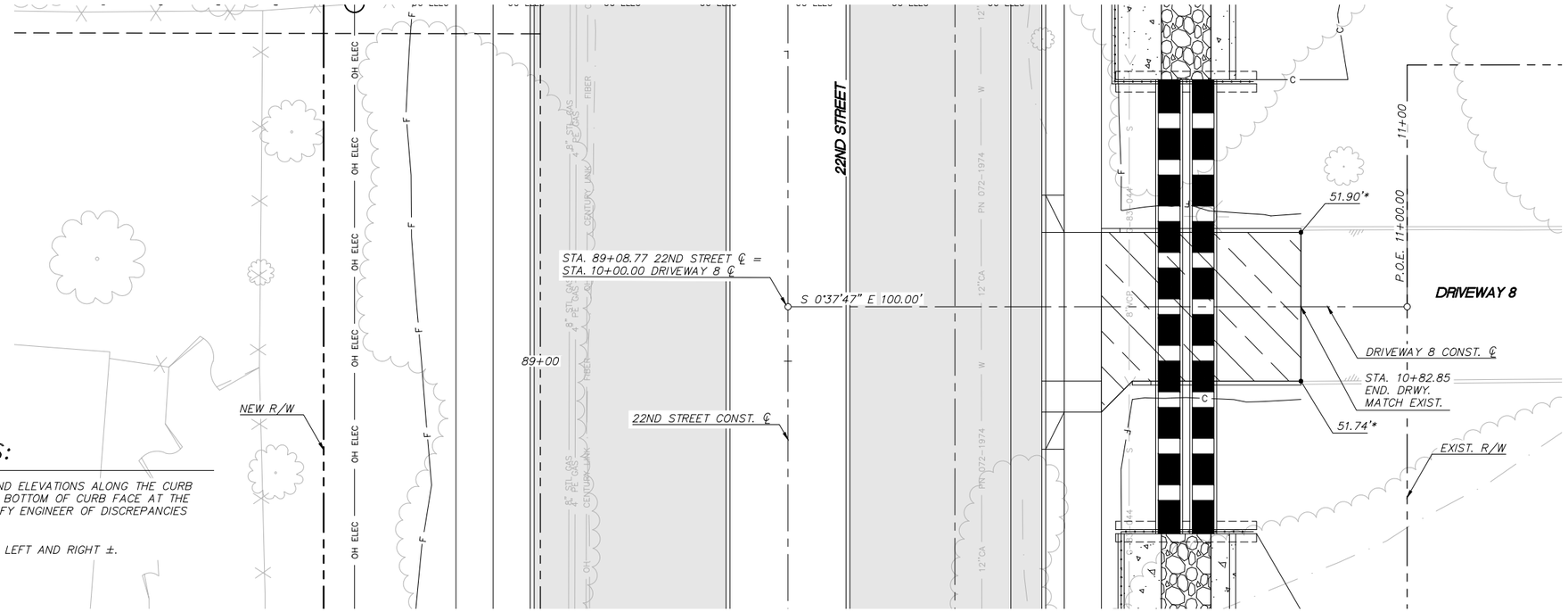
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=20' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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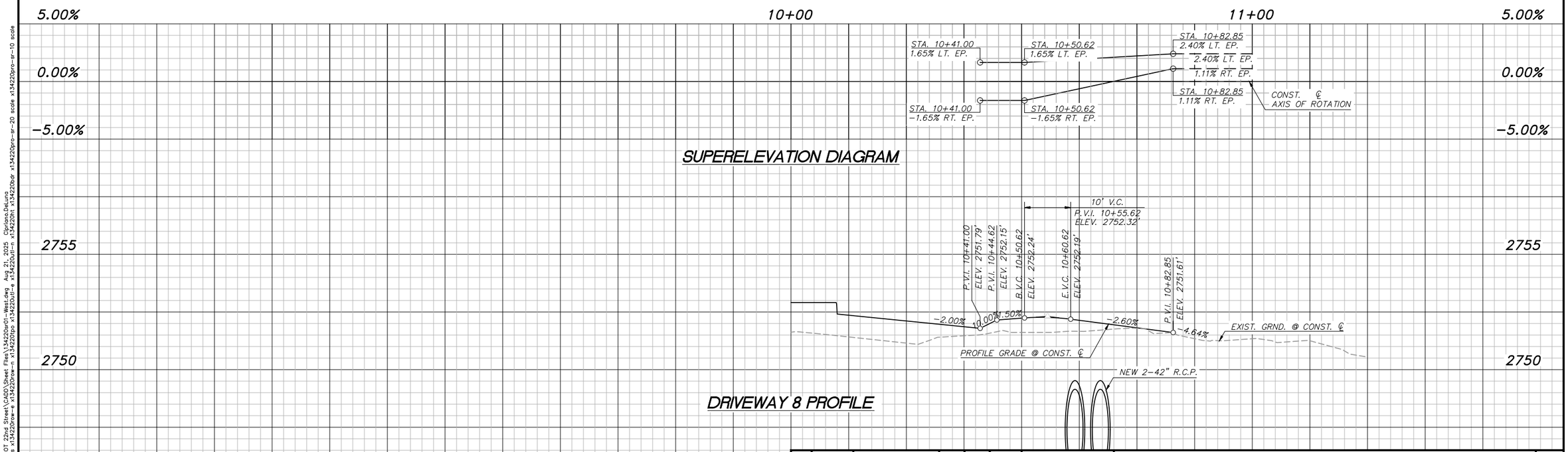
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GENERAL NOTES:

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

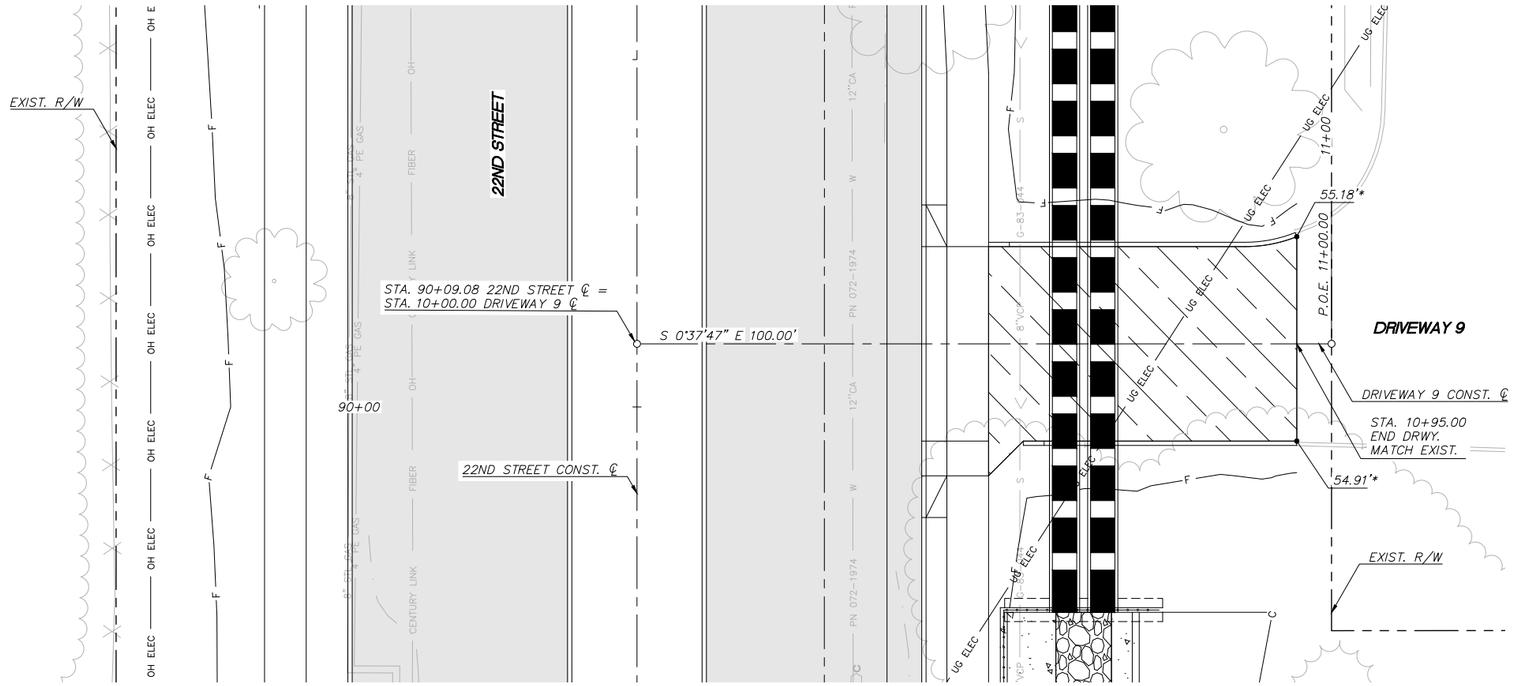
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=10' V: 1"=2'
A. SARMIENTO AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

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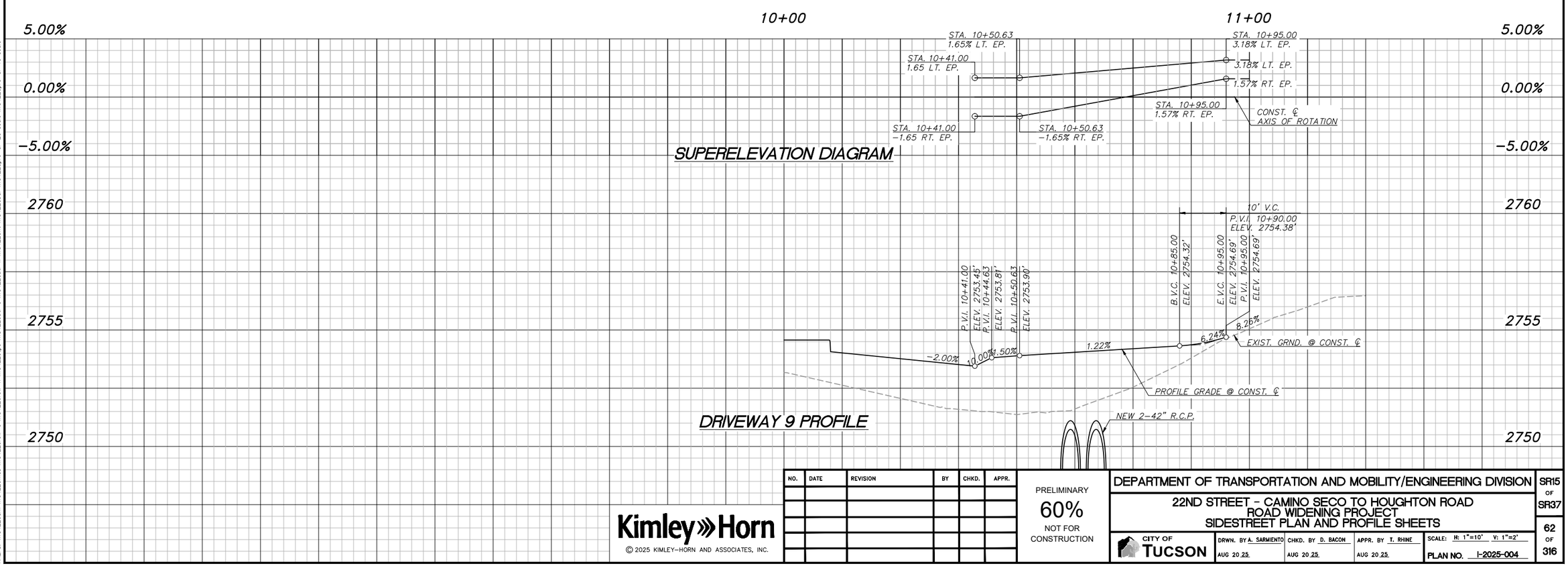
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GENERAL NOTES:

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* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



0 10' 20'
SCALE: 1"=10'

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

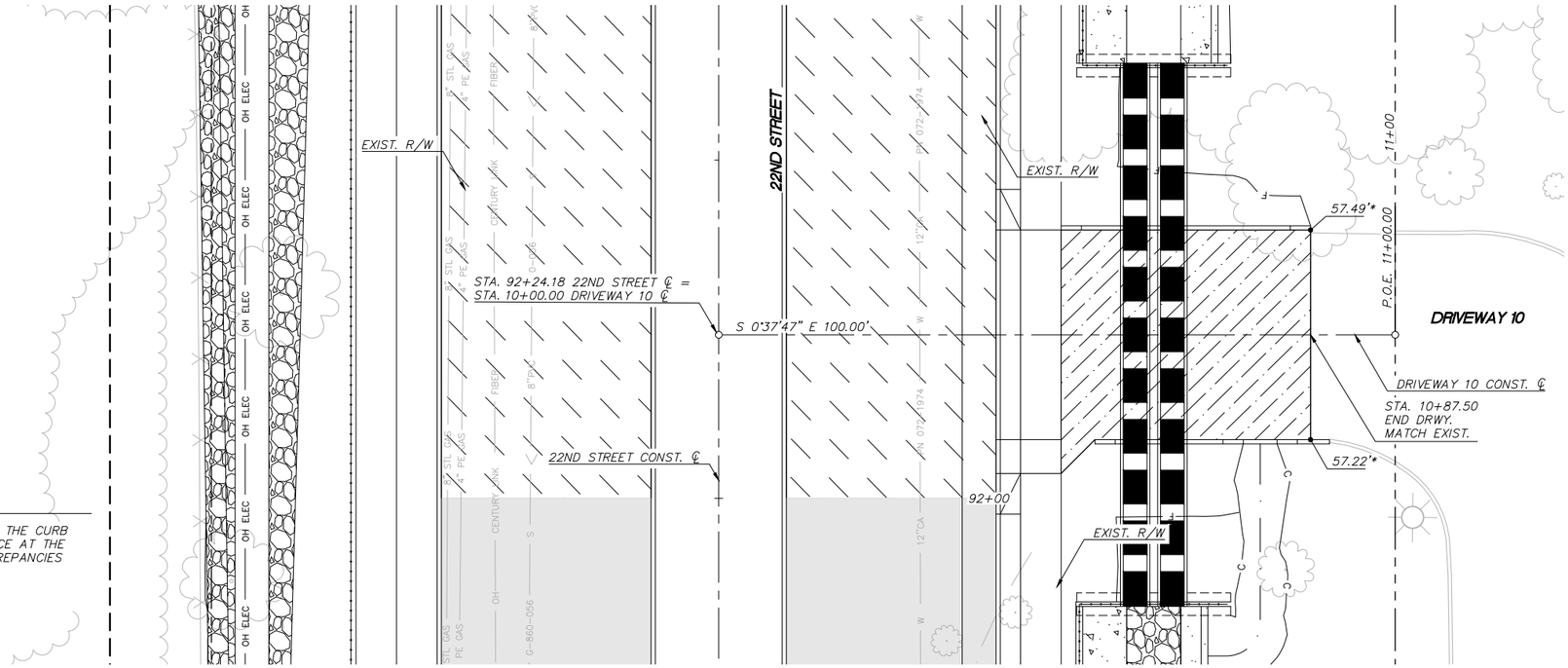
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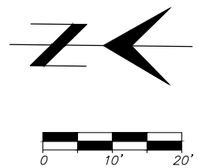
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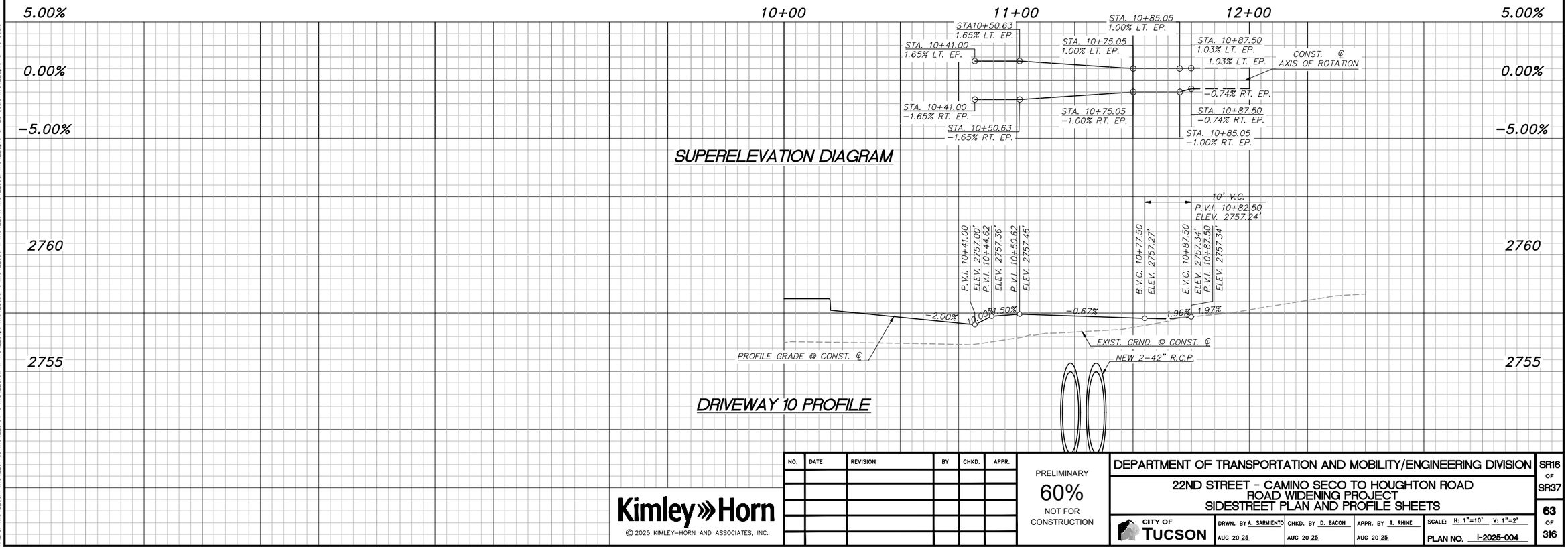




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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

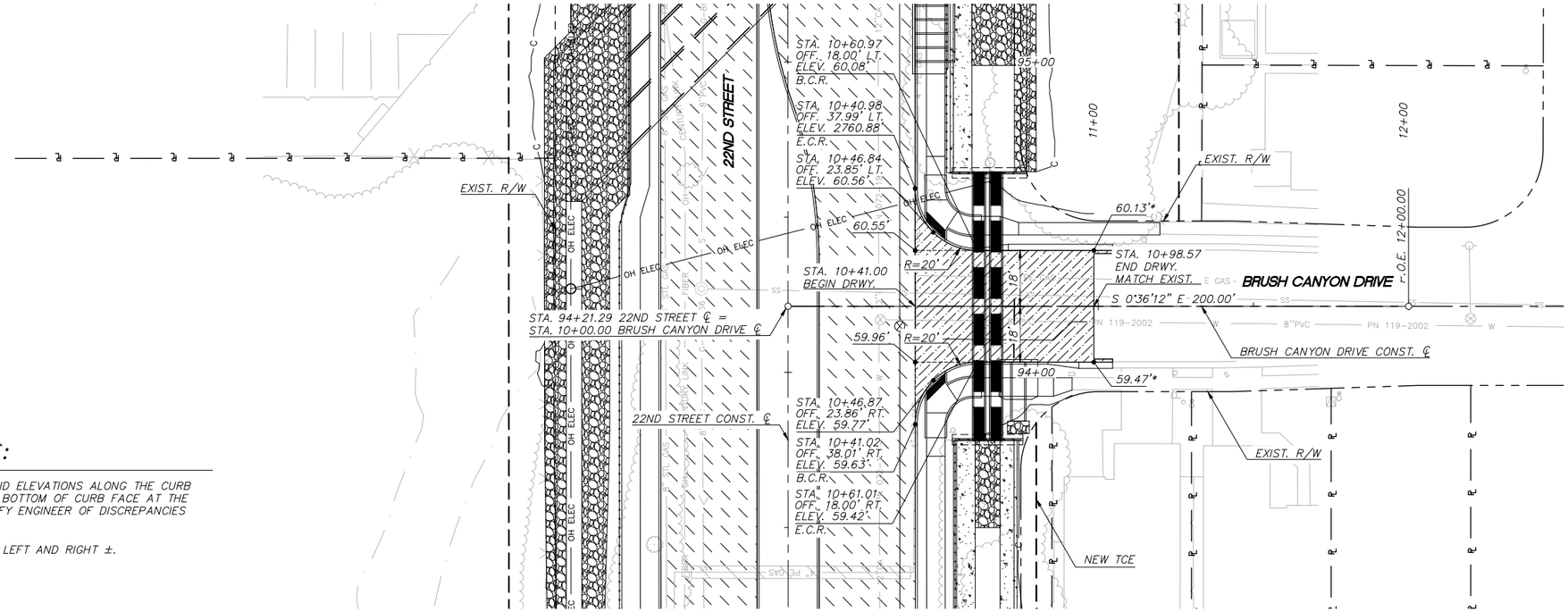
CITY OF TUCSON

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A. SARMIENTO AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

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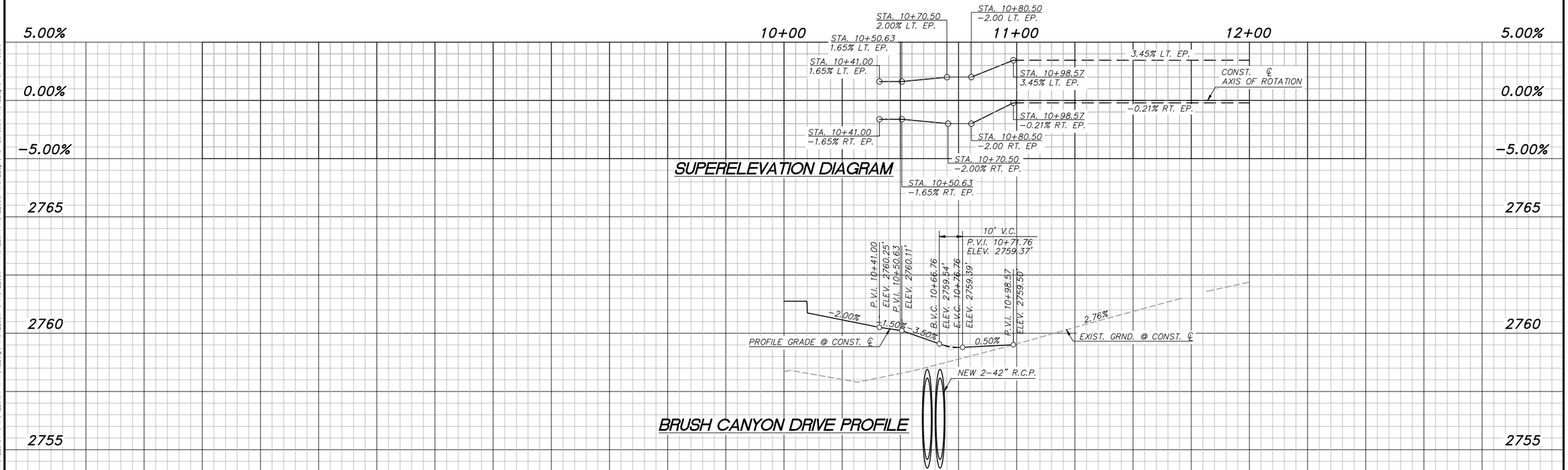
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

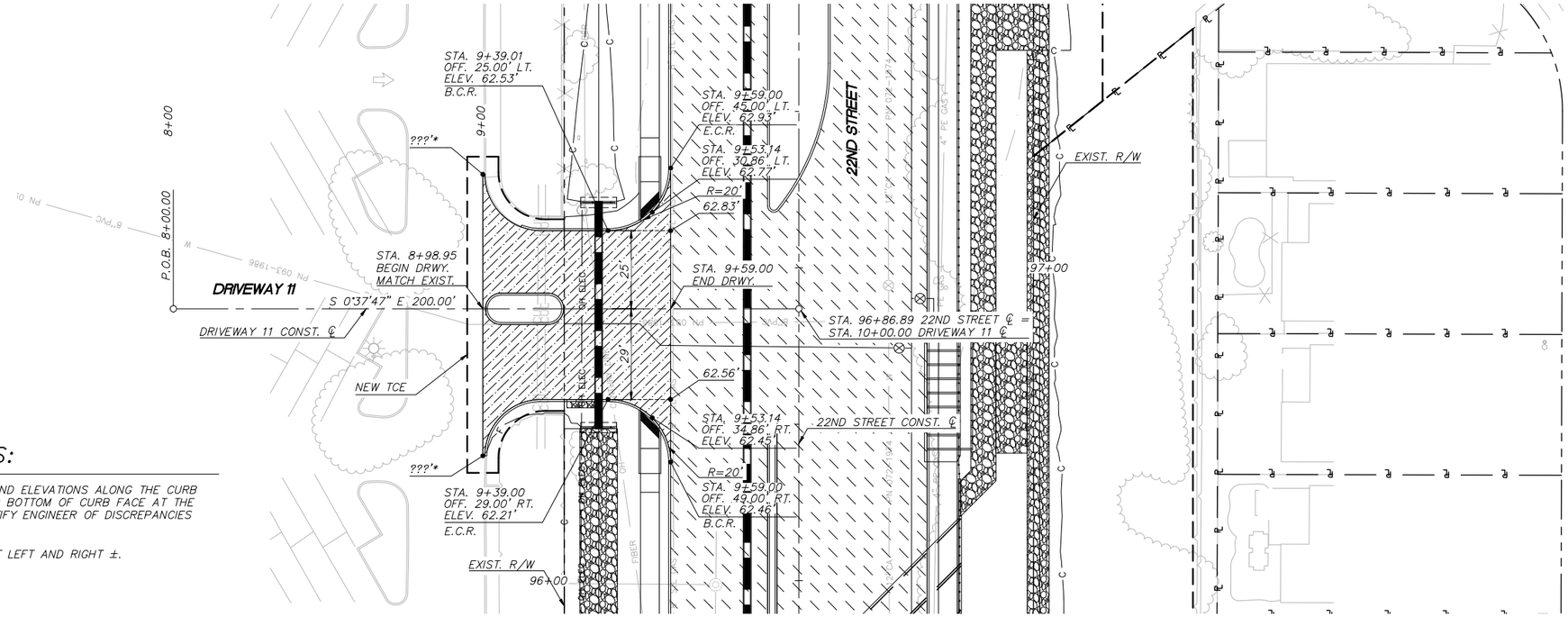
CITY OF TUCSON

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CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

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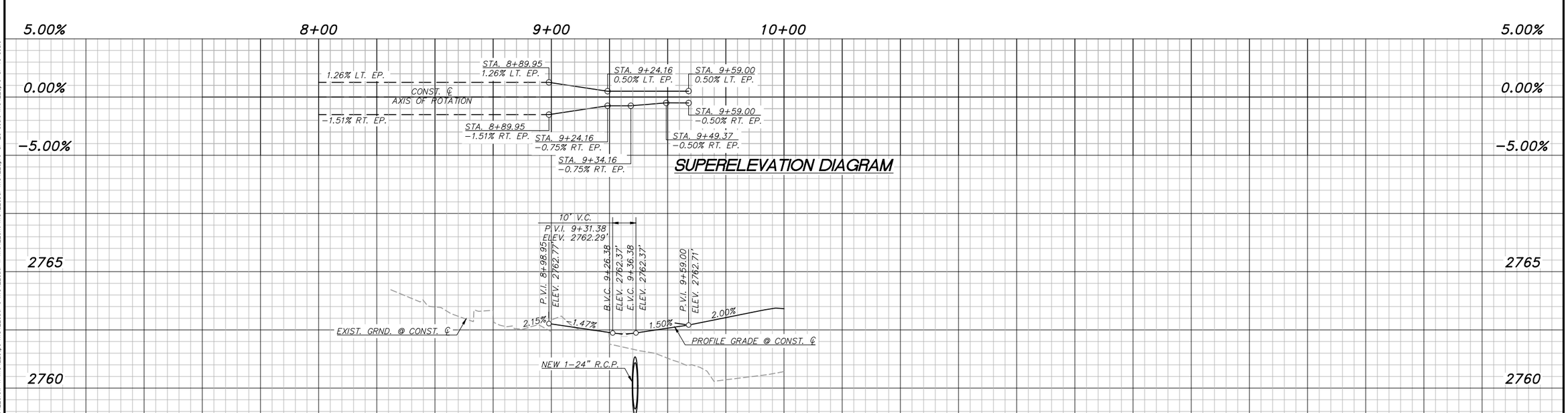
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

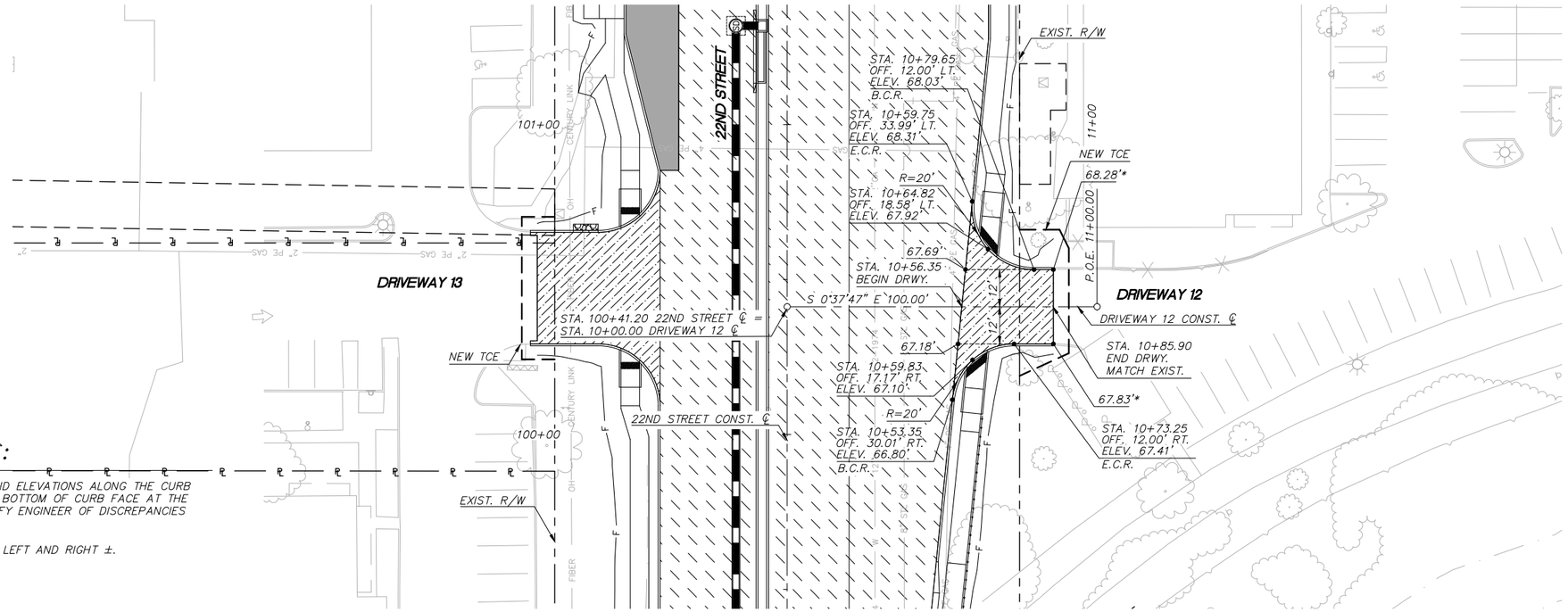
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=20' V: 1"=2'
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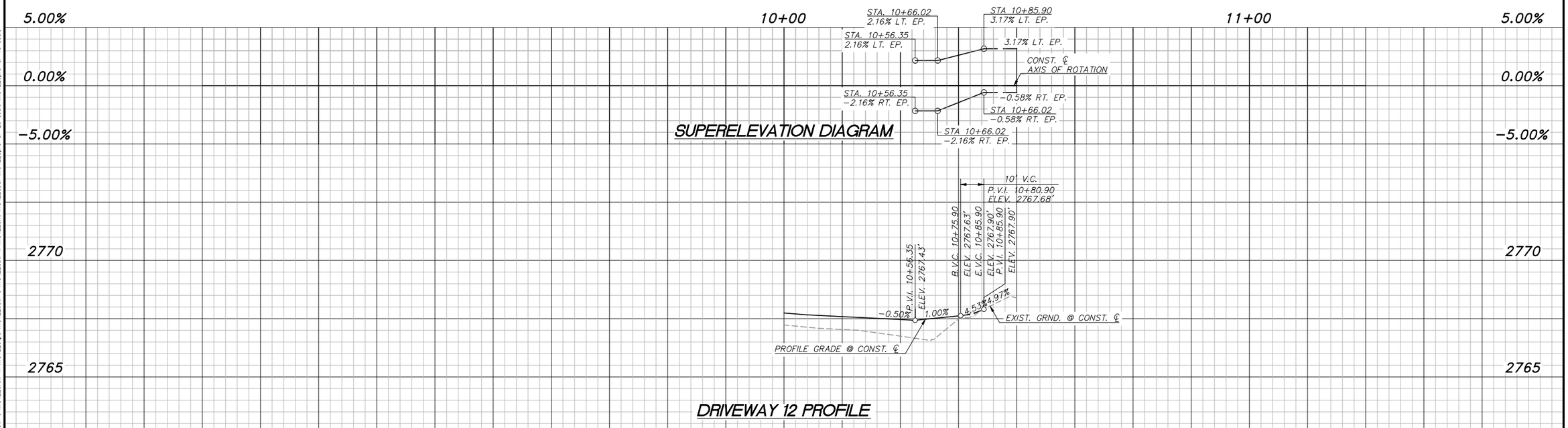
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

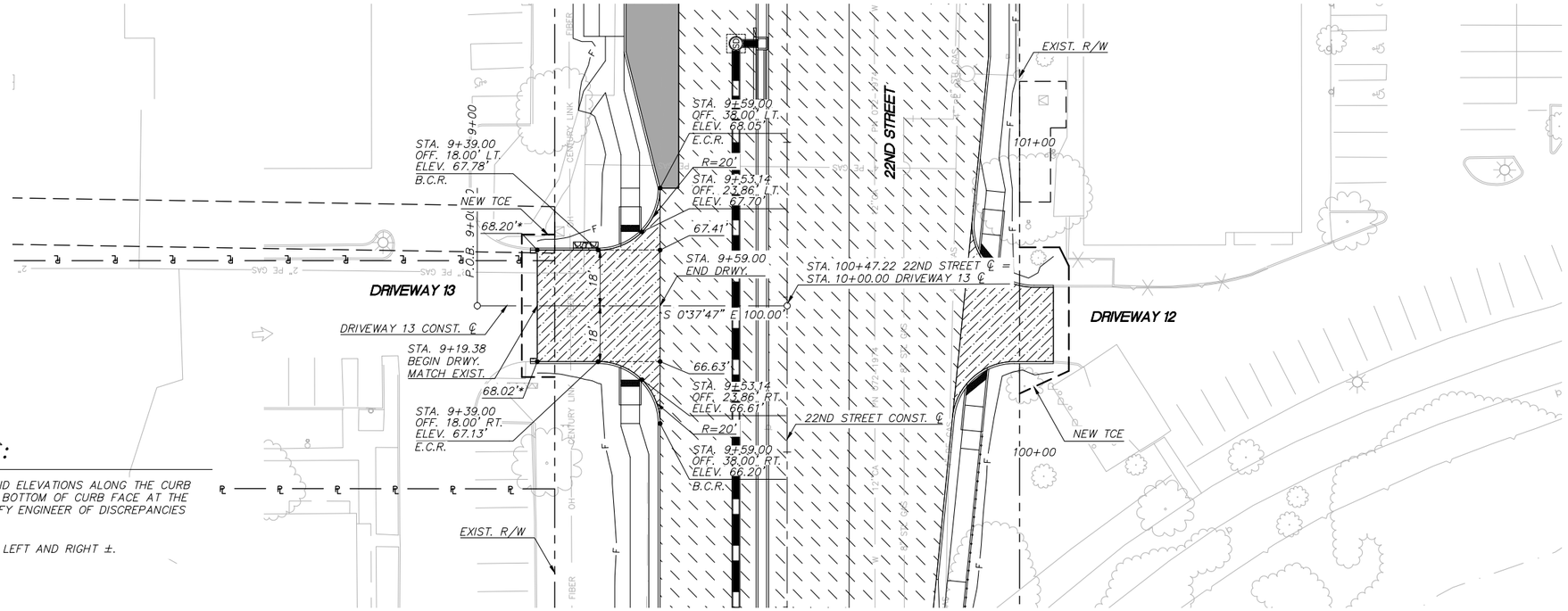
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CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

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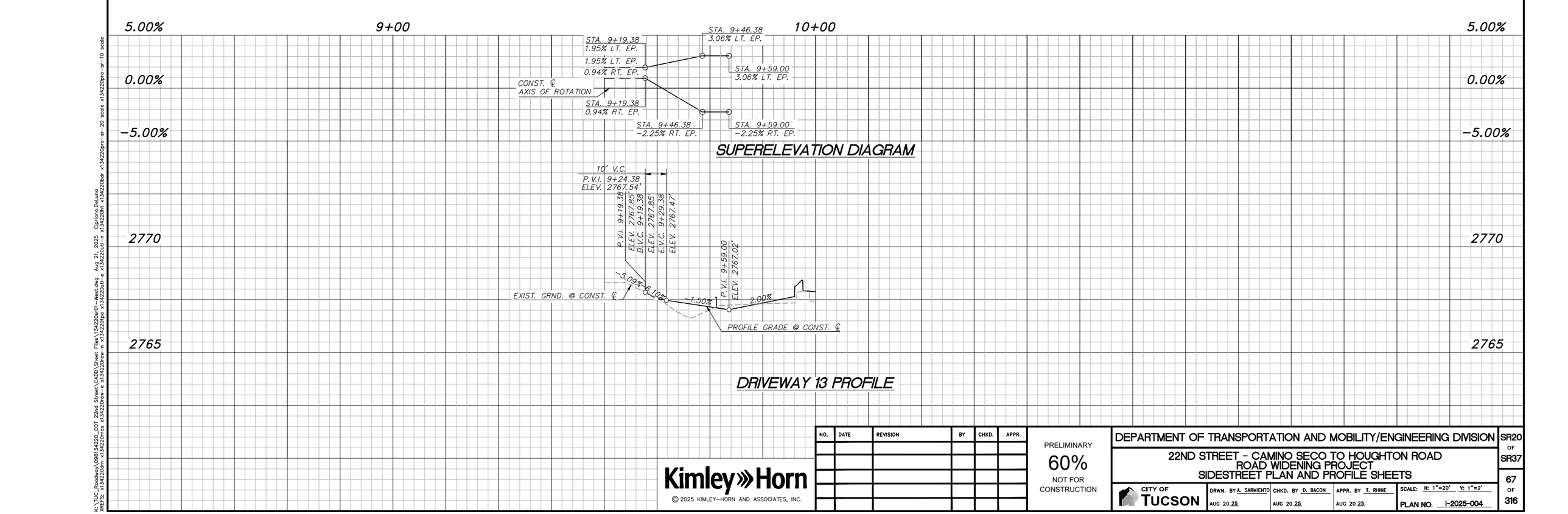
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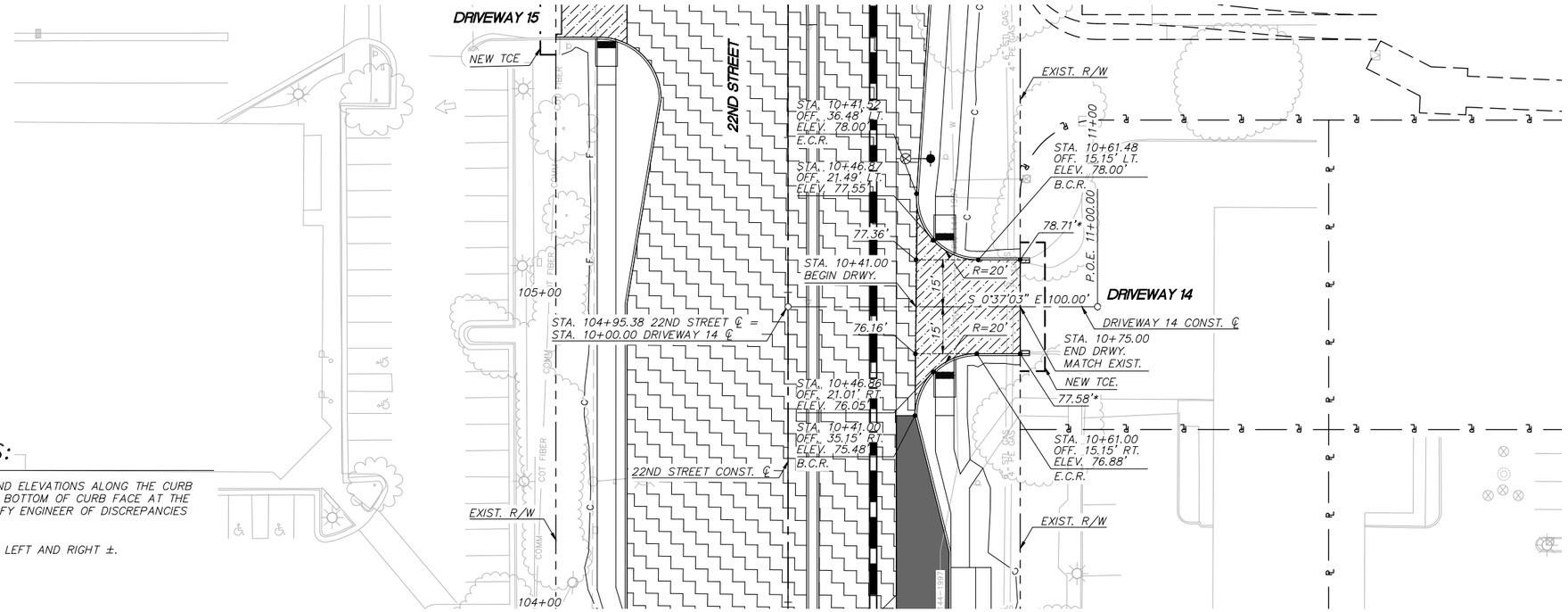
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

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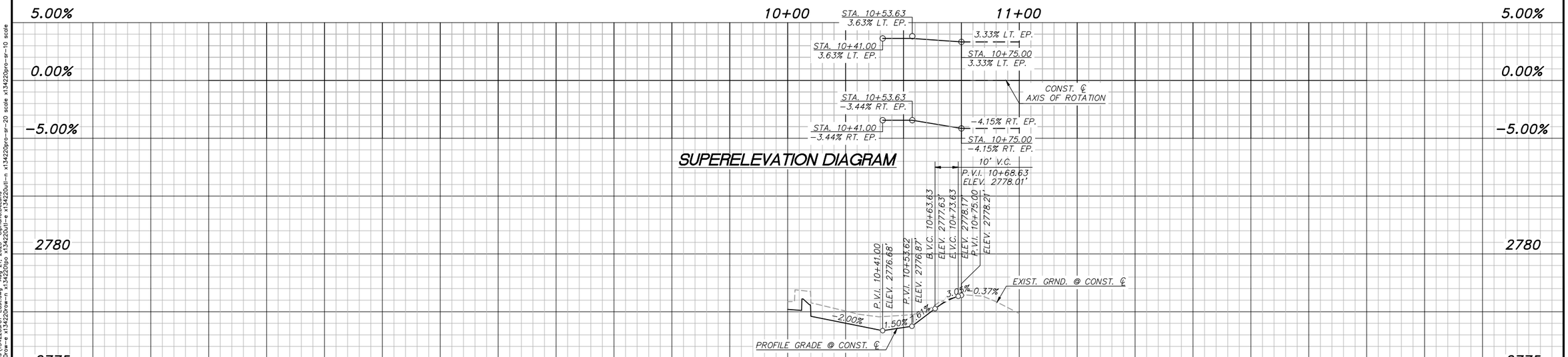
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GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



SUPERELEVATION DIAGRAM

DRIVEWAY 14 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

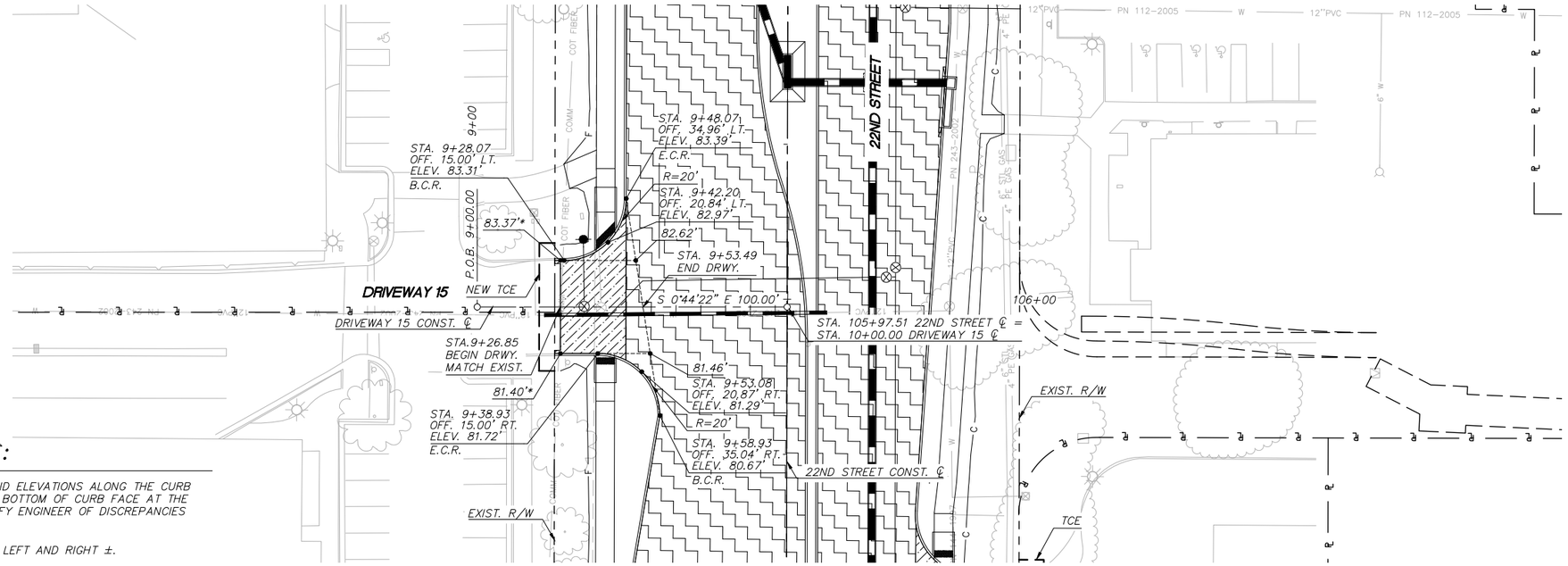
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=20' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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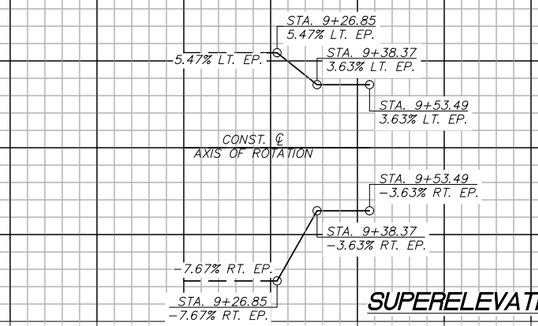
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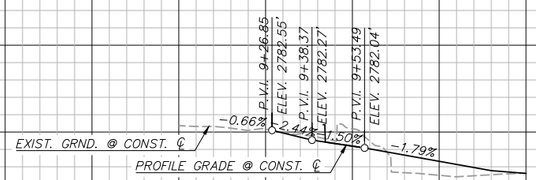
GENERAL NOTES:

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2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



SUPERELEVATION DIAGRAM



DRIVEWAY 15 PROFILE

10.00% 9+00 10+00 10.00%

5.00% 0.00% -5.00% -10.00% 2785 2780

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

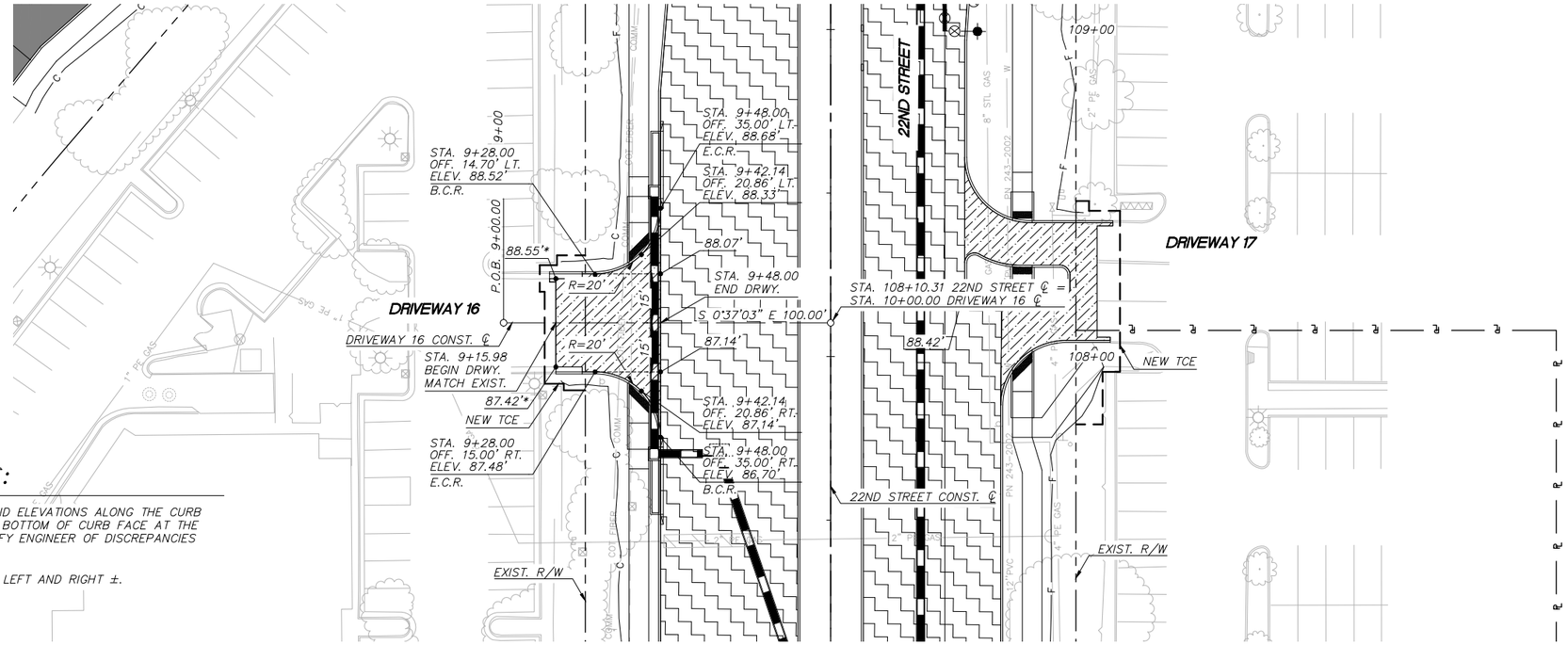
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

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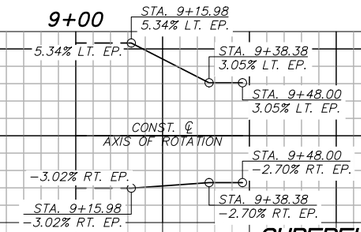
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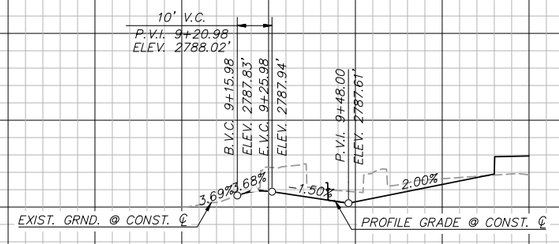
GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



SUPERELEVATION DIAGRAM



DRIVEWAY 16 PROFILE

5.00%
0.00%
-5.00%
2790
2785

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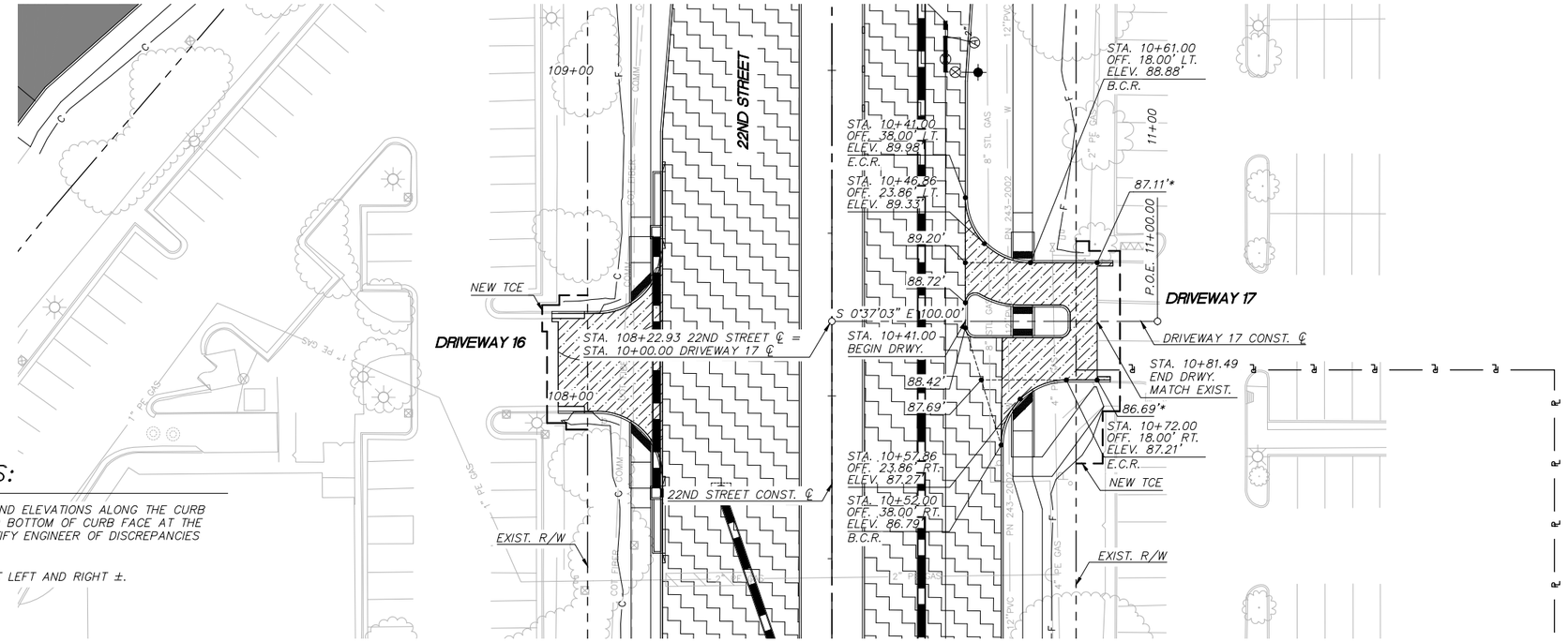
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

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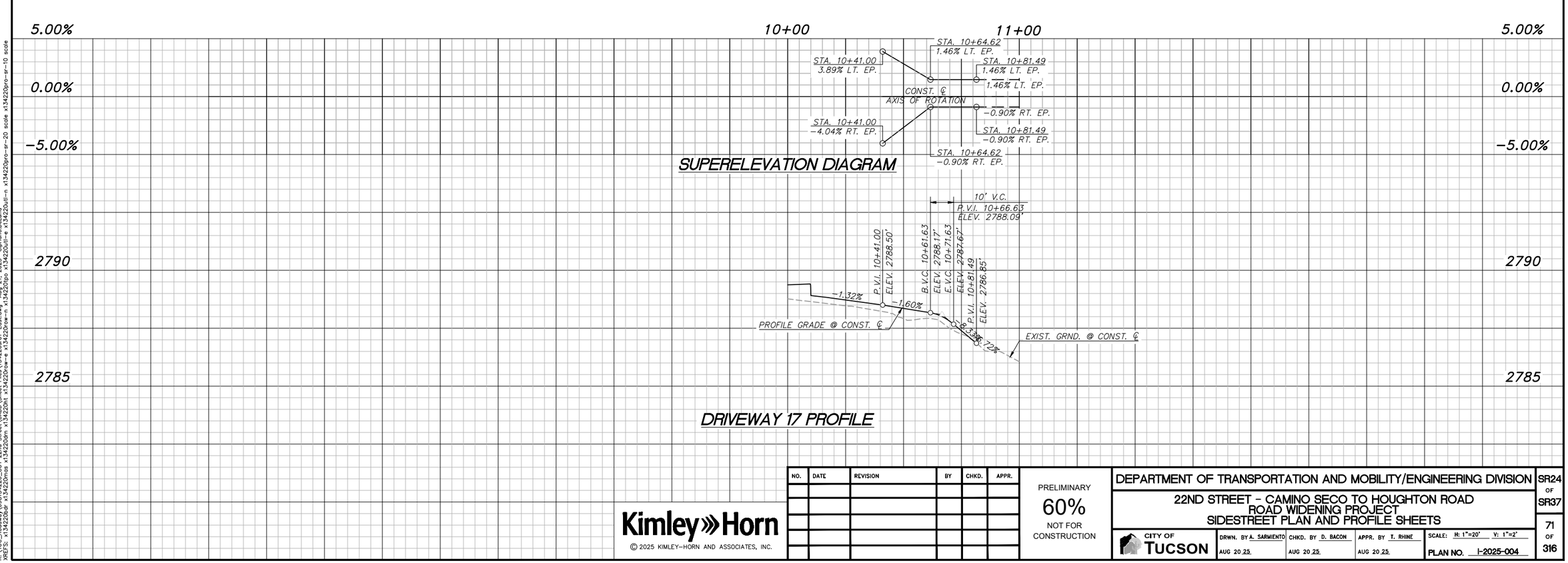
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GENERAL NOTES:

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2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

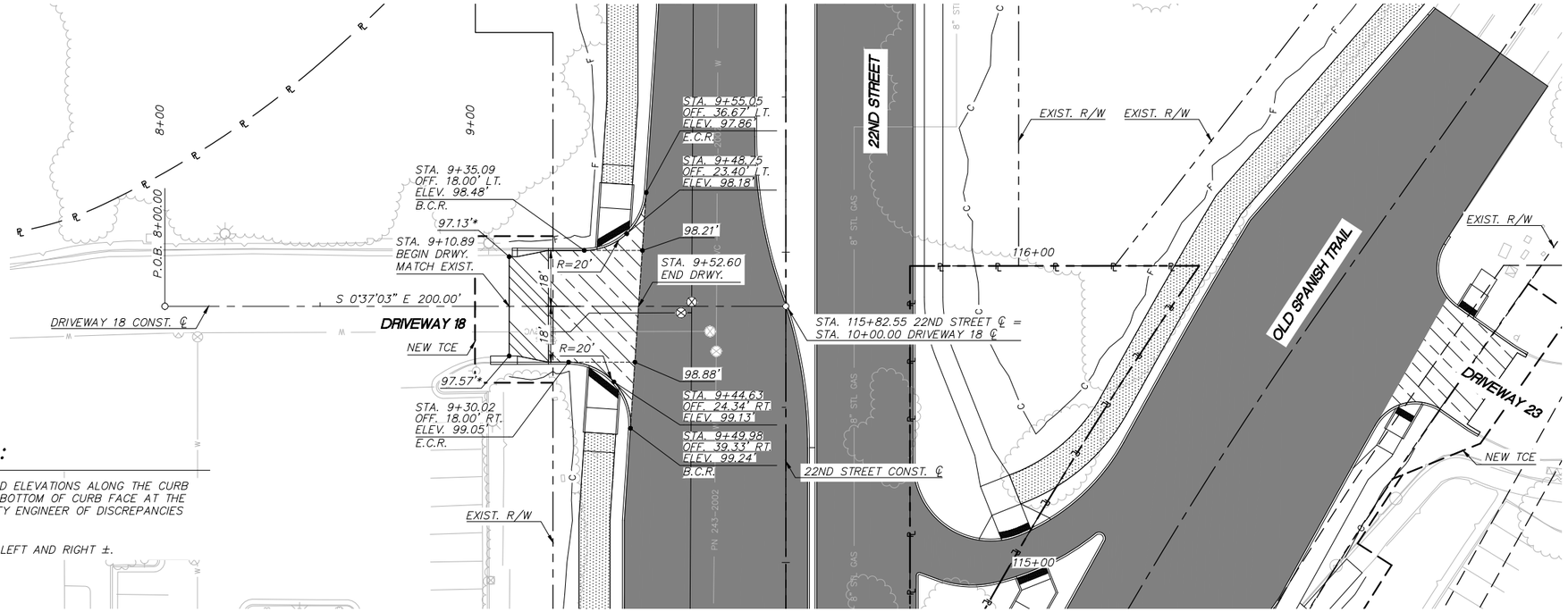
CITY OF TUCSON

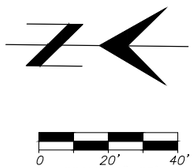
DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=20' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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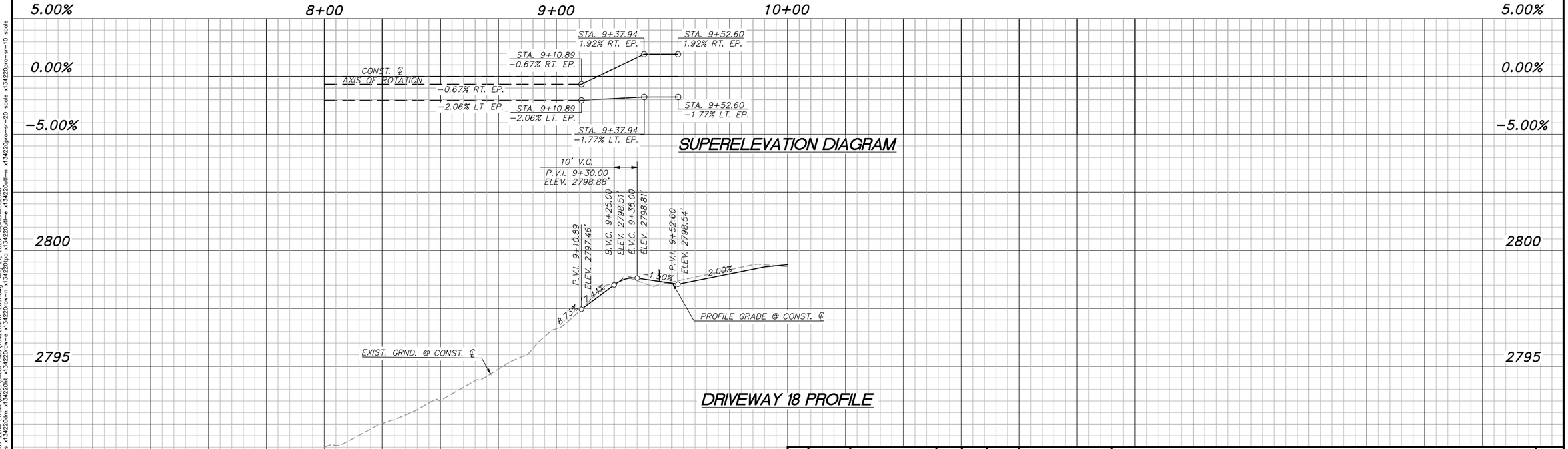




GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2700'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

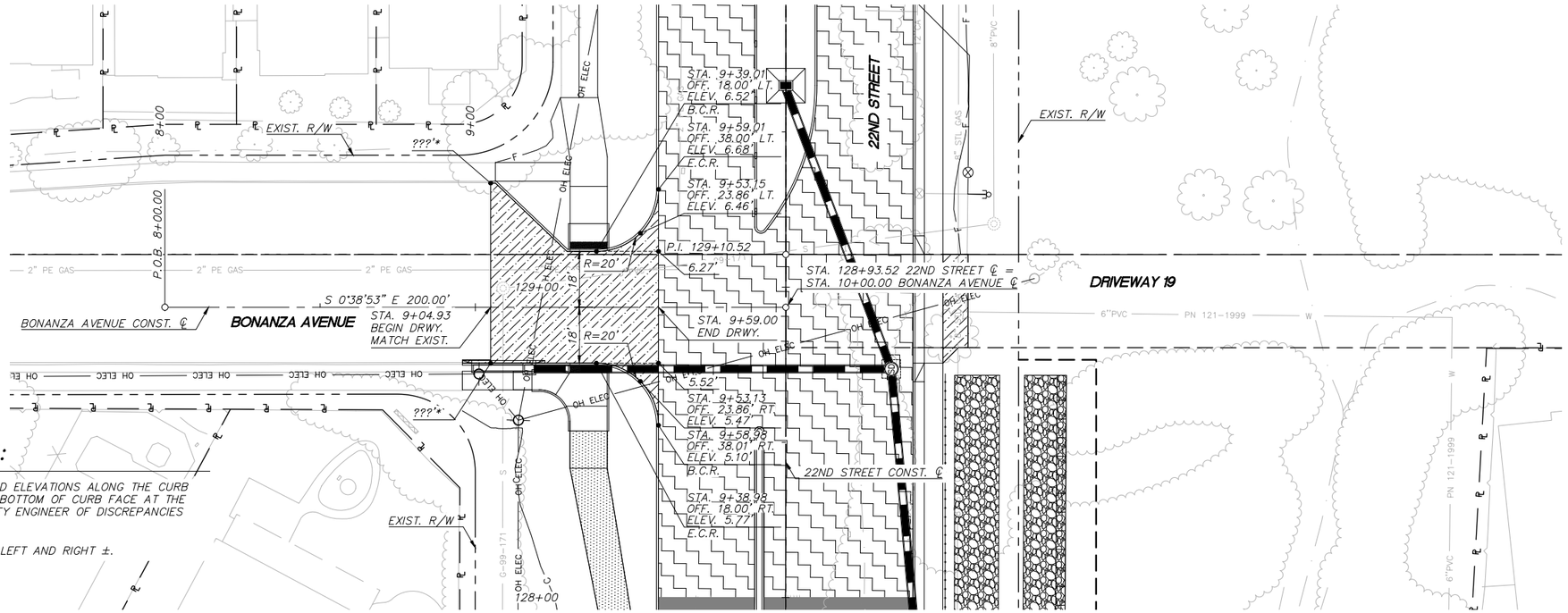
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=20' V: 1"=2'
A. SARMIENTO AUG 20 25	D. BACON AUG 20 25	T. RHINE AUG 20 25	PLAN NO. I-2025-004

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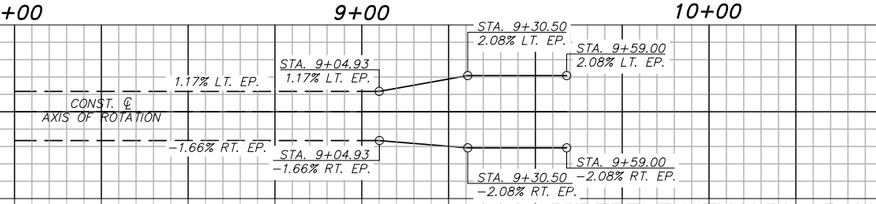
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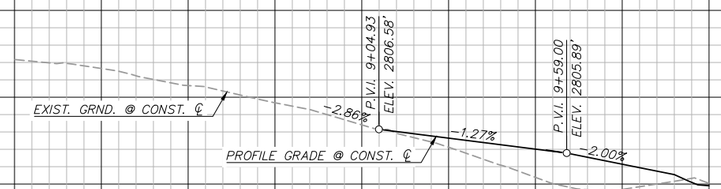
GENERAL NOTES:

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2. BASE ELEVATION IS 2800'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



SUPERELEVATION DIAGRAM



BONANZA AVENUE PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

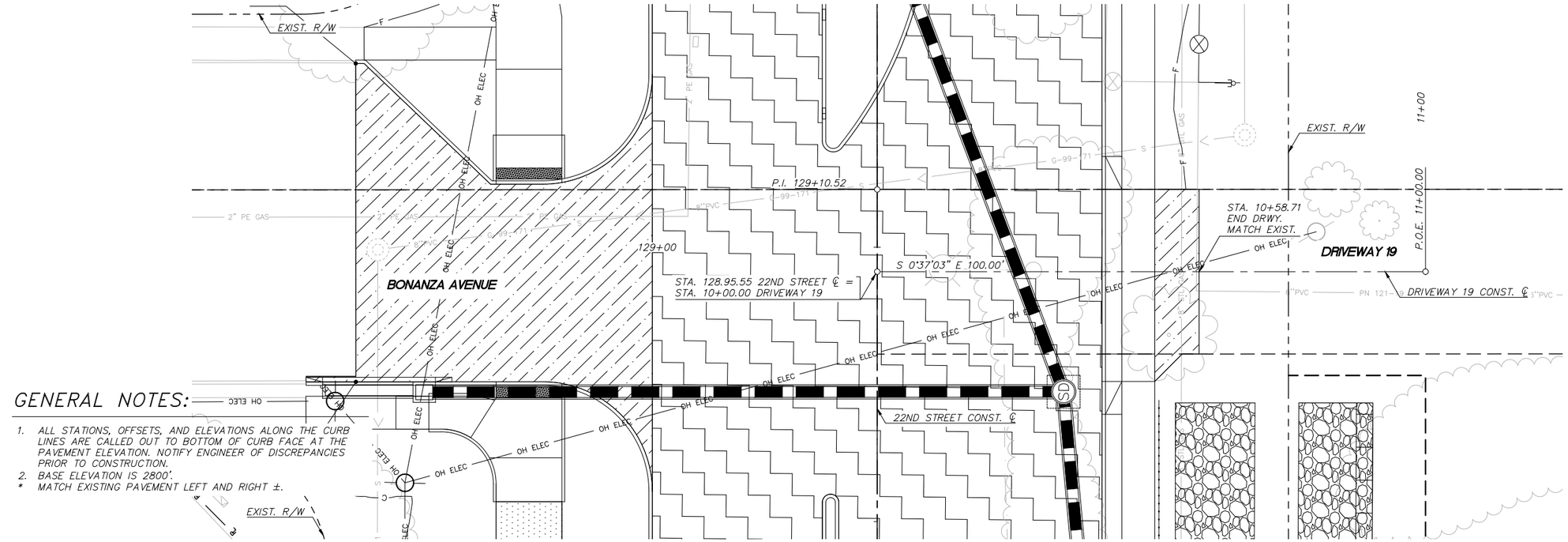
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=20' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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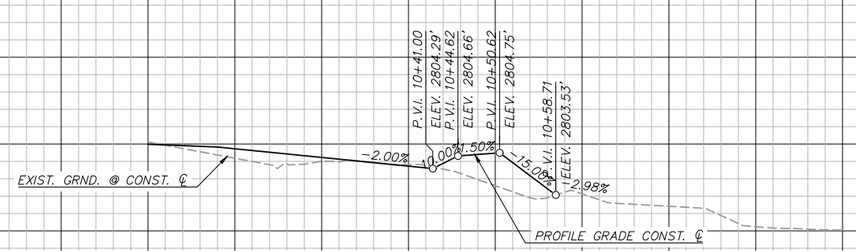
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GENERAL NOTES:

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2. BASE ELEVATION IS 2800'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



DRIVEWAY 19 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

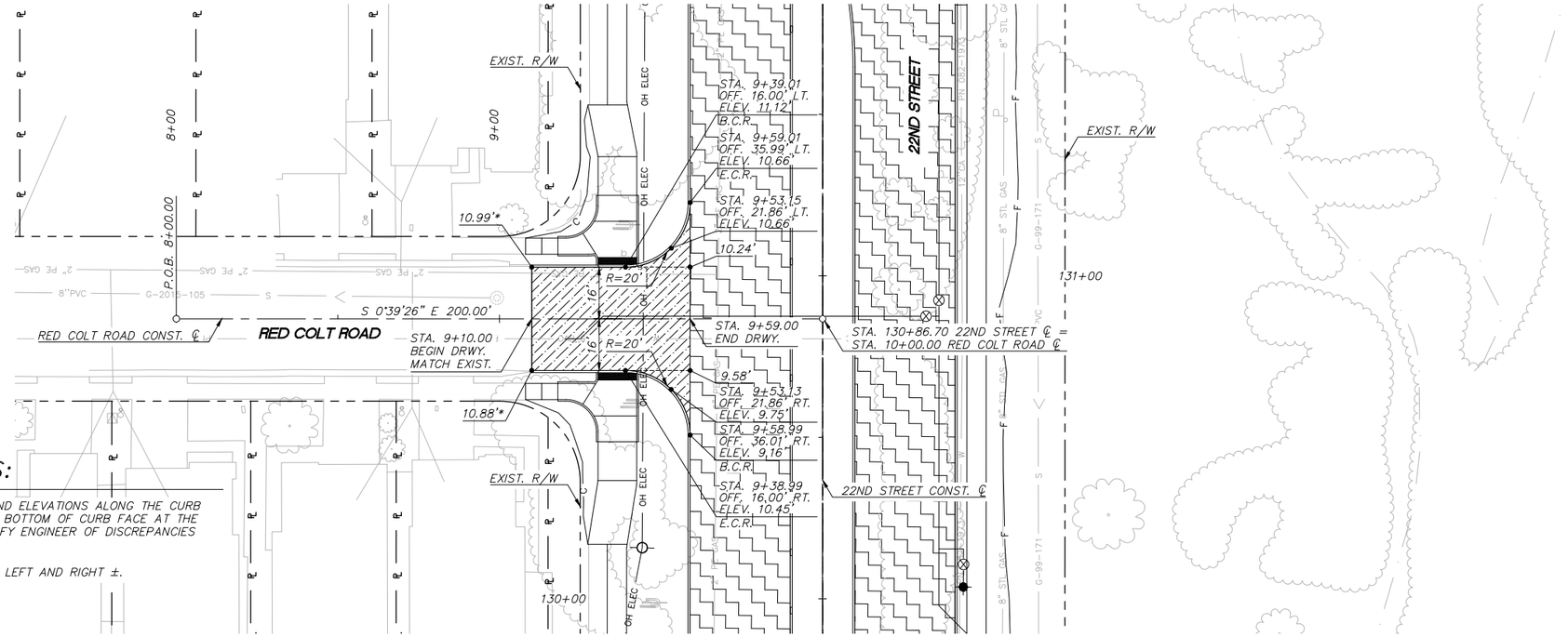
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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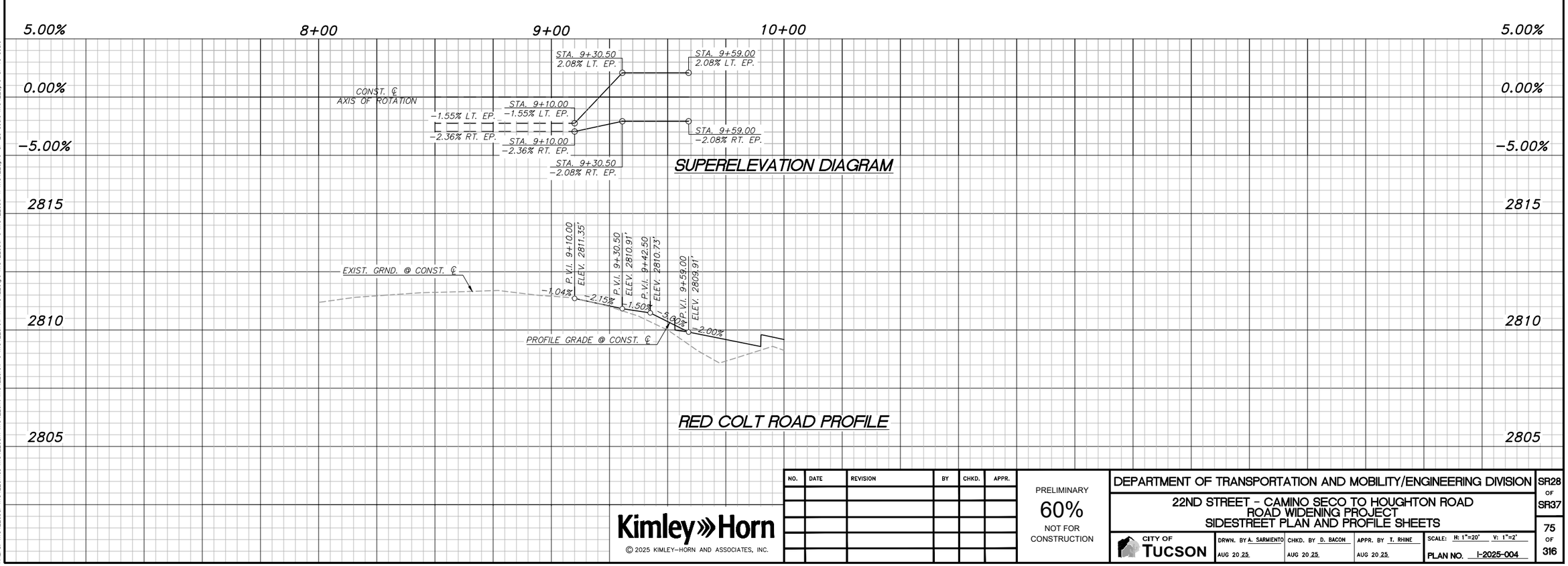
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GENERAL NOTES:

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2. BASE ELEVATION IS 2800'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

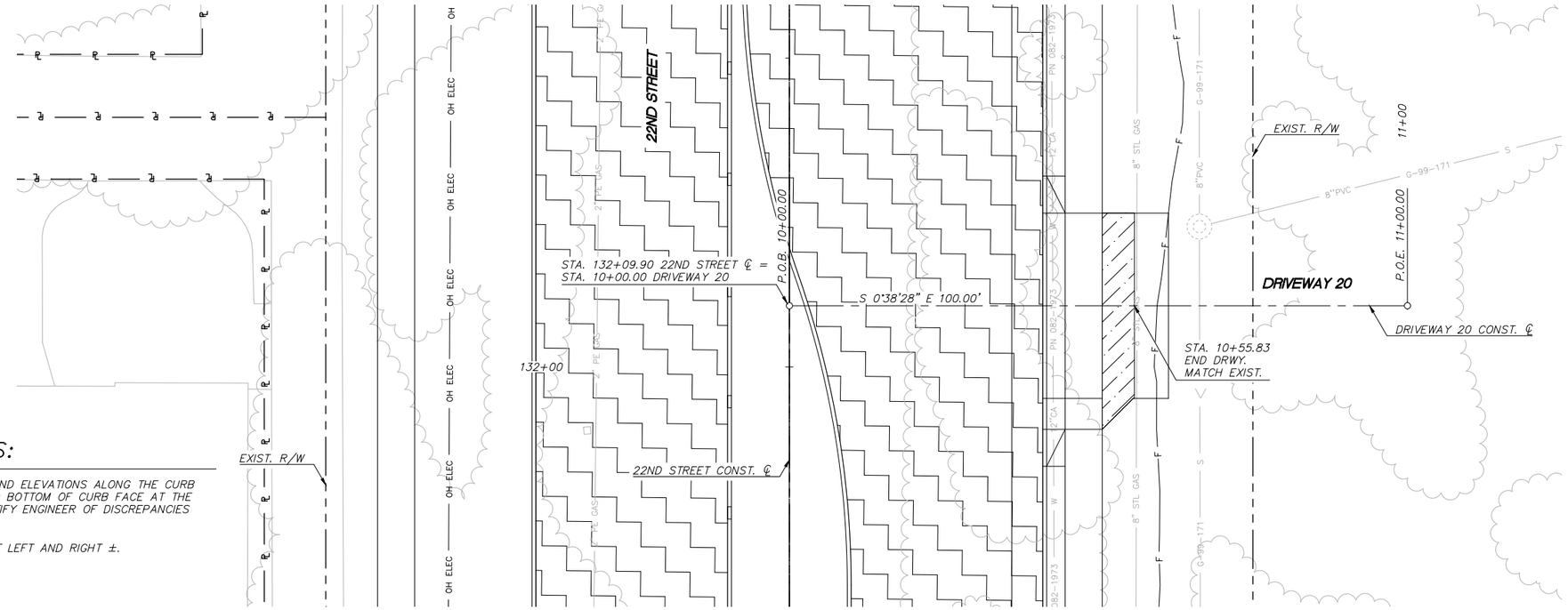
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=20' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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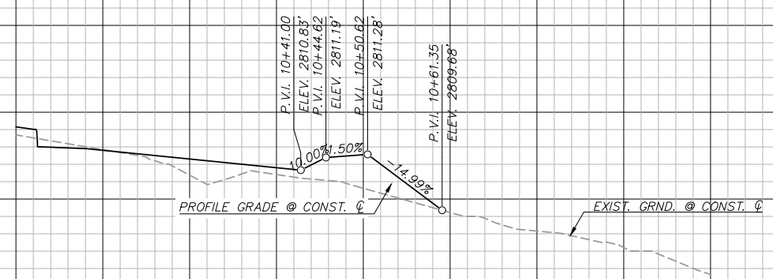
GENERAL NOTES:

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2. BASE ELEVATION IS 2800'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.

10+00 11+00

SUPERELEVATION DIAGRAM



DRIVEWAY 20 PROFILE

2815 2810 2805

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

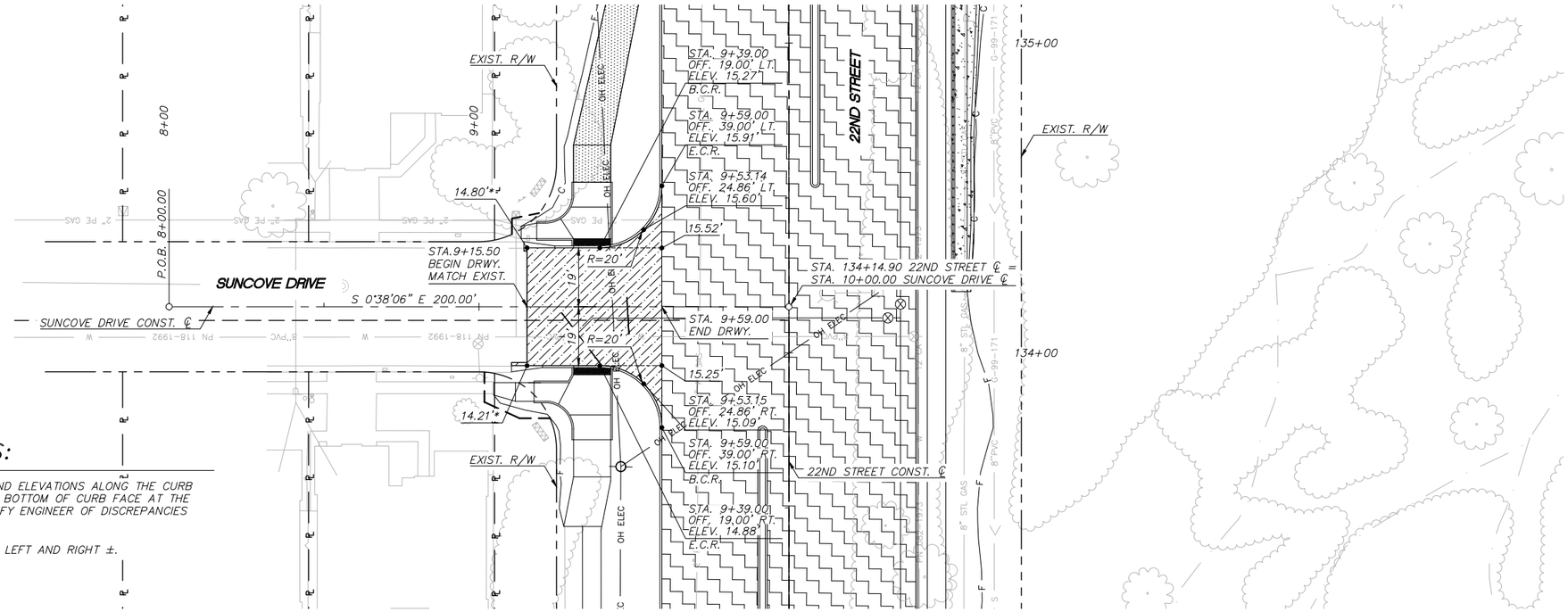
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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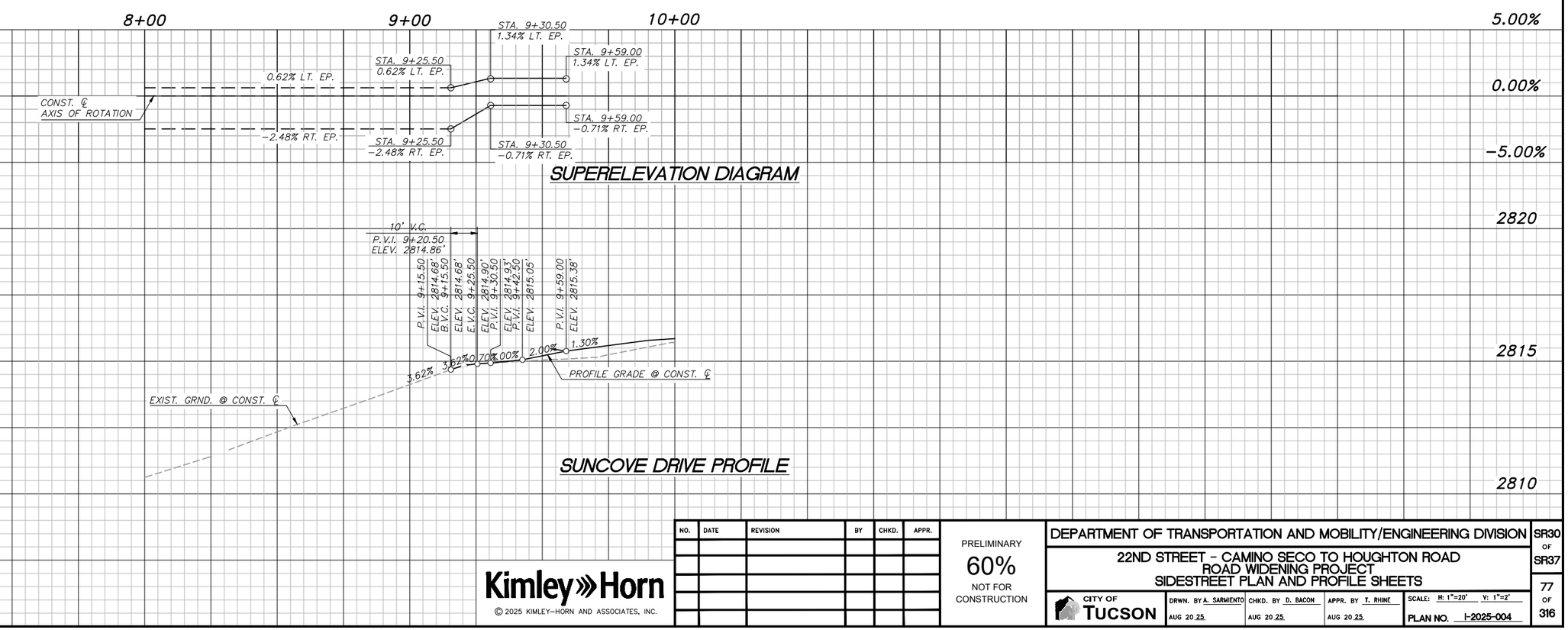
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GENERAL NOTES:

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* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

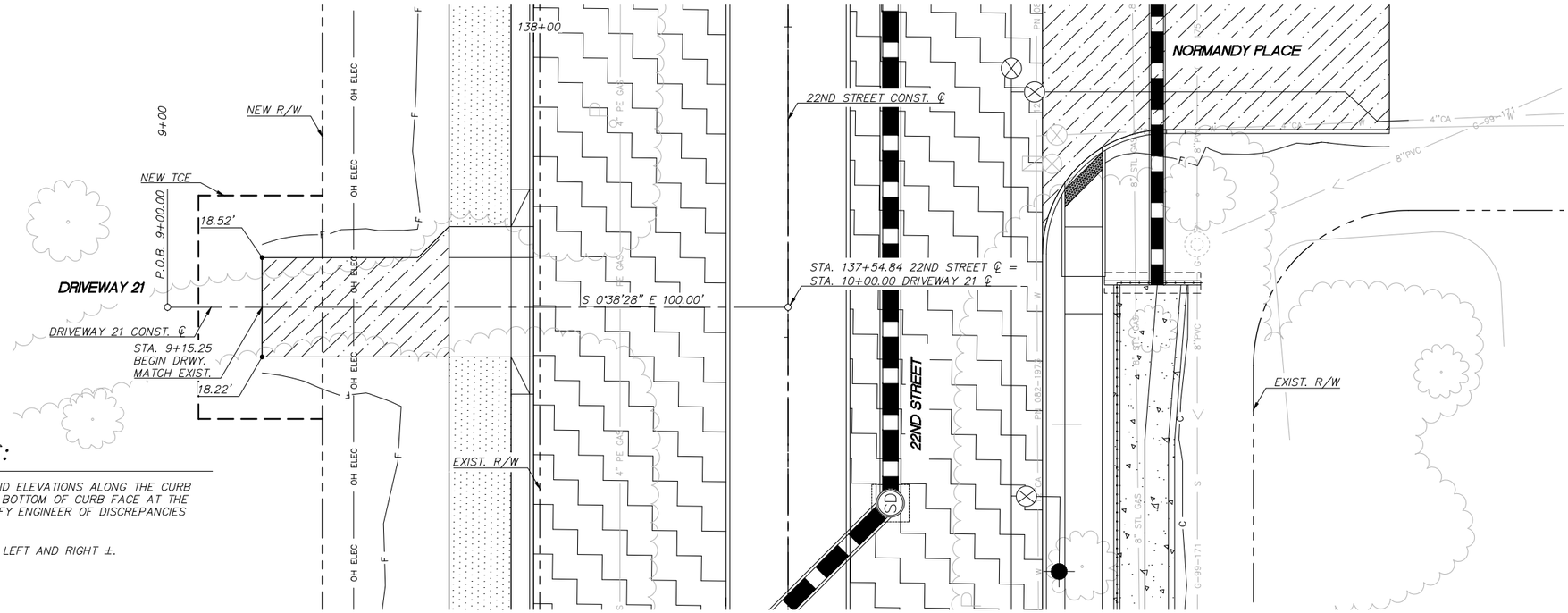
CITY OF TUCSON

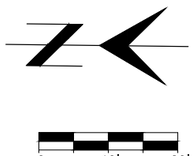
DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=20' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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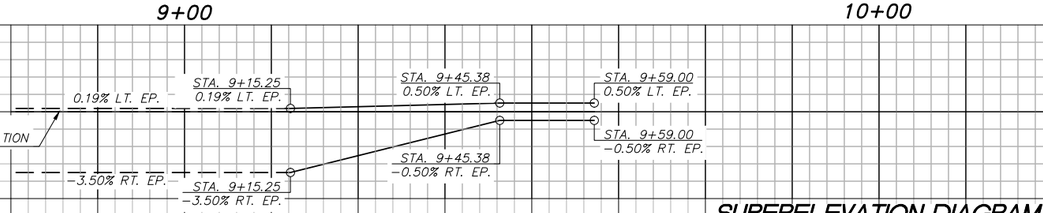




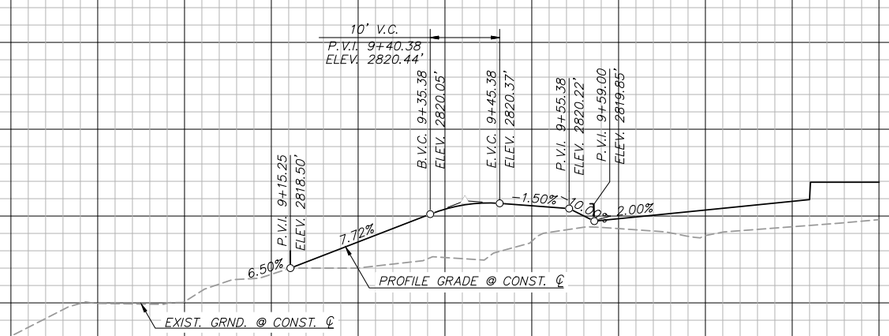
GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2800'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



SUPERELEVATION DIAGRAM



DRIVEWAY 21 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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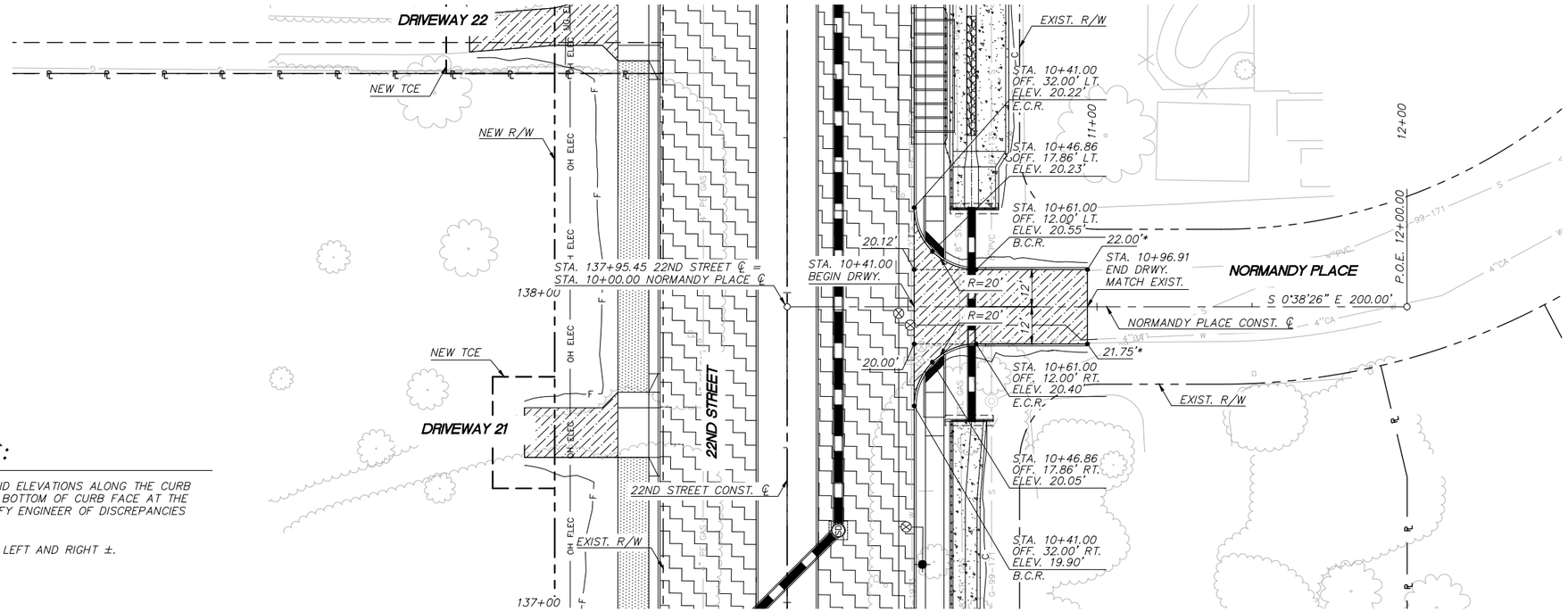
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=10' V: 1"=2'
PLAN NO. I-2025-004

SR31 OF SR37
78 OF 316

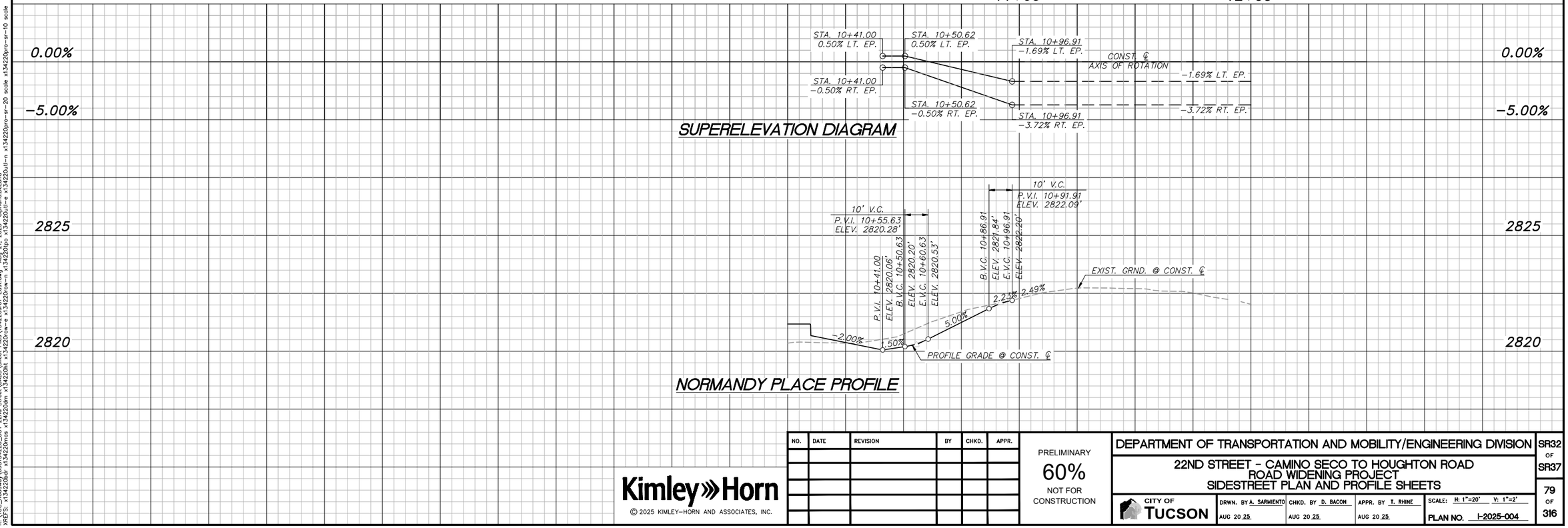
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GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2800'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE
AUG 20 25	AUG 20 25	AUG 20 25

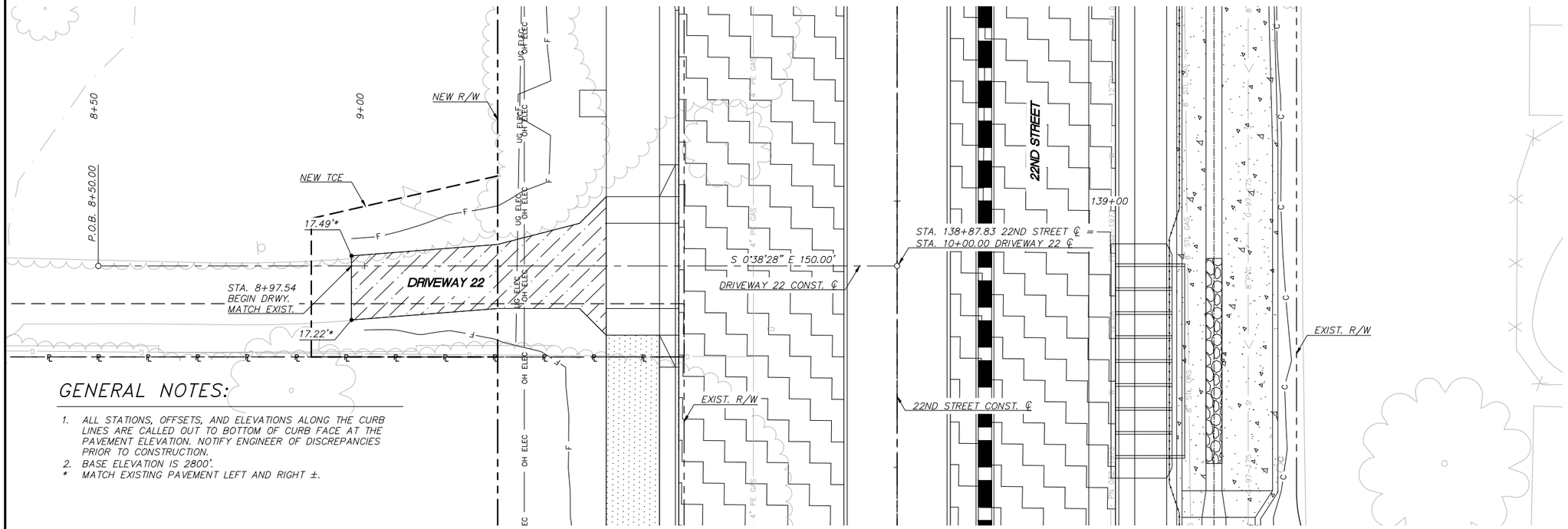
SCALE: H: 1"=20' V: 1"=2'

PLAN NO. I-2025-004

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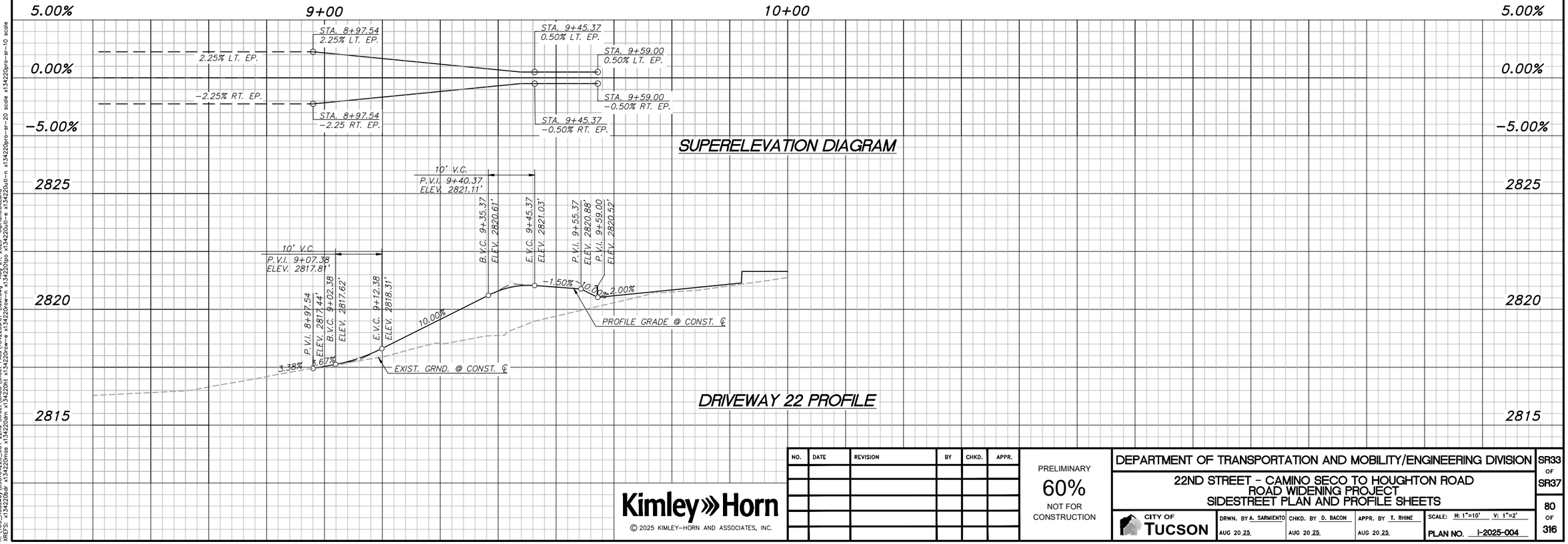


GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2800'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.

0 10' 20'
SCALE: 1"=10'



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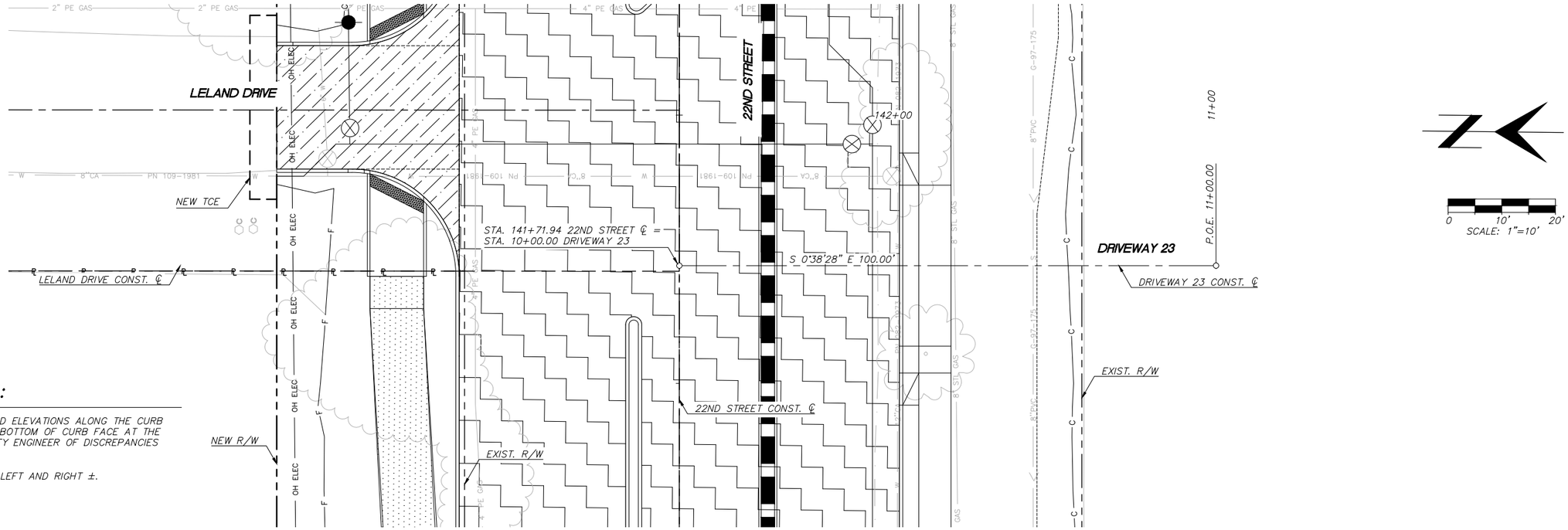
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=10' V: 1"=2'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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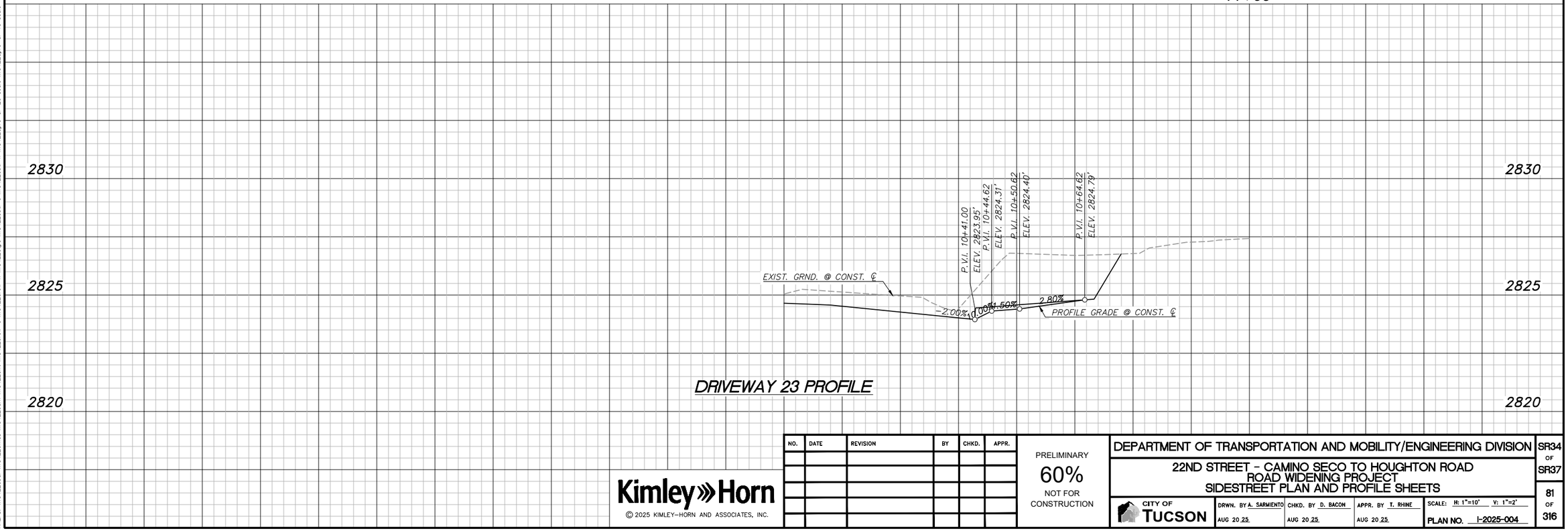
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GENERAL NOTES:

1. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
2. BASE ELEVATION IS 2800'.

* MATCH EXISTING PAVEMENT LEFT AND RIGHT ±.



DRIVEWAY 23 PROFILE

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

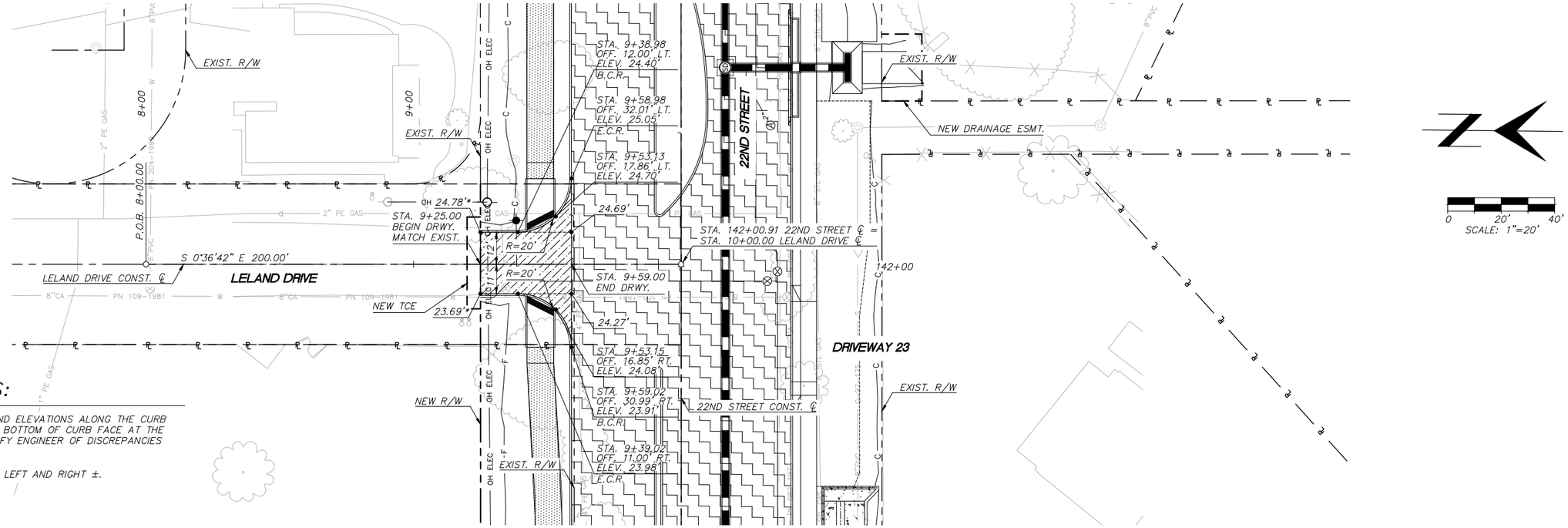
CITY OF TUCSON

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AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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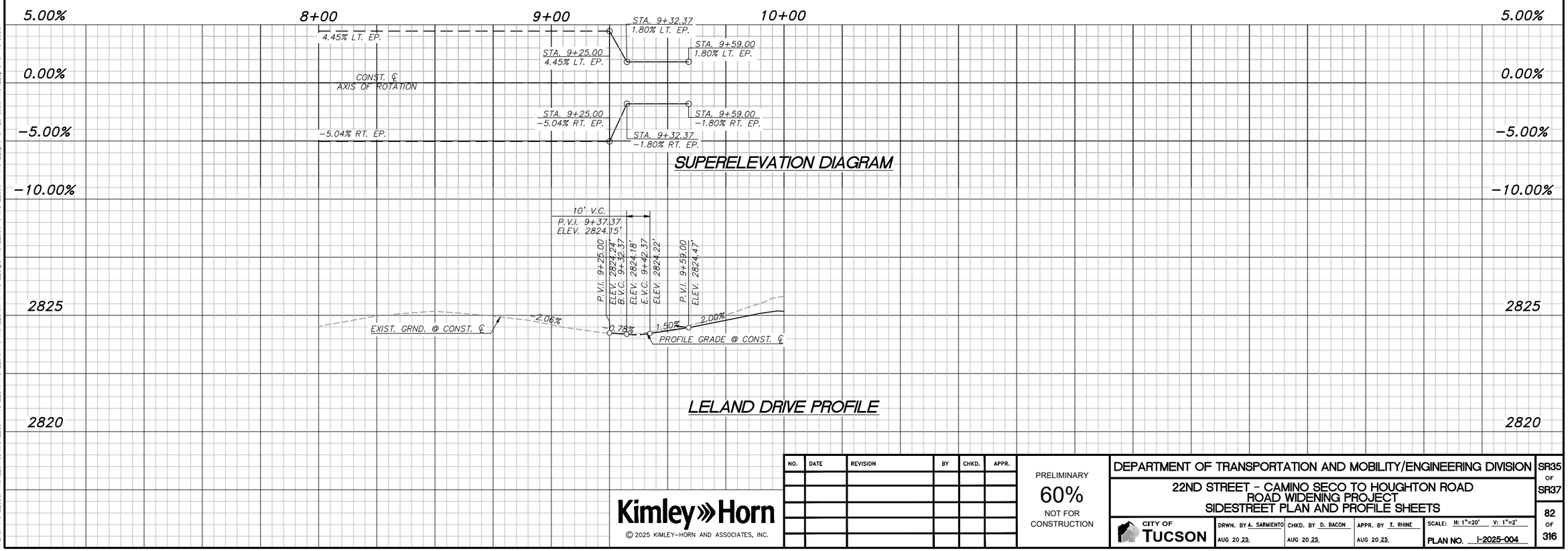
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GENERAL NOTES:

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

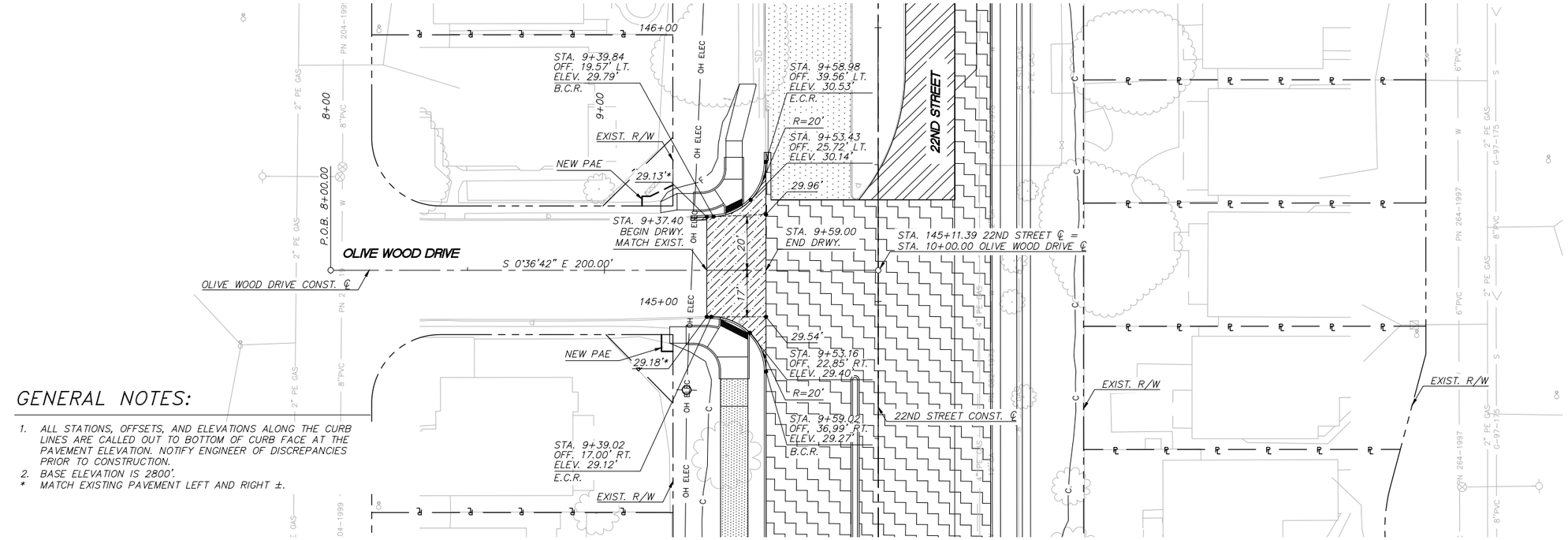
CITY OF TUCSON

DRWN. BY A. SARMIENTO	CHKD. BY D. BACON	APPR. BY T. RHINE	SCALE: H: 1"=20' V: 1"=2'
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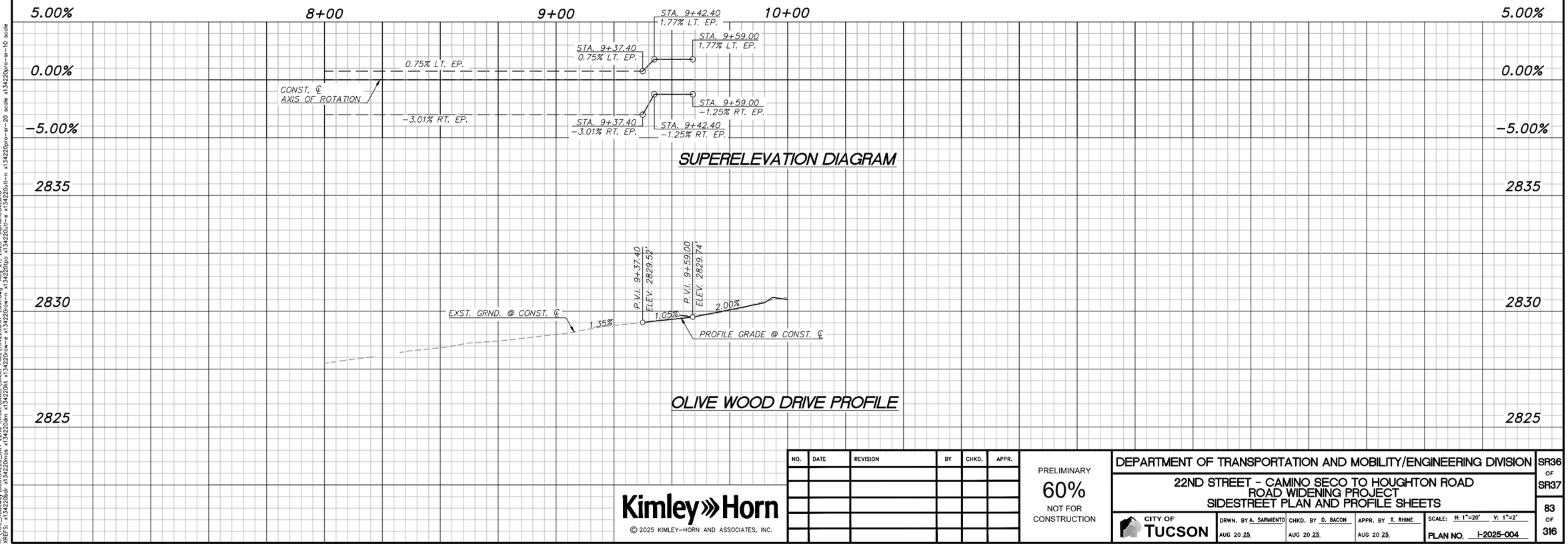
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GENERAL NOTES:

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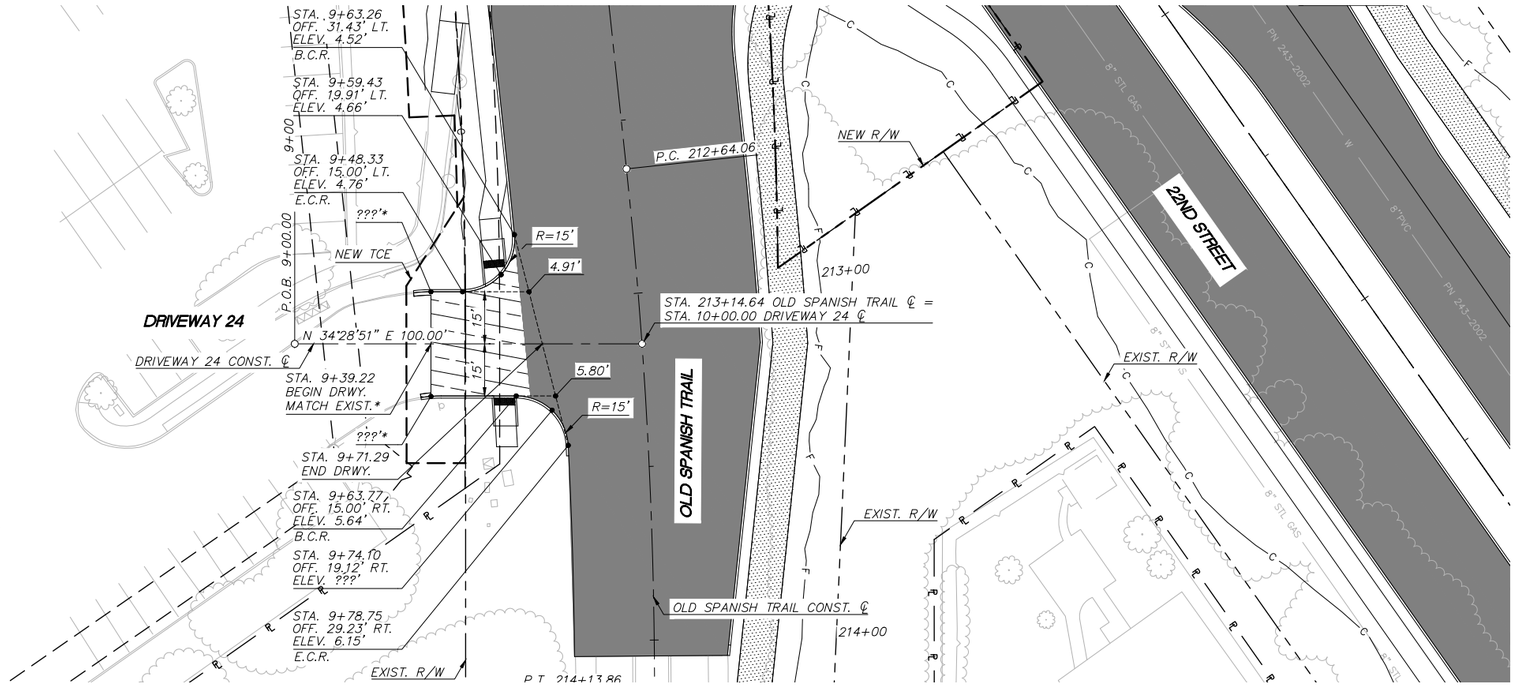
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

DRWN. BY A. SARMIENTO AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

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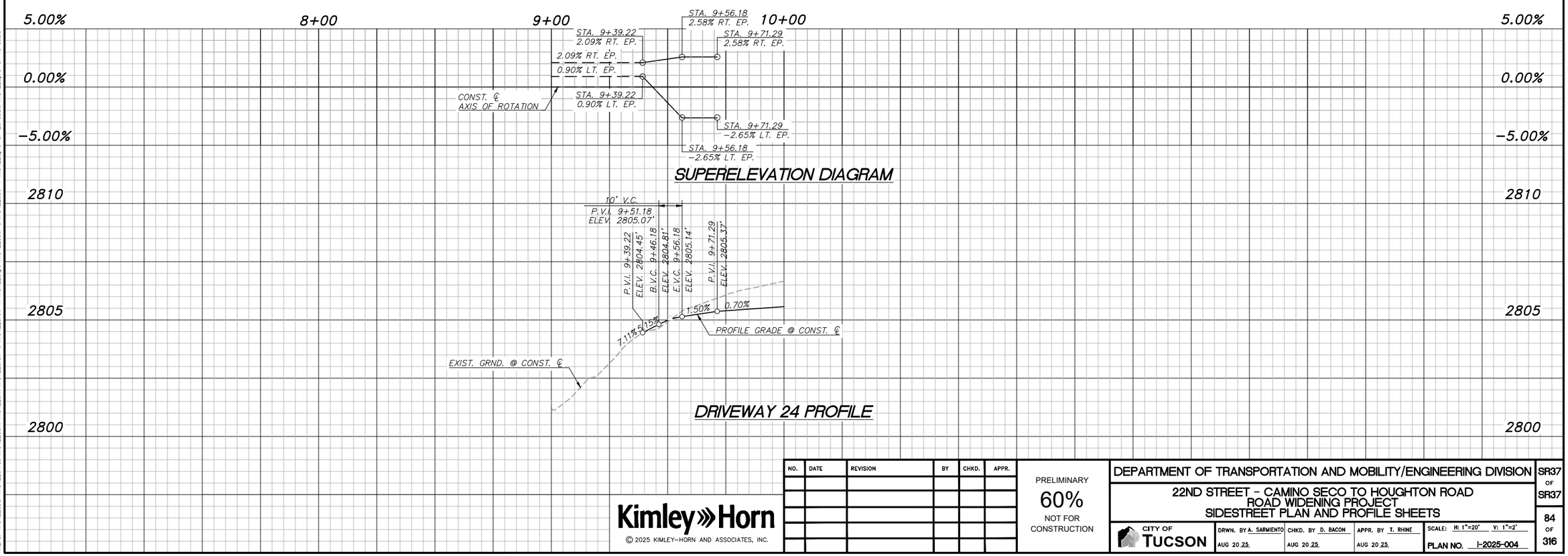
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDESTREET PLAN AND PROFILE SHEETS

CITY OF TUCSON

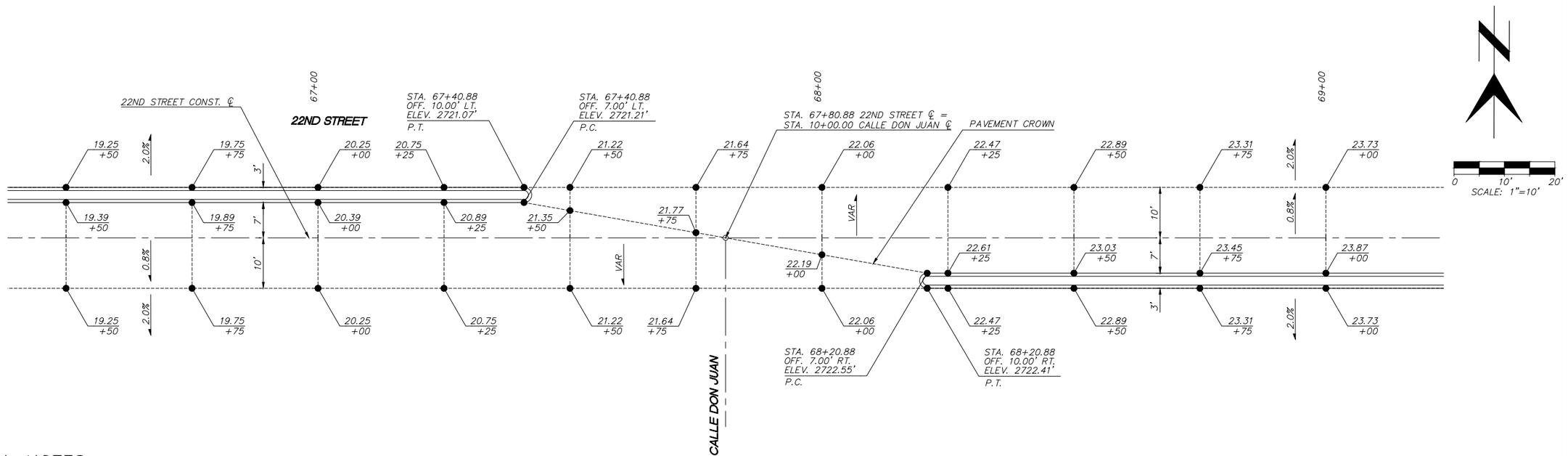
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CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H: 1"=20' V: 1"=2'
PLAN NO. I-2025-004

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GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.
2. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. BASE ELEVATION = 2700 FEET.
4. SEE ROADWAY PLAN AND PROFILE SHEETS FOR SUPERELEVATION DIAGRAMS FOR CROSS SLOPE VARIATIONS.
5. STAKING SPOT ELEVATIONS ARE AT +00, +25, +50, +75, UNLESS OTHERWISE NOTED.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
MEDIAN STAKING PLAN SHEETS

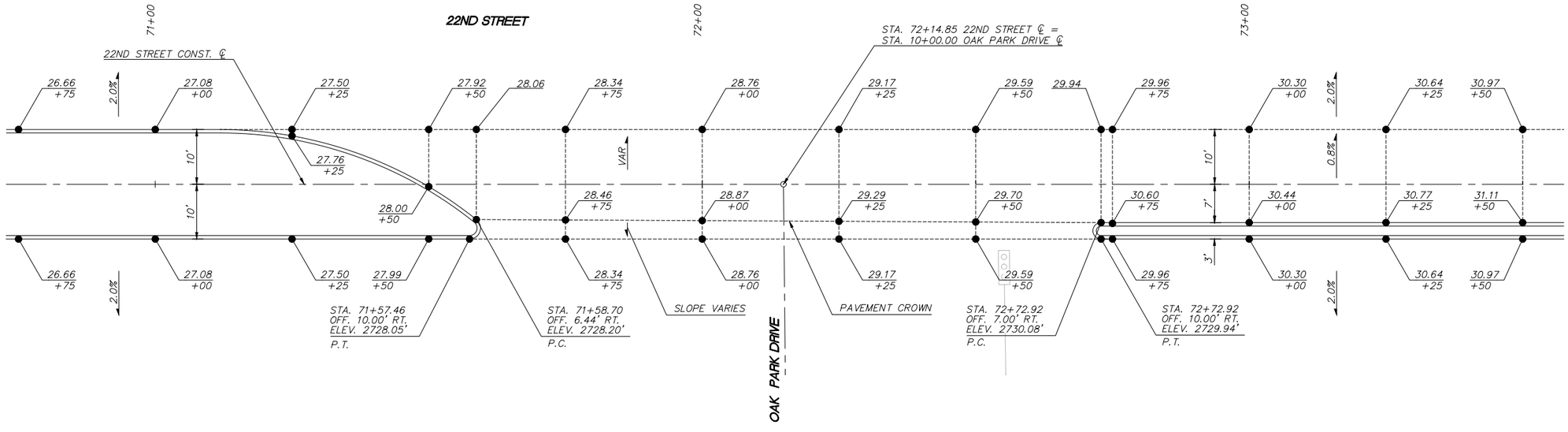
CITY OF TUCSON

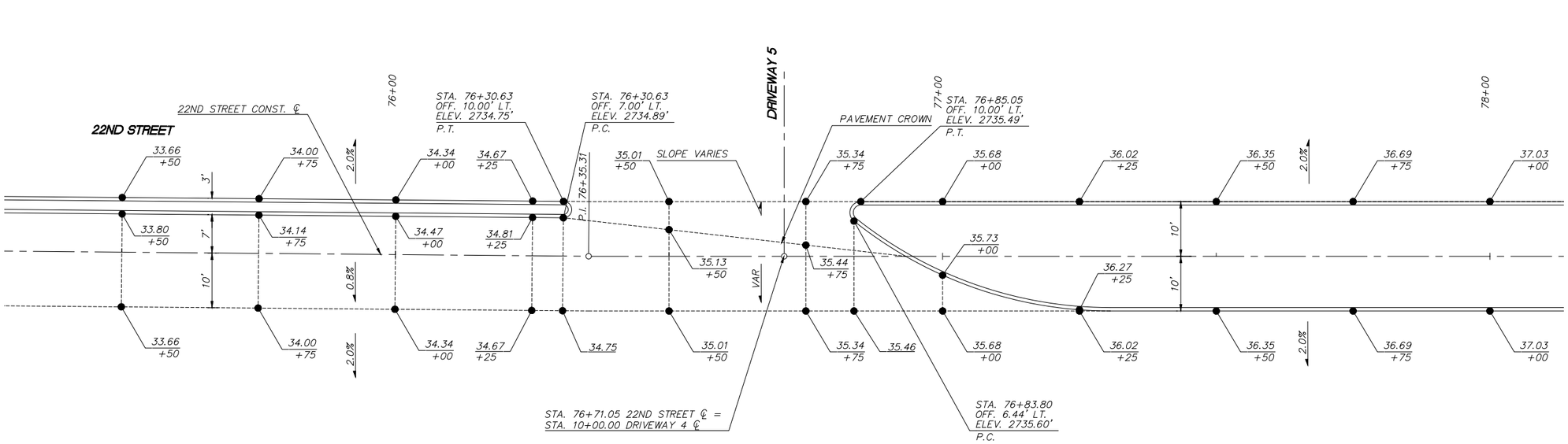
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CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H: 1"=10' V: N/A
PLAN NO. I-2025-004

ST01 OF ST06

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GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.
2. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
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NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
MEDIAN STAKING PLAN SHEETS

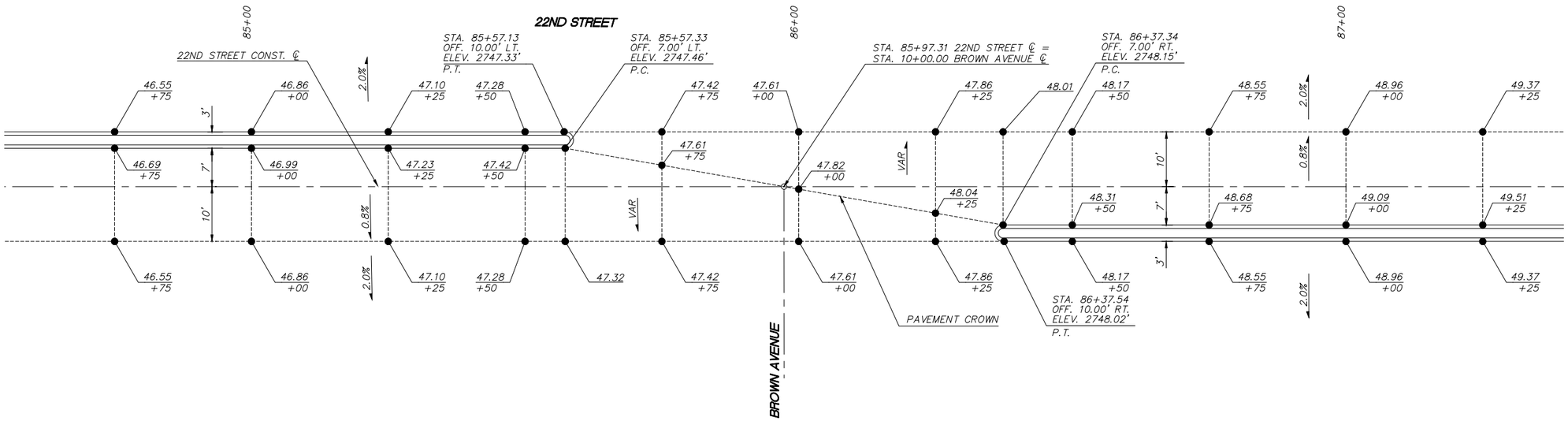
CITY OF TUCSON

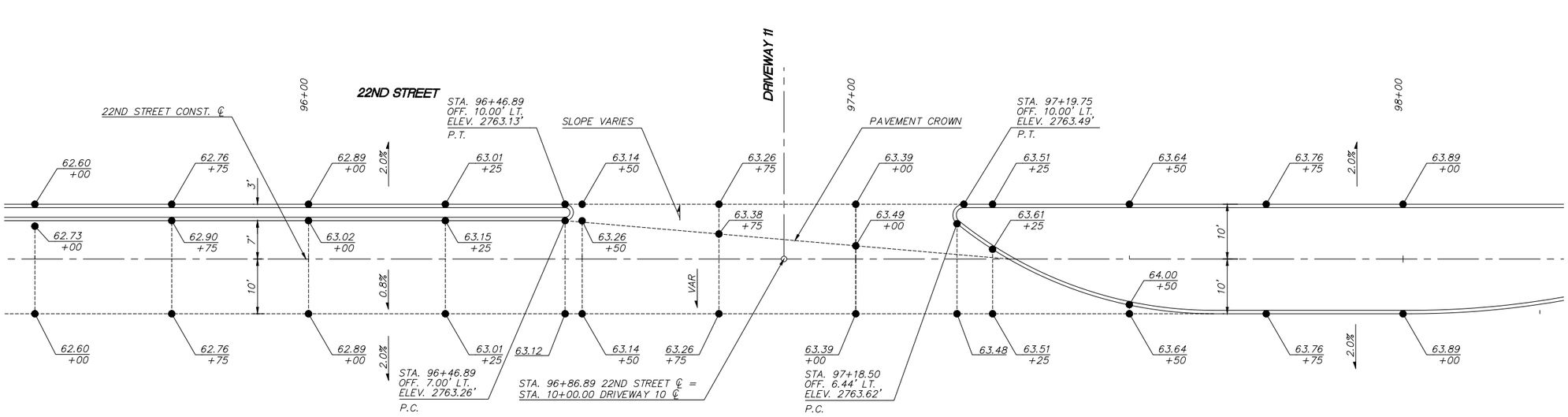
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CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=10' V: N/A
PLAN NO. I-2025-004

ST02 OF ST06

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GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.
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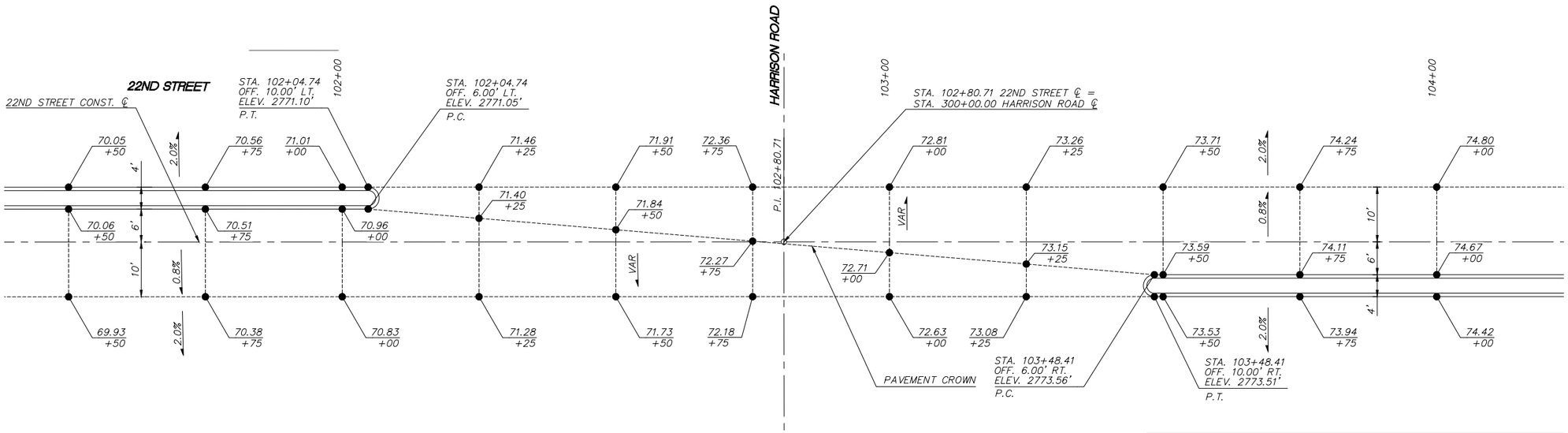
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
MEDIAN STAKING PLAN SHEETS

CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25

SCALE: H: 1"=10' V: N/A
PLAN NO. I-2025-004

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GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.
2. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. BASE ELEVATION = 2700 FEET.
4. SEE ROADWAY PLAN AND PROFILE SHEETS FOR SUPERELEVATION DIAGRAMS FOR CROSS SLOPE VARIATIONS.
5. STAKING SPOT ELEVATIONS ARE AT +00, +25, +50, +75, UNLESS OTHERWISE NOTED.

MEDIAN STAKING PLAN SHEETS

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
MEDIAN STAKING PLAN SHEETS

CITY OF TUCSON

DRWN. BY D. GLENN AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25

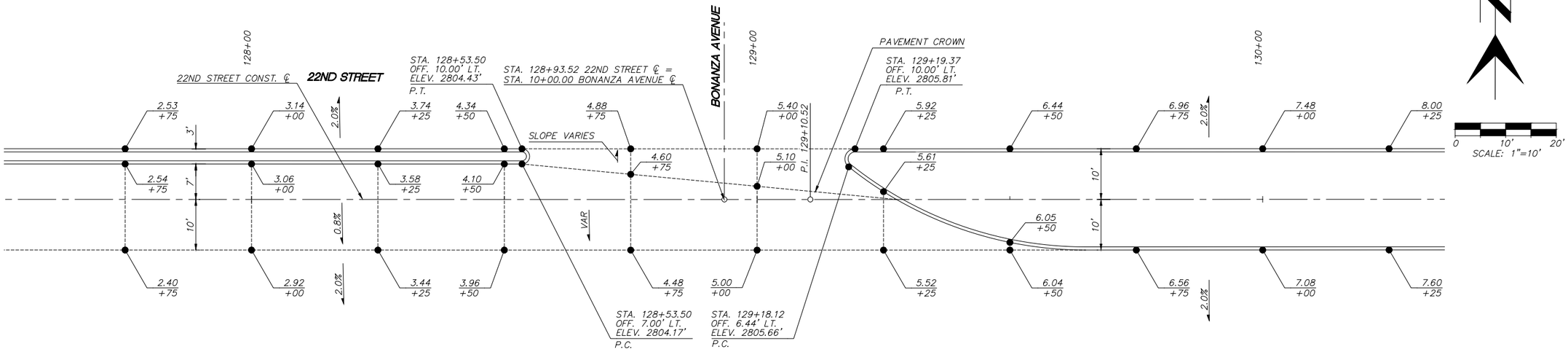
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PLAN NO. I-2025-004

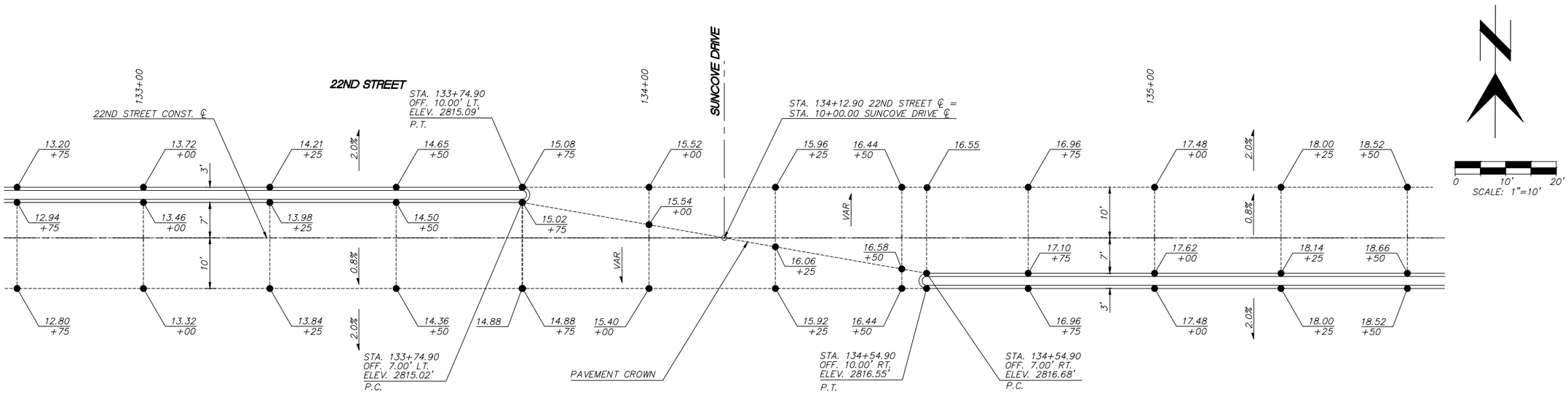
ST04 OF ST06

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GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.
2. ALL STATIONS, OFFSETS, AND ELEVATIONS ALONG THE CURB LINES ARE CALLED OUT TO BOTTOM OF CURB FACE AT THE PAVEMENT ELEVATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. BASE ELEVATION = 2800 FEET.
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5. STAKING SPOT ELEVATIONS ARE AT +00, +25, +50, +75, UNLESS OTHERWISE NOTED.

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
MEDIAN STAKING PLAN SHEETS

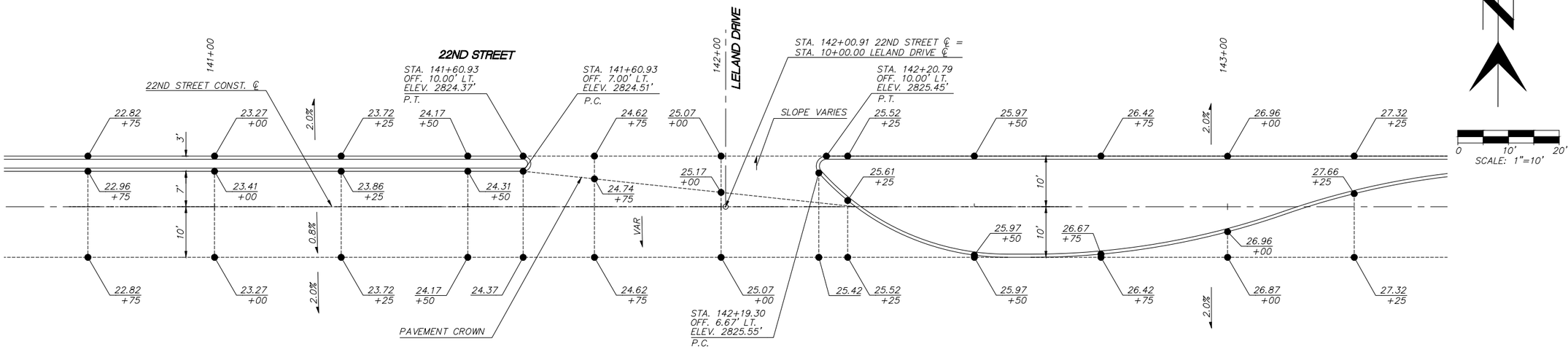
CITY OF TUCSON

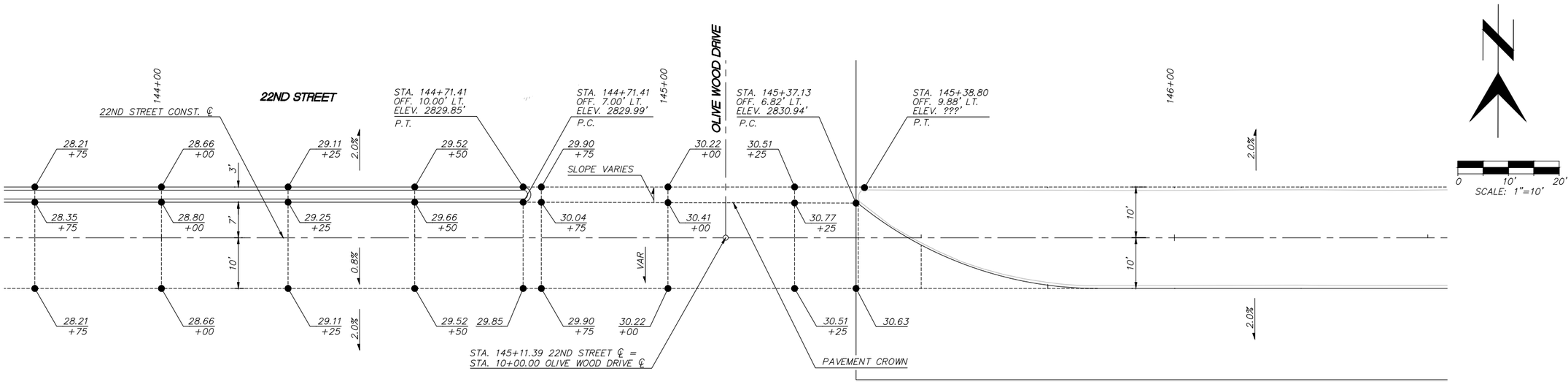
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CHKD. BY D. BACON AUG 20 25
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PLAN NO. I-2025-004

ST05 OF ST06

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GENERAL NOTES:

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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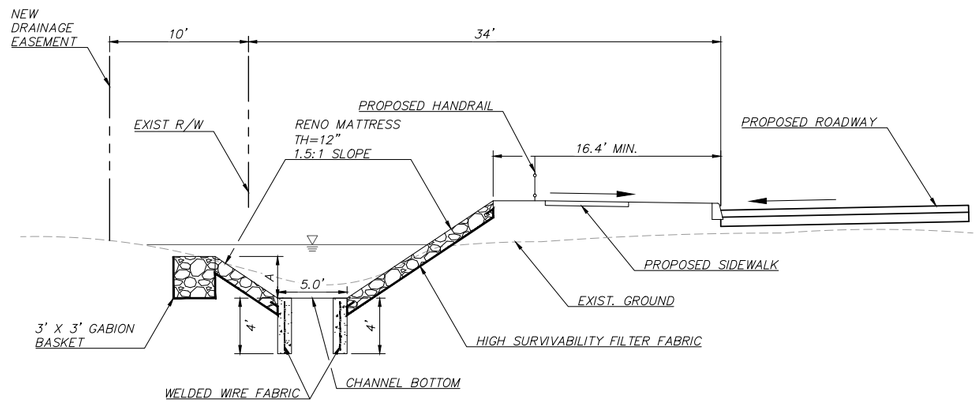
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
MEDIAN STAKING PLAN SHEETS

CITY OF TUCSON

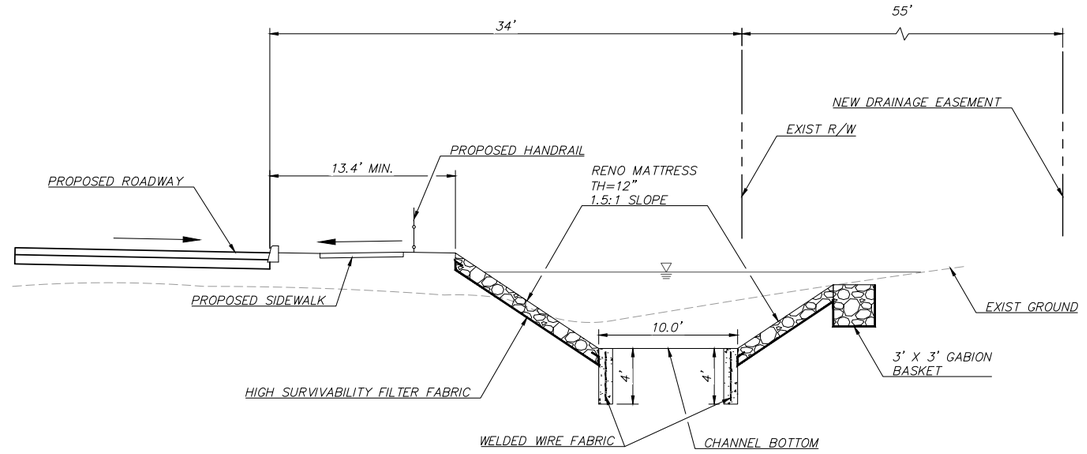
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AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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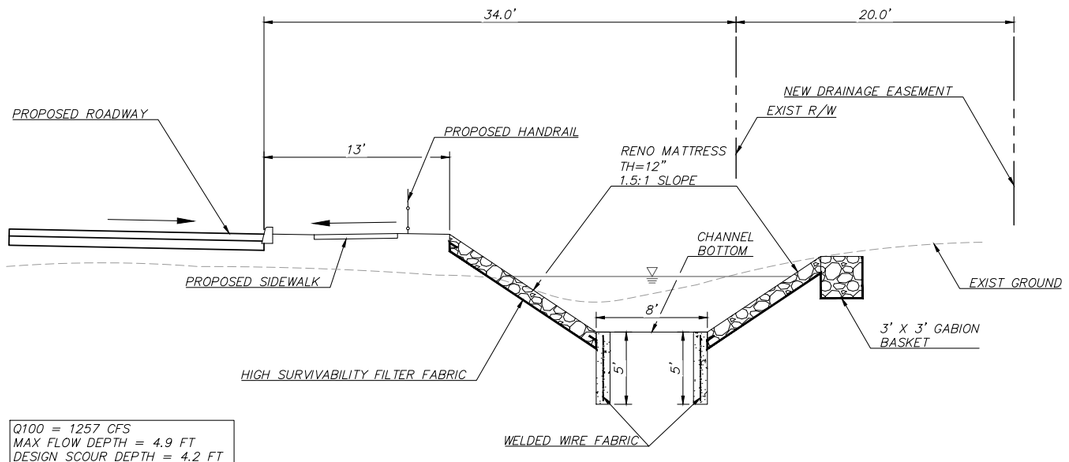
Q100 = 700 CFS
MAX FLOW DEPTH = 3.8 FT
DESIGN SCOUR DEPTH = 3 FT
CHANNEL WIDTH = 5 FT

WASH ORDINANCE CHANNEL
STA 90+57 TO 95+25



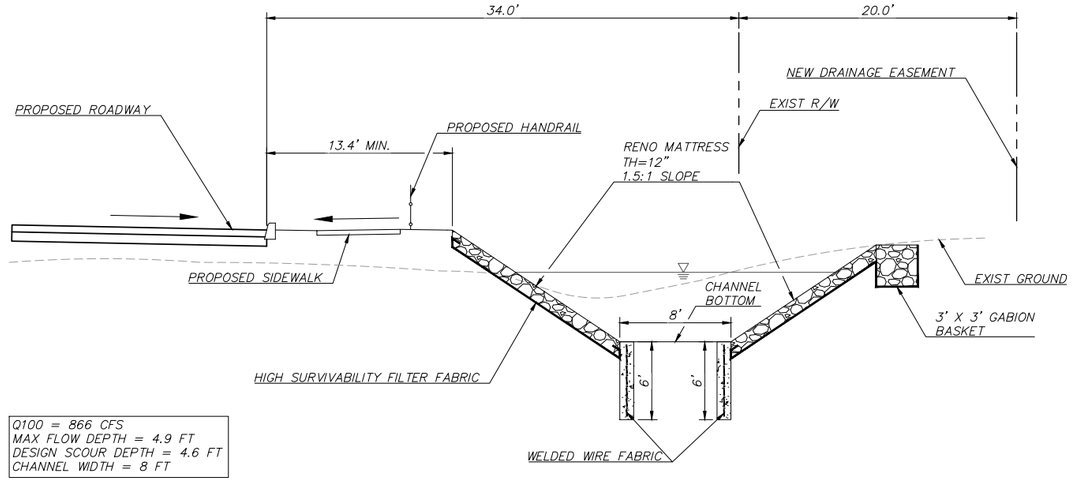
Q100 = 925 CFS
MAX FLOW DEPTH = 5.4 FT
DESIGN SCOUR DEPTH = 3 FT
CHANNEL WIDTH = 10 FT

WASH ORDINANCE CHANNEL
STA 94+65 TO 99+12



Q100 = 1257 CFS
MAX FLOW DEPTH = 4.9 FT
DESIGN SCOUR DEPTH = 4.2 FT
CHANNEL WIDTH = 8 FT

WASH ORDINANCE CHANNEL
STA 120+49 TO 124+02



Q100 = 866 CFS
MAX FLOW DEPTH = 4.9 FT
DESIGN SCOUR DEPTH = 4.6 FT
CHANNEL WIDTH = 8 FT

WASH ORDINANCE CHANNEL
STA 124+02 TO 127+57

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DRAINAGE DETAILS

CITY OF TUCSON

DRWN. BY R. BESEKE AUG 20 25
CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25

SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

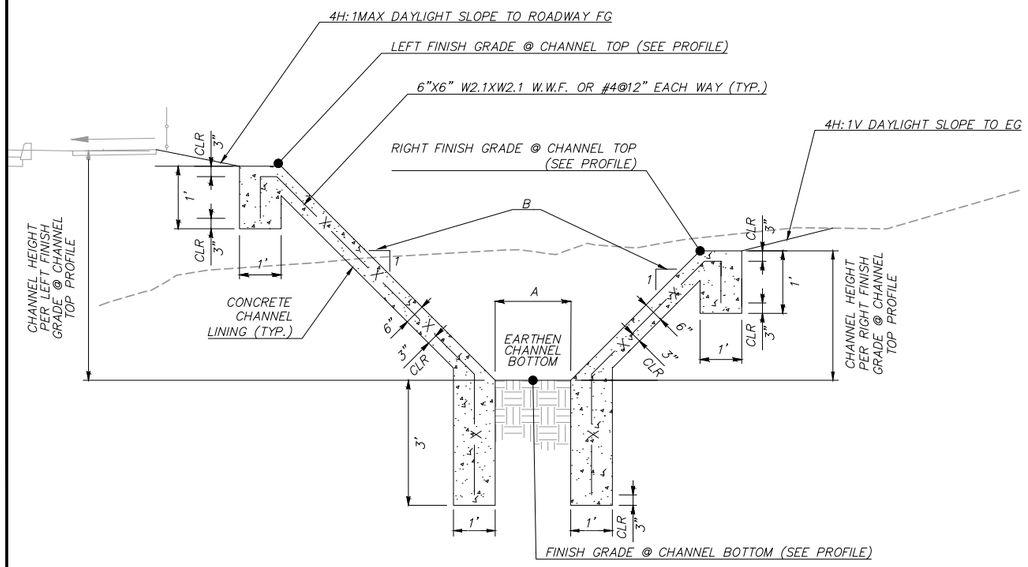
DR01 OF DR18

91 OF 316

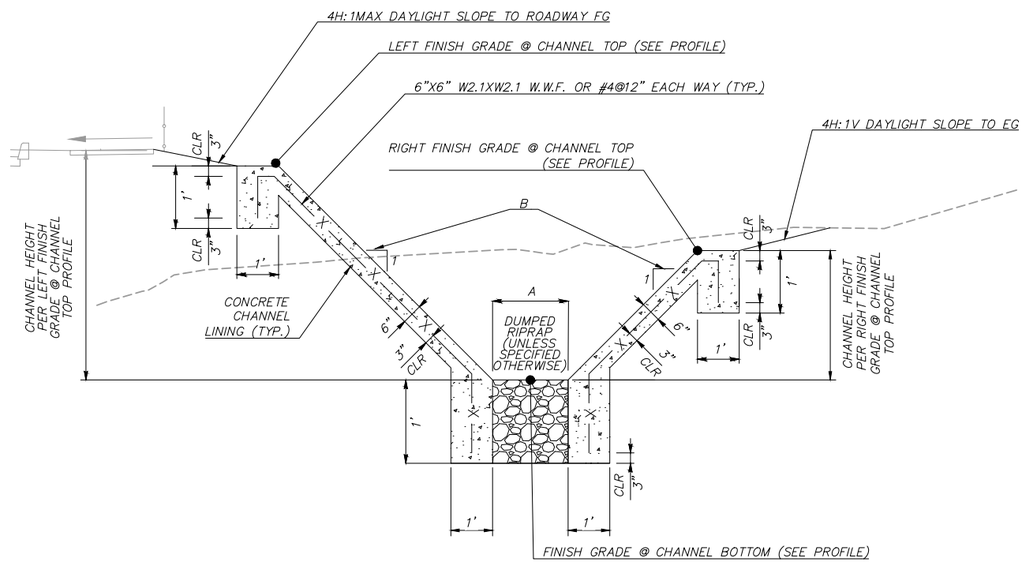
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TYPICAL SECTION – CONCRETE CHANNEL (EARTHEN BOTTOM)



TYPICAL SECTION – CONCRETE CHANNEL (RIPRAP BOTTOM)

	CHANNEL DESIGN SUMMARY TABLE						
CHANNEL I.D.	START STA.	STOP STA.	TYPICAL SECTION	START STA. OFF. @ CHANNEL BOTTOM	STOP STA. OFF. @ CHANNEL BOTTOM	A	B
CH-1	52+09.98	55+02.89	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
	55+02.89	55+41.39	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
	55+41.39	59+06.24	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
	59+06.24	59+44.74	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
	59+44.74	61+94.29	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
	61+94.29	62+20.29	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
CH-2	62+82.29	63+43.59	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
	63+43.59	63+82.09	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
	63+82.09	67+22.10	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
	67+22.10	67+46.10	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
CH-3	68+16.10	69+20.13	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
	69+20.13	69+50.13	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
CH-4	74+23.24	74+69.04	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
	74+69.04	76+05.39	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
	76+05.39	76+29.40	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
CH-5	76+58.83	77+09.44	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
	77+09.44	77+33.44	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
CH-6	78+11.42	78+66.49	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	3'	1
	78+66.49	79+43.80	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	3'	1
CH-7	84+73.02	85+52.74	CONCRETE CHANNEL (WIRE-TIED RIPRAP BOTTOM)	64.31'RT	64.31'RT	8'	1
CH-8	86+42.00	88+38.15	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	8'	1
	88+38.15	88+72.15	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	8'	1
CH-9	89+45.42	89+70.44	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	8'	1
CH-10	91+05.08	91+49.03	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	8'	1
	91+49.03	91+84.03	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	8'	1
CH-11	92+64.32	93+49.94	CONCRETE CHANNEL (EARTHEN BOTTOM)	64.31'RT	64.31'RT	8'	1
	93+49.94	93+77.94	CONCRETE CHANNEL (RIPRAP BOTTOM)	64.31'RT	64.31'RT	8'	1

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NO.	DATE	REVISION	BY	CHKD.	APPR.

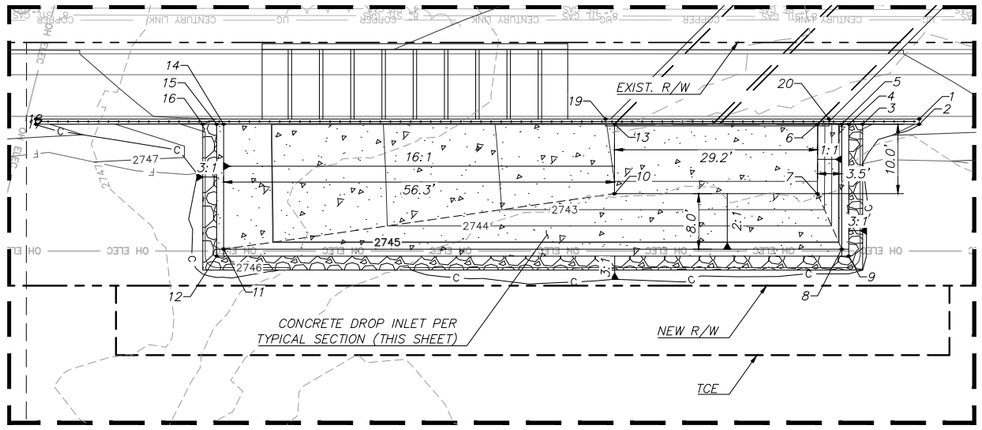
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

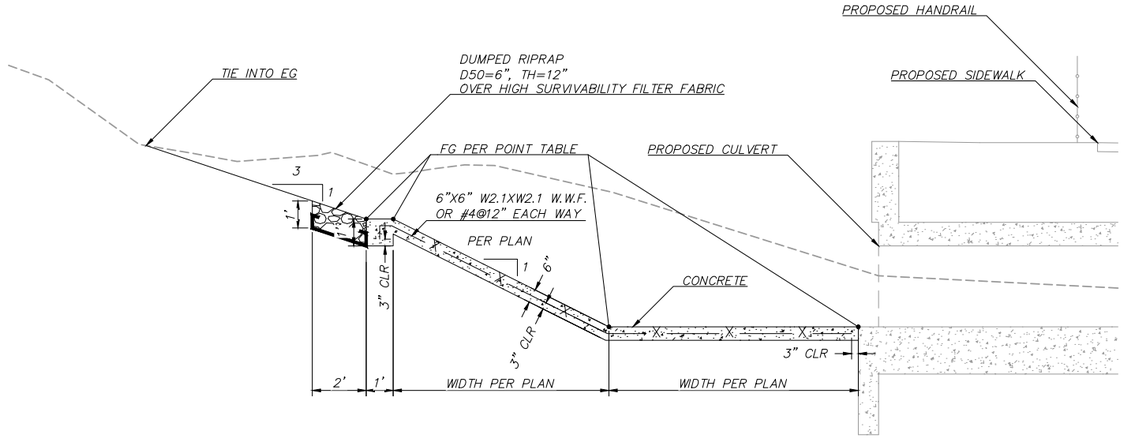
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DRAINAGE DETAILS

CITY OF TUCSON

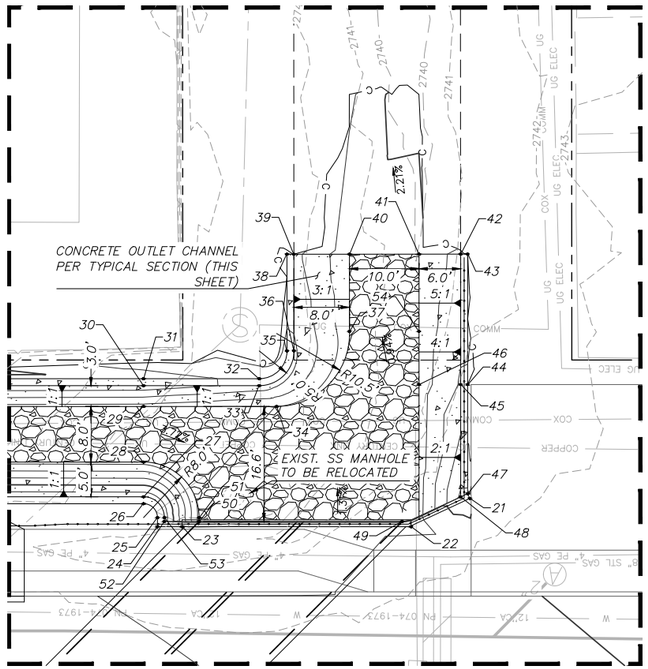
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CHKD. BY A. VALENZUELA AUG 20 25
APPR. BY K. PAYNE AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004



RW–A INLET GRADING DETAIL



TYPICAL SECTION – CONCRETE DROP INLET (NTS)

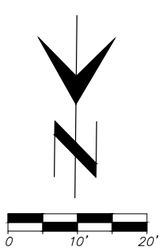


RW–A OUTLET GRADING DETAIL

NOTE:

1. SEE GRADING POINT TABLE (SHEET DR04) FOR GRADING DETAIL FG ELEVATIONS.

TYPICAL SECTION – CONCRETE OUTLET CHANNEL



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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DRAINAGE DETAILS

CITY OF TUCSON

DRWN. BY A. VALENZUELA AUG 20 25
CHKD. BY A. VALENZUELA AUG 20 25
APPR. BY K. PAYNE AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

DR03 OF DR18

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GRADING POINT TABLE			
POINT #	STATION (22ND ST. CONST. ℄)	OFFSET (22ND ST. CONST. ℄)	FG ELEVATION
1	85+24.65	−51.00'	2747.12'
2	85+24.65	−51.75'	2747.11'
3	85+32.79	−51.75'	2746.14'
4	85+34.79	−51.75'	2745.90'
5	85+35.79	−51.75'	2745.63'
6	85+39.29	−51.75'	2741.93'
7	85+39.29	−61.75'	2742.02'
8	85+35.79	−69.75'	2745.43'
9	85+34.79	−70.75'	2745.45'
10	85+68.52	−61.75'	2742.02'
11	86+24.79	−69.75'	2745.43'
12	86+25.79	−70.75'	2745.45'
13	85+68.52	−51.75'	2741.93'
14	86+24.79	−51.75'	2745.43'
15	86+25.79	−51.75'	2745.45'
16	86+27.79	−51.75'	2745.66'
17	86+51.81	−51.75'	2748.21'
18	86+51.81	−51.00'	2748.23'
19	85+69.82	−51.00'	2747.51'
20	85+37.64	−51.00'	2747.23'
21	84+26.04	55.08'	2744.12'
22	84+34.50	51.00'	2746.53'
23	84+67.46	51.00'	2746.53'
24	84+71.02	51.00'	2746.53'
25	84+71.02	52.31'	2746.57'
26	84+73.02	54.31'	2746.68'
27	84+73.02	55.31'	2746.66'
28	84+73.02	60.31'	2741.66'
29	84+73.02	68.31'	2741.66'
30	84+73.02	71.31'	2744.66'
31	84+73.02	72.31'	2744.68'
32	84+56.36	72.31'	2743.61'
33	84+56.36	71.31'	2743.64'
34	84+53.86	68.31'	2740.99'
35	84+52.36	76.32'	2743.21'
36	84+51.36	76.32'	2743.15'
37	84+43.36	79.11'	2740.41'
38	84+52.37	90.23'	2742.32'
39	84+51.37	90.23'	2742.30'
40	84+43.37	90.24'	2740.30'
41	84+33.36	90.24'	2740.30'
42	84+27.36	90.25'	2741.33'
43	84+26.36	90.25'	2741.35'
44	84+26.36	71.47'	2742.12'
45	84+27.36	71.47'	2742.10'
46	84+33.36	71.47'	2740.48'
47	84+26.36	55.76'	2744.11'
48	84+27.36	55.29'	2744.15'
49	84+35.79	51.75'	2740.70'
50	84+65.02	51.75'	2740.70'
51	84+65.02	52.31'	2740.74'
52	84+70.02	51.75'	2746.52'
53	84+70.02	52.31'	2746.54'
54	84+33.36	79.12'	2740.41'

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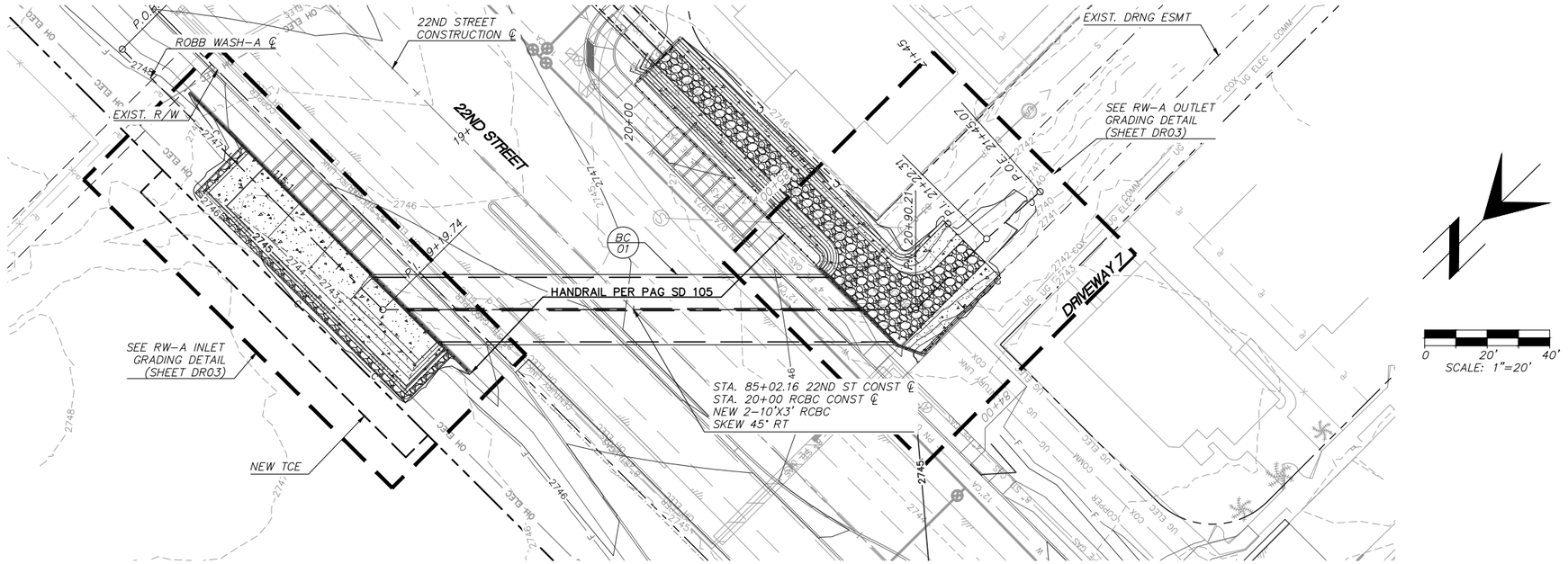
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

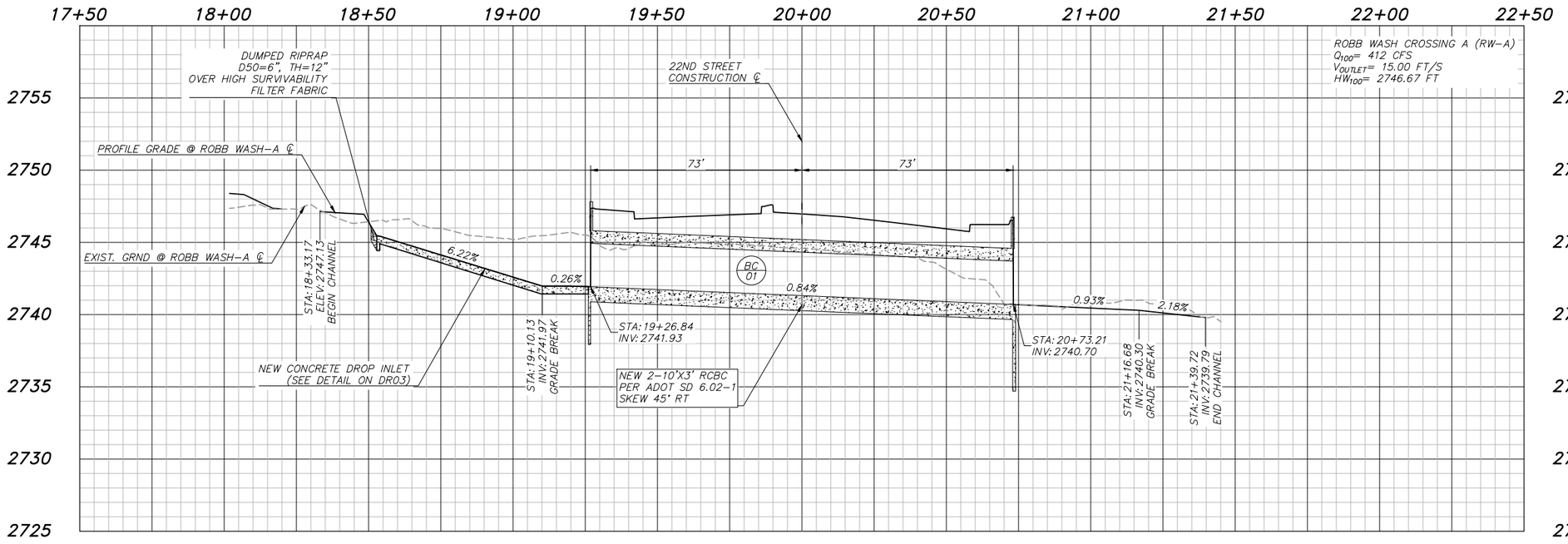
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
DRAINAGE DETAILS

CITY OF TUCSON

DRWN. BY A. VALENZUELA AUG 20 25
CHKD. BY A. VALENZUELA AUG 20 25
APPR. BY K. PAYNE AUG 20 25

SCALE: H: N/A V: N/A
PLAN NO. I-2025-004





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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
CROSS CULVERT PLAN AND PROFILE

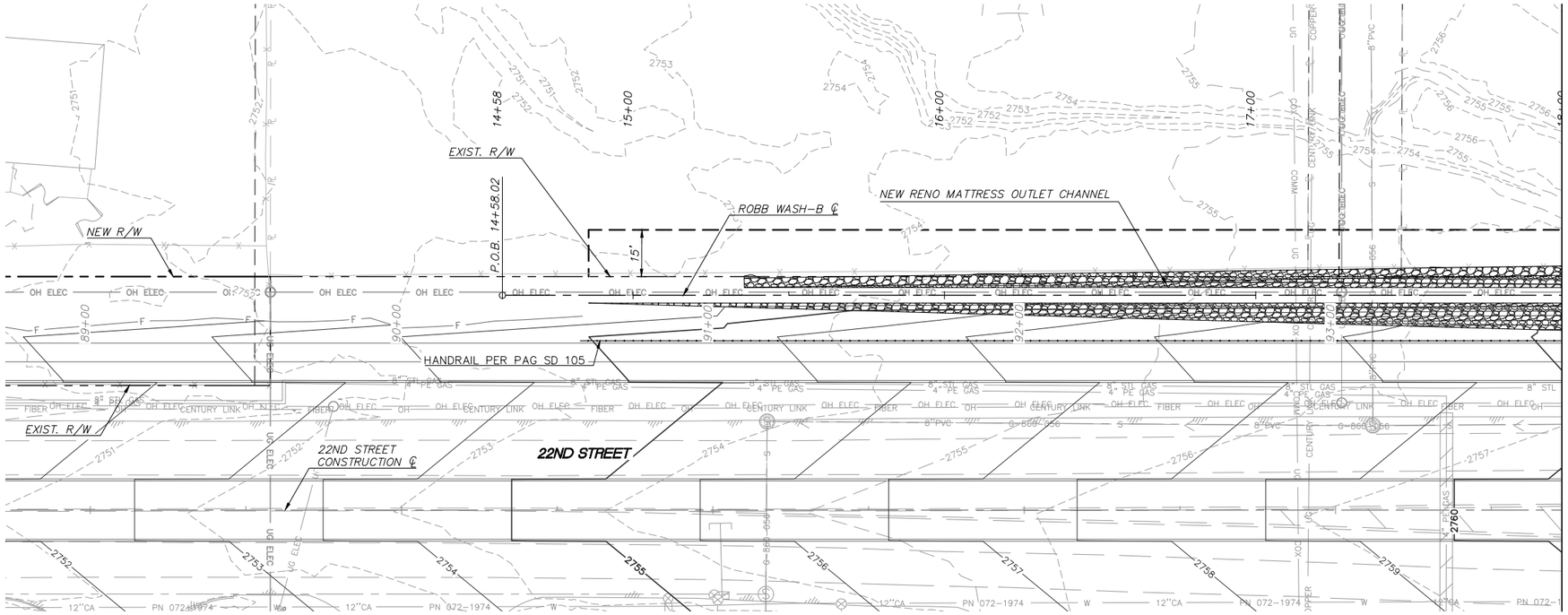
CITY OF TUCSON

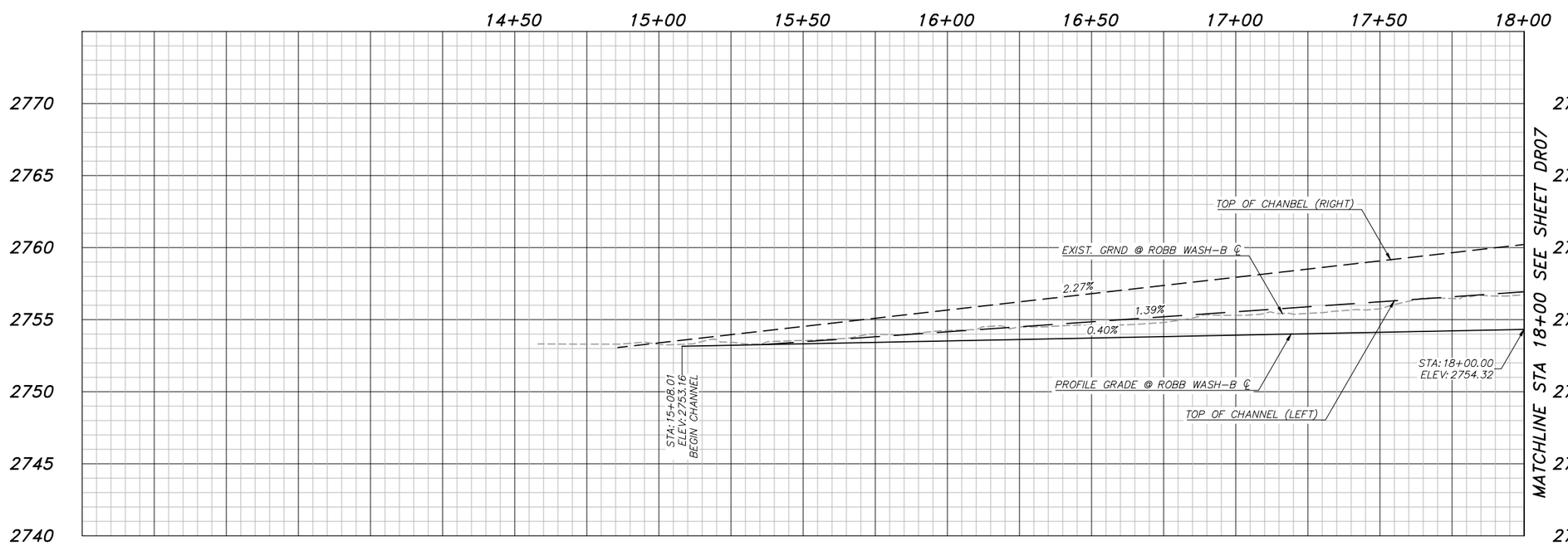
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AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

DR05 OF DR18

95 OF 316

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NO.	DATE	REVISION	BY	CHKD.	APPR.

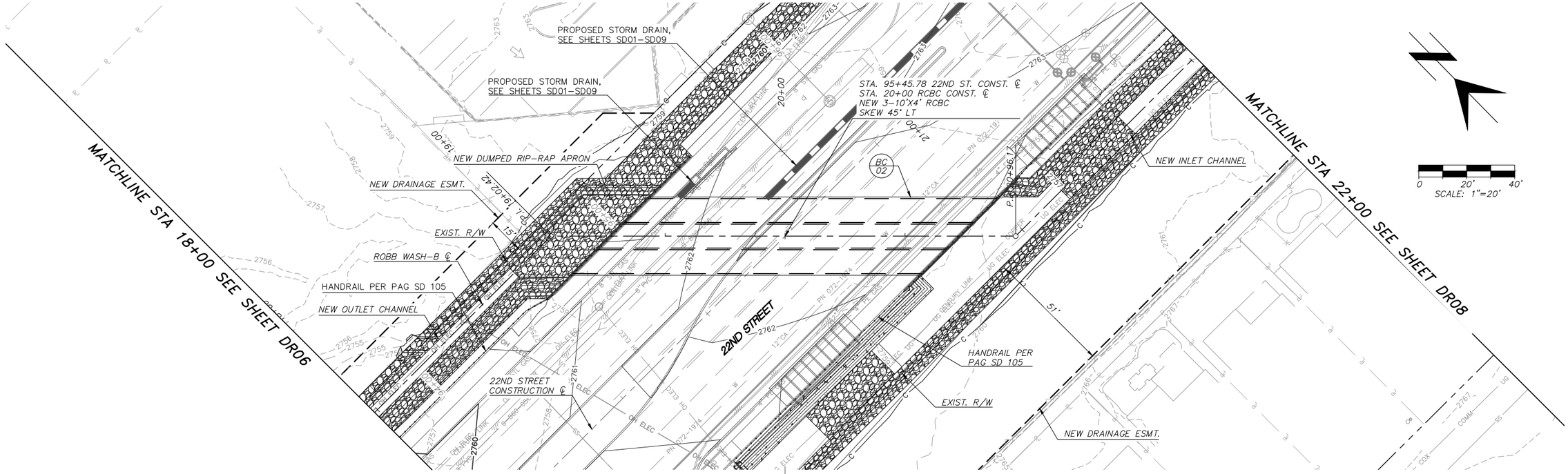
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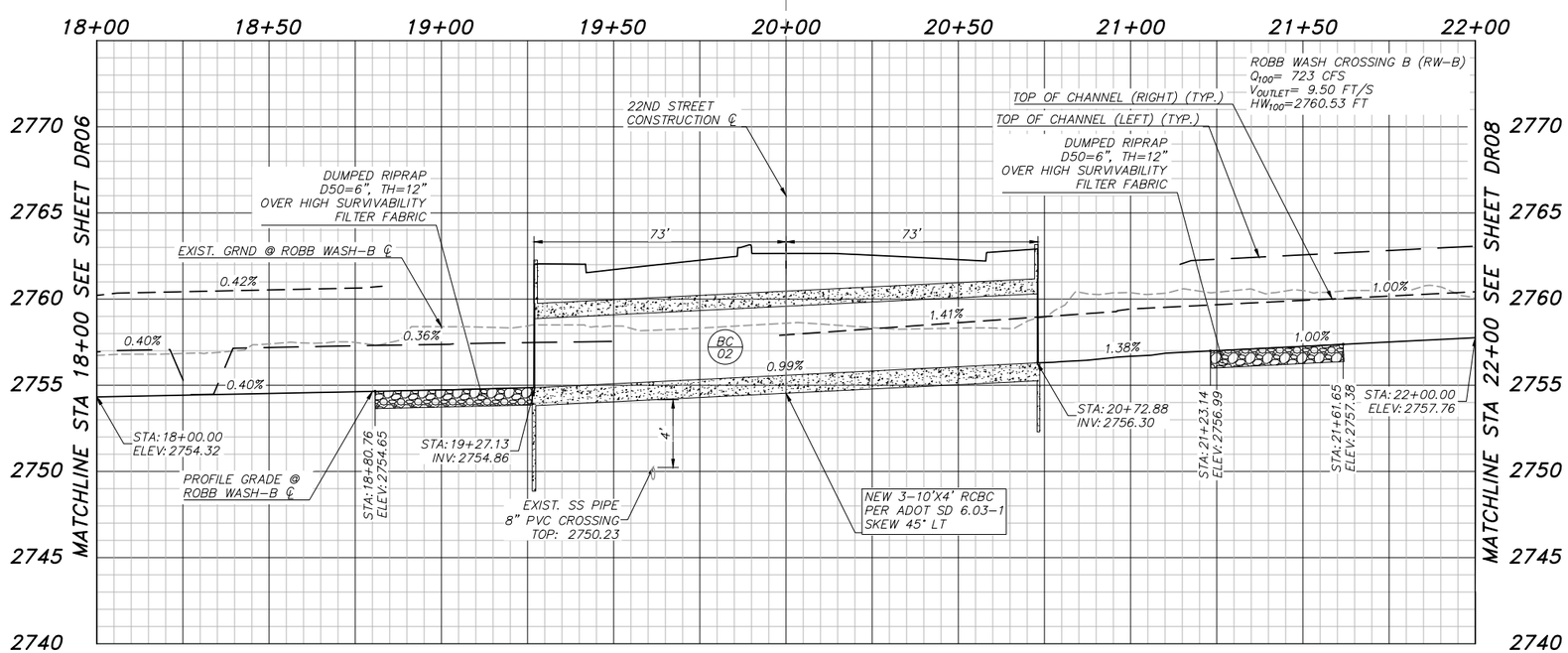
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
CROSS CULVERT PLAN AND PROFILE

CITY OF TUCSON

DRWN. BY A. VALENZUELA	CHKD. BY A. VALENZUELA	APPR. BY K. PAYNE	SCALE: H: 1"=20' V: 1"=4'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004





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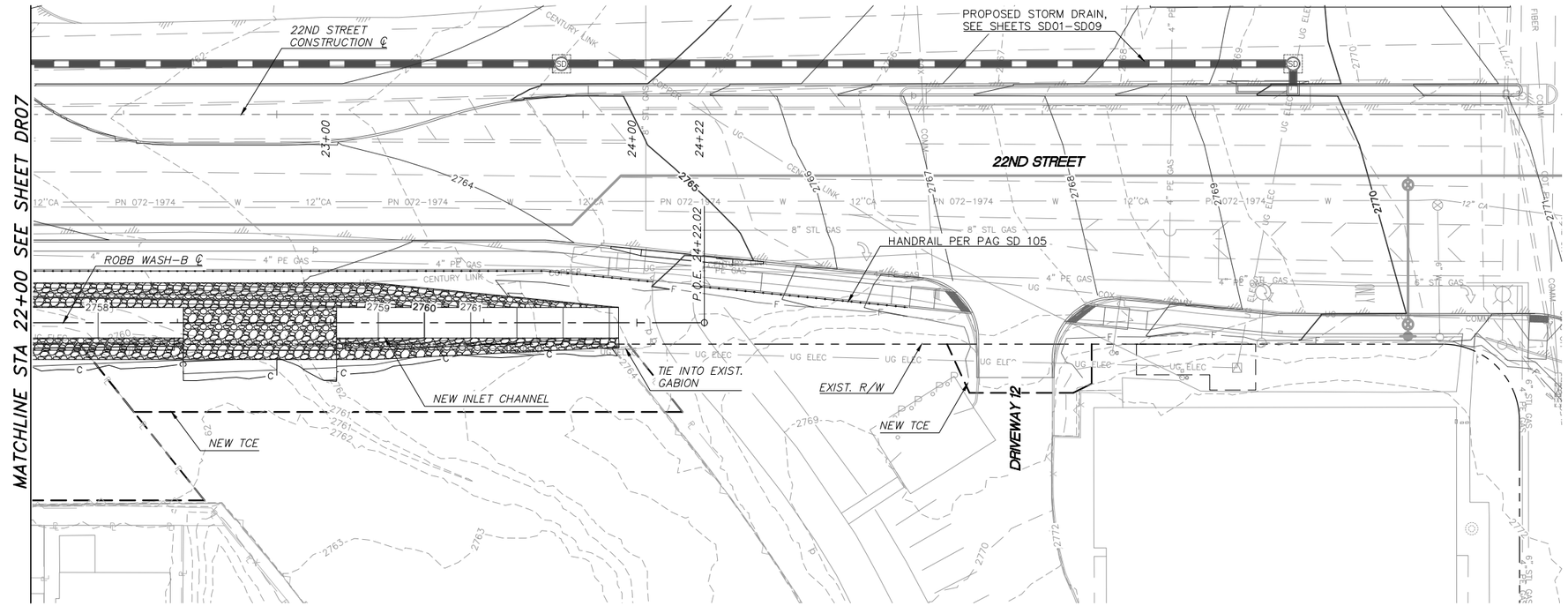
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

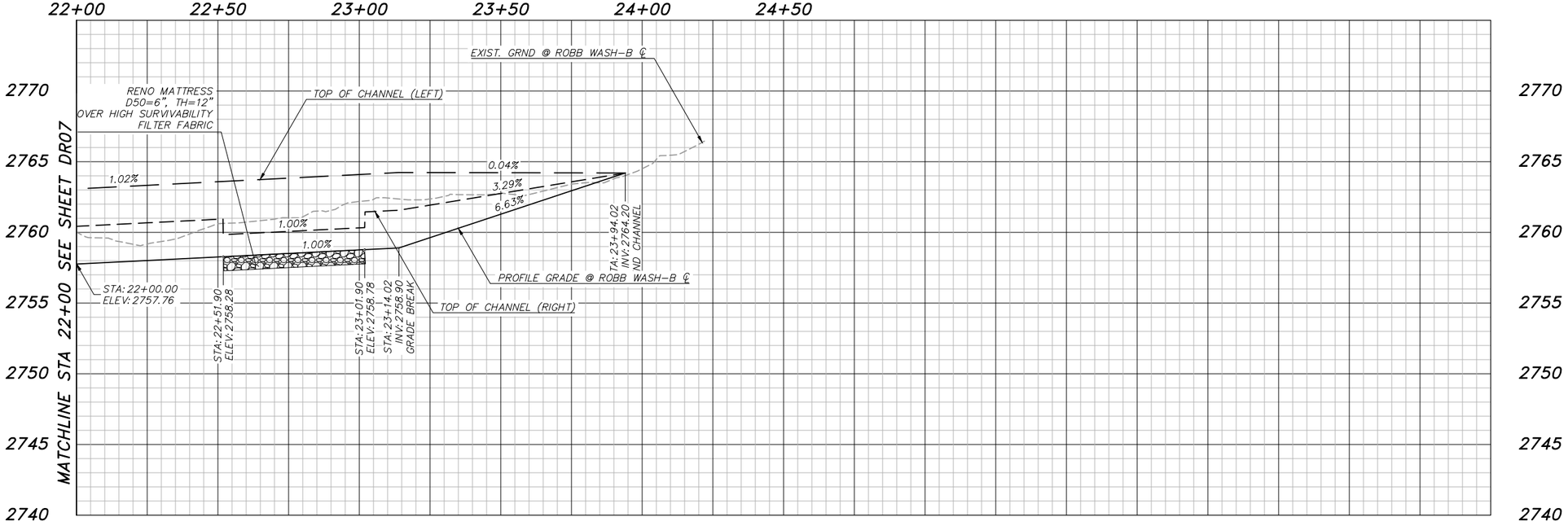
22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
CROSS CULVERT PLAN AND PROFILE

CITY OF TUCSON

DRWN. BY A. VALENZUELA	CHKD. BY A. VALENZUELA	APPR. BY K. PAYNE	SCALE: H: 1"=20' V: 1"=4'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004



0 20' 40'
SCALE: 1"=20'



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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
CROSS CULVERT PLAN AND PROFILE

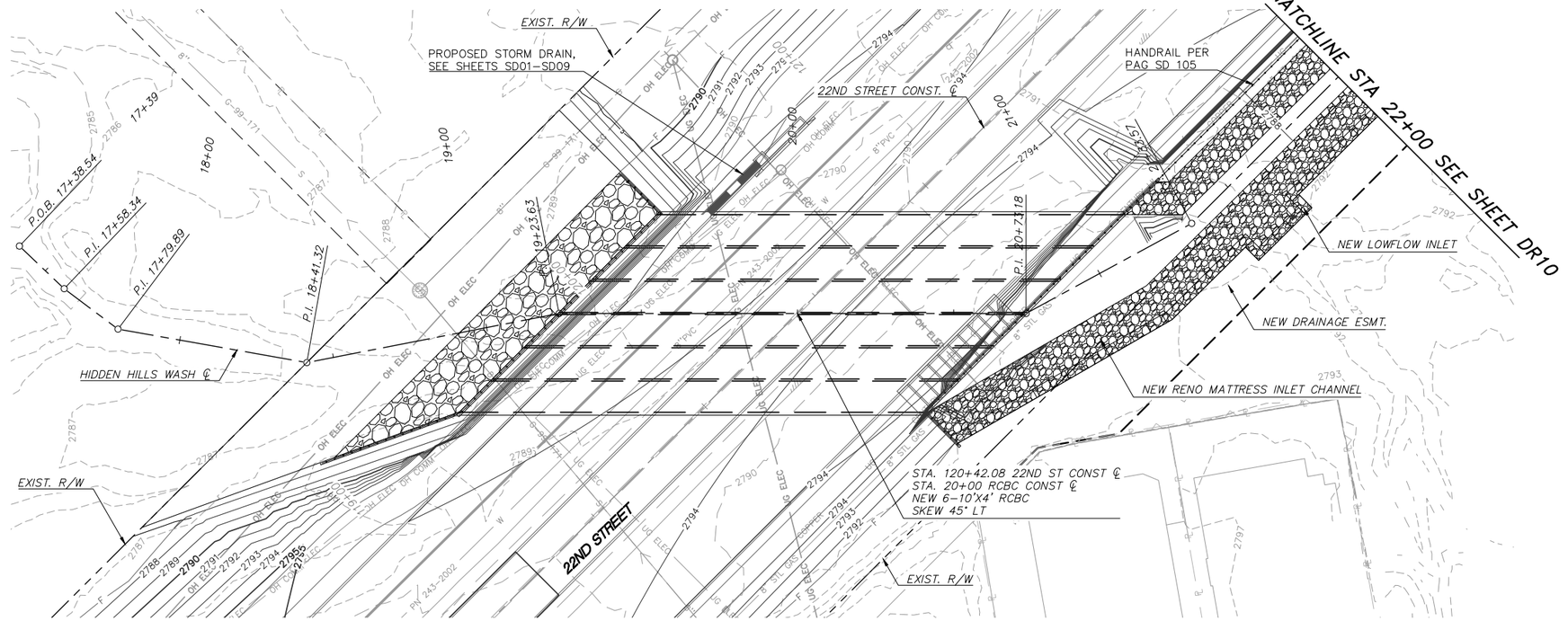
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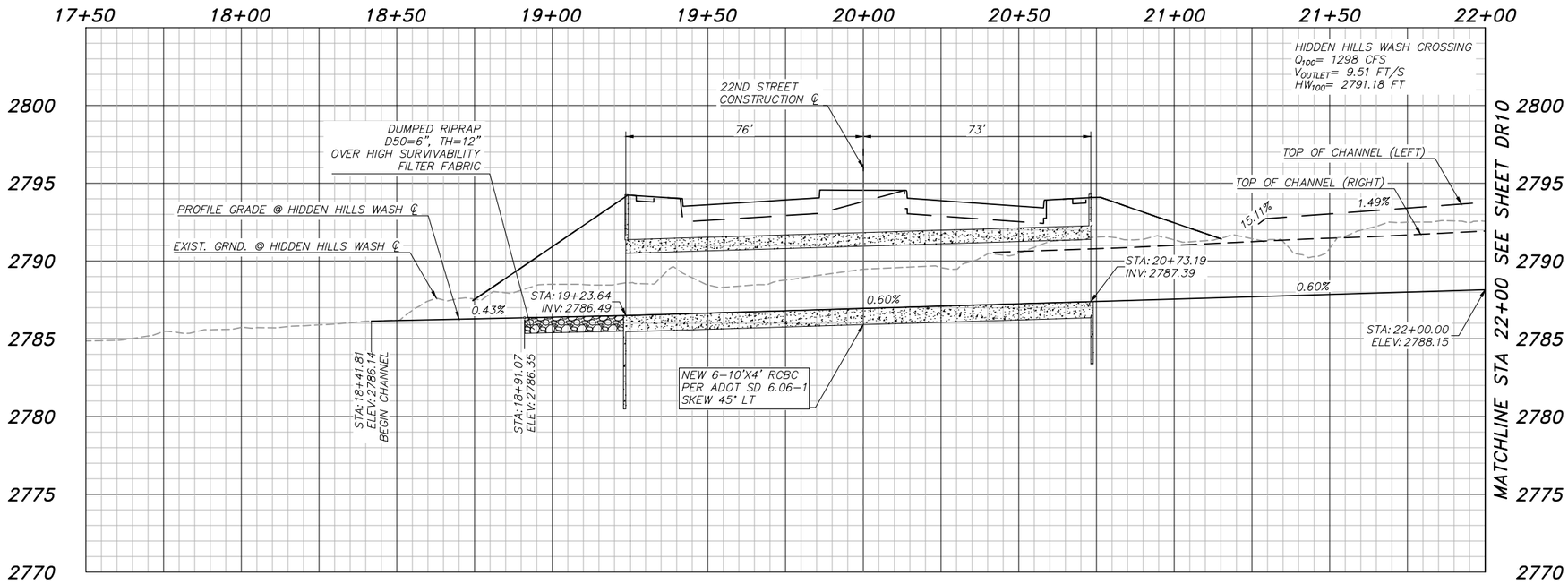
DRWN. BY A. VALENZUELA	CHKD. BY A. VALENZUELA	APPR. BY K. PAYNE	SCALE: H: 1"=20' V: 1"=4'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

DR08 OF DR18

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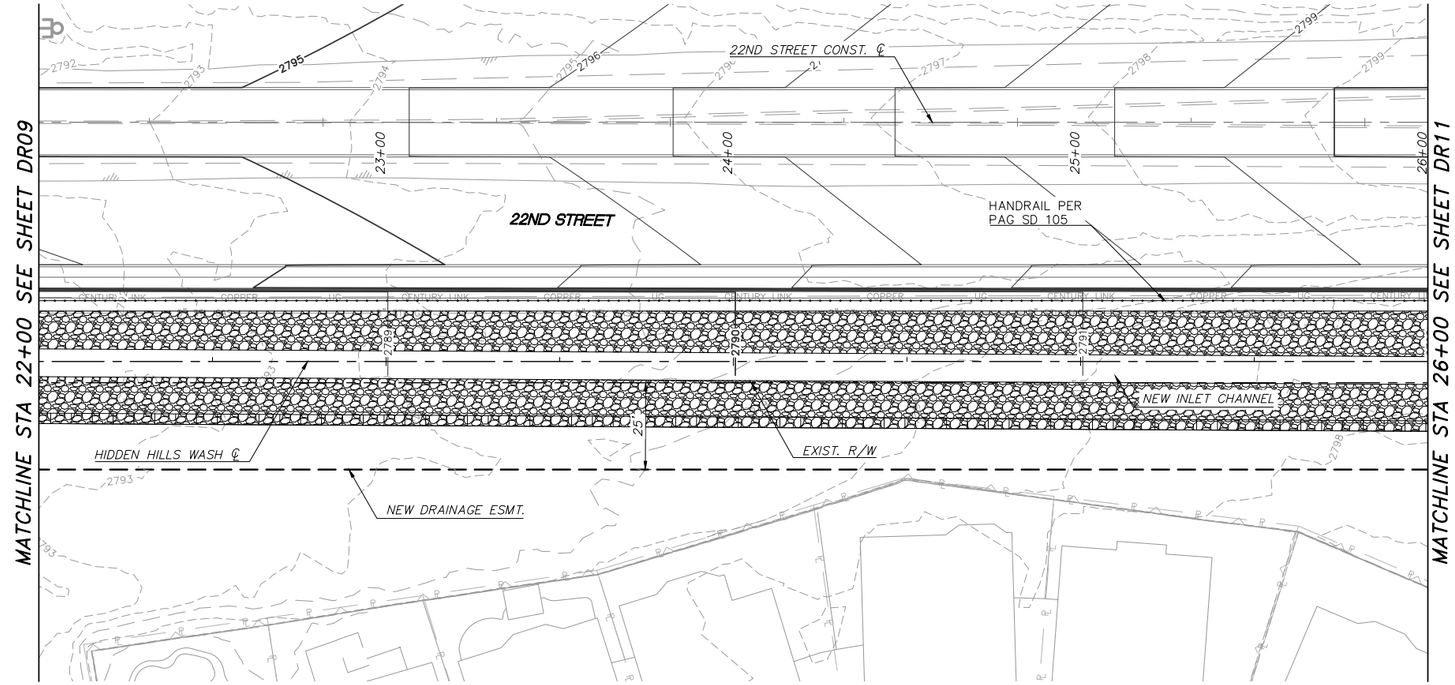
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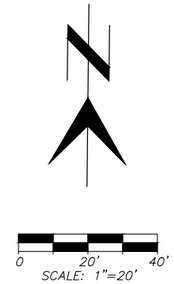
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

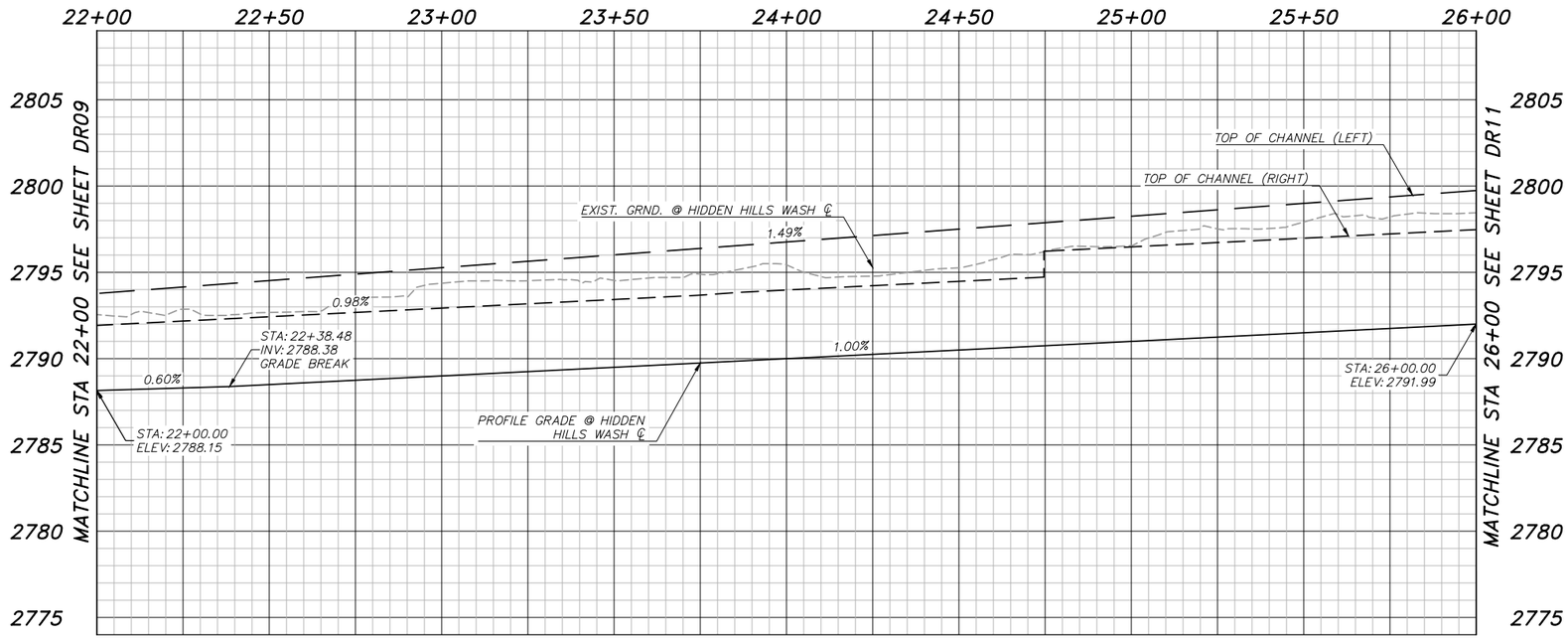
22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
CROSS CULVERT PLAN AND PROFILE

CITY OF TUCSON

DRWN. BY R. BESEKE	CHKD. BY R. BESEKE	APPR. BY K. PAYNE	SCALE: H: 1"=20' V: 1"=4'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004







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NO.	DATE	REVISION	BY	CHKD.	APPR.

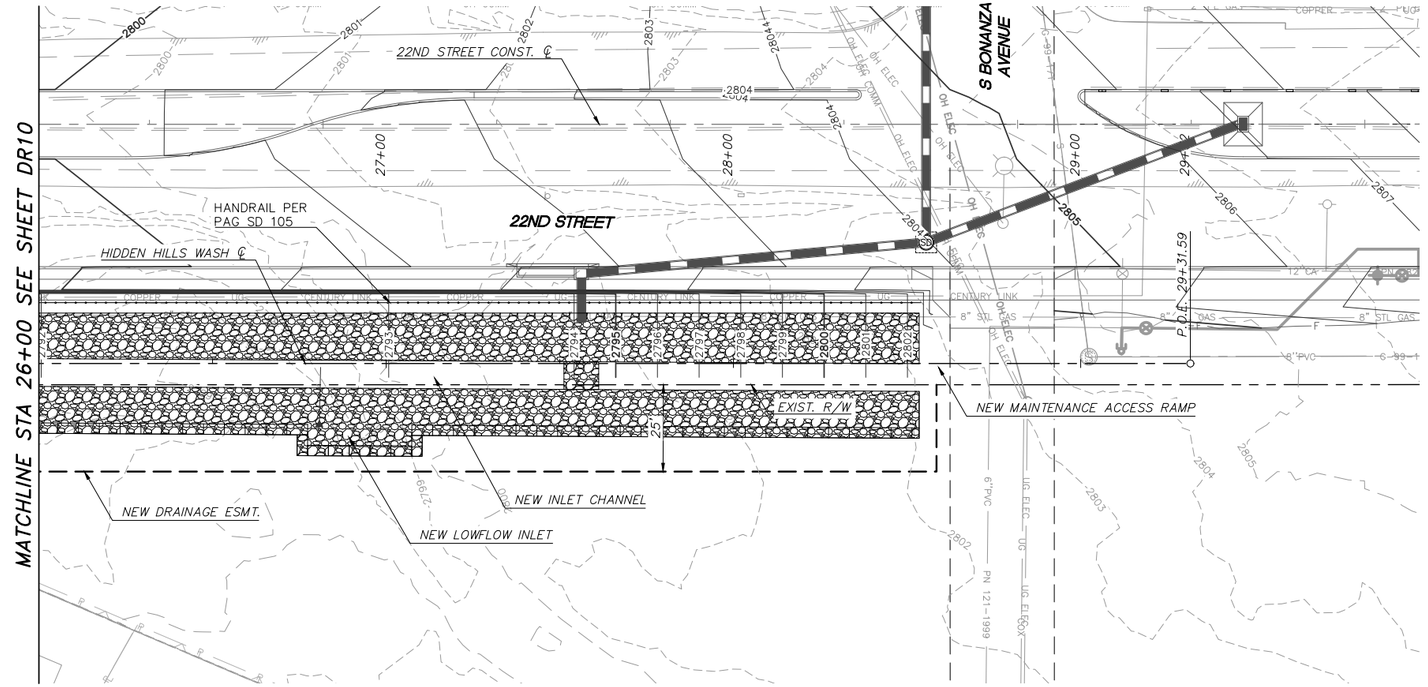
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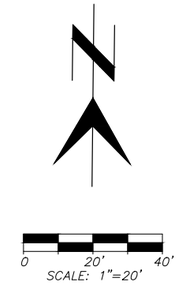
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

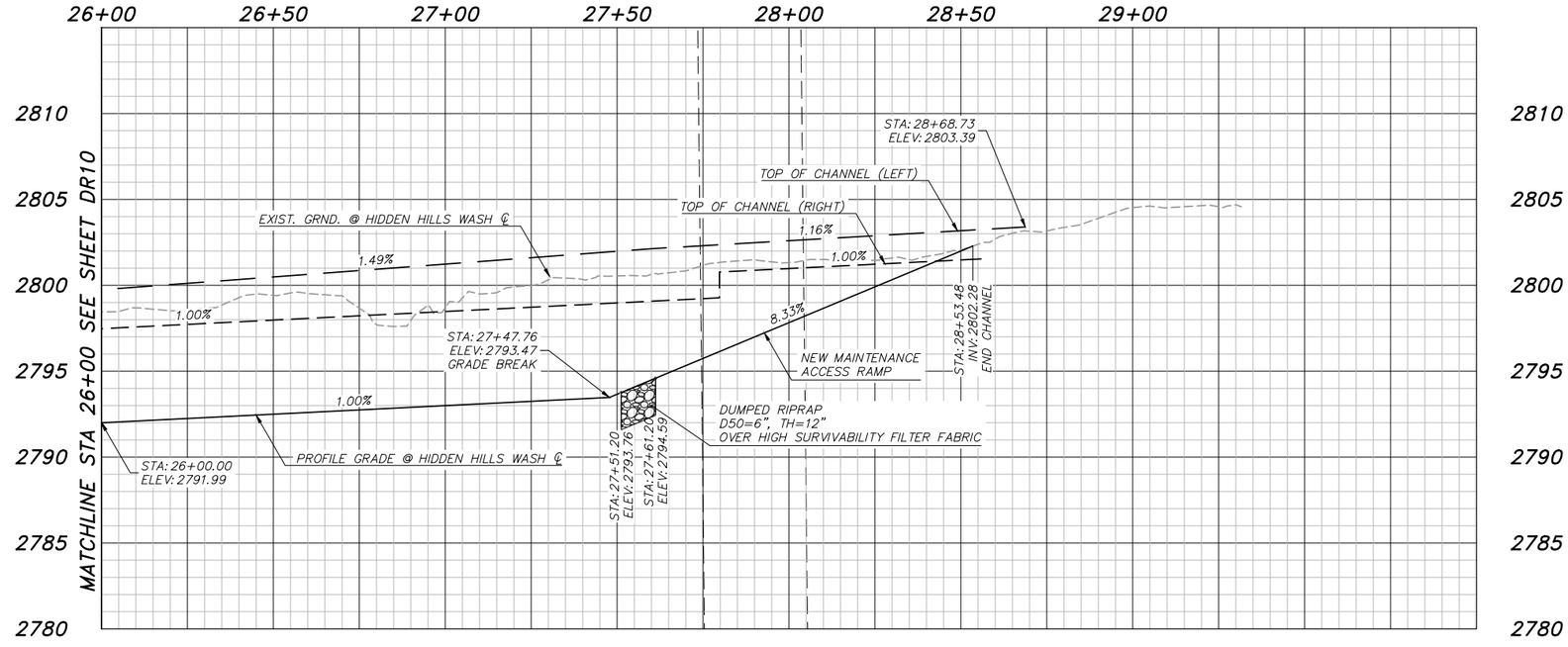
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
CROSS CULVERT PLAN AND PROFILE

CITY OF TUCSON

DRWN. BY R. BESEKE	CHKD. BY R. BESEKE	APPR. BY K. PAYNE	SCALE: H: 1"=20' V: 1"=4'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004







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NO.	DATE	REVISION	BY	CHKD.	APPR.

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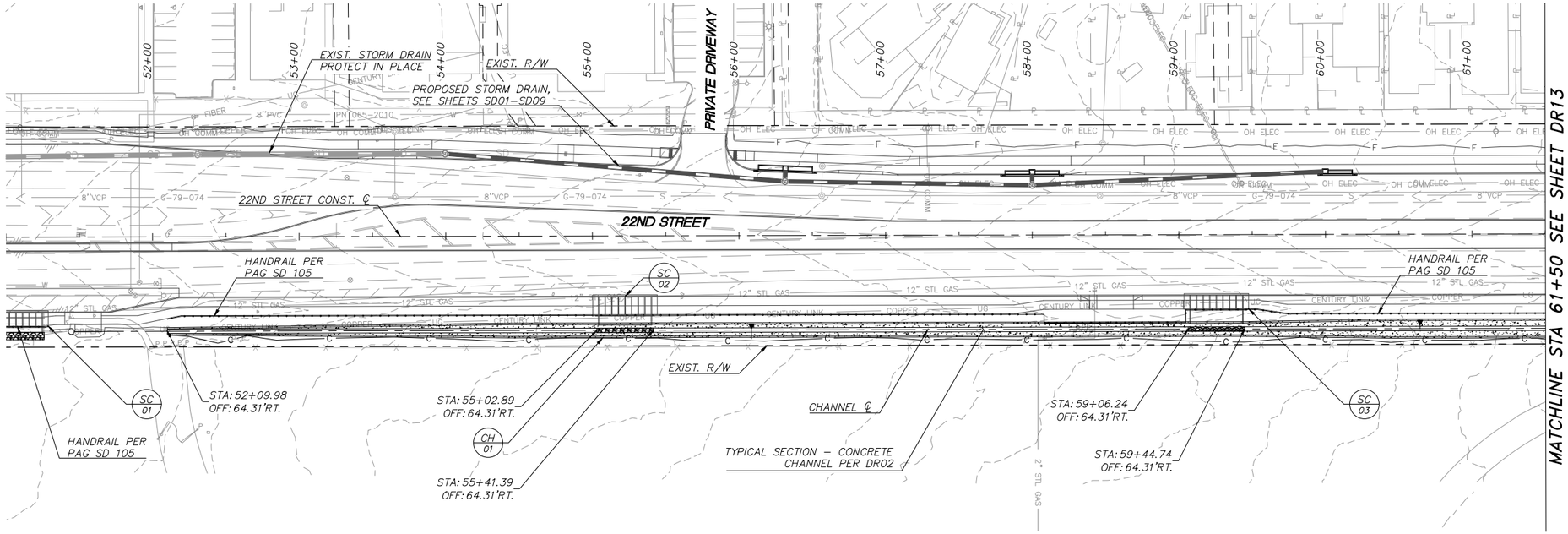
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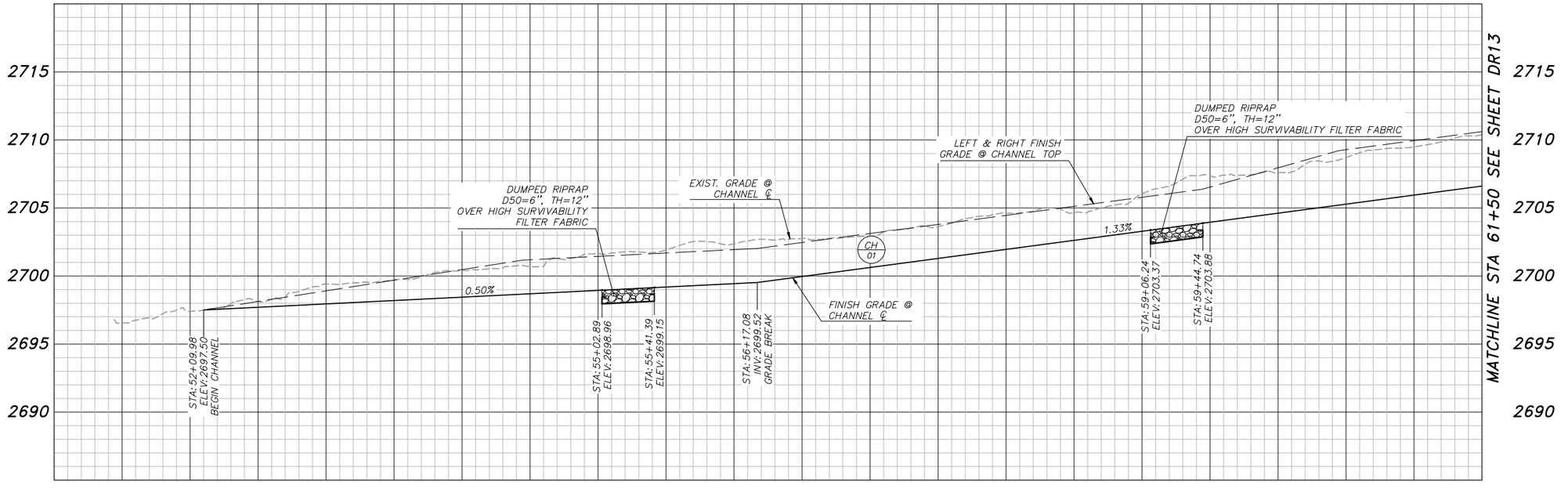
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
CROSS CULVERT PLAN AND PROFILE

CITY OF TUCSON

DRWN. BY R. BESEKE	CHKD. BY R. BESEKE	APPR. BY K. PAYNE	SCALE: H: 1"=20' V: 1"=4'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004





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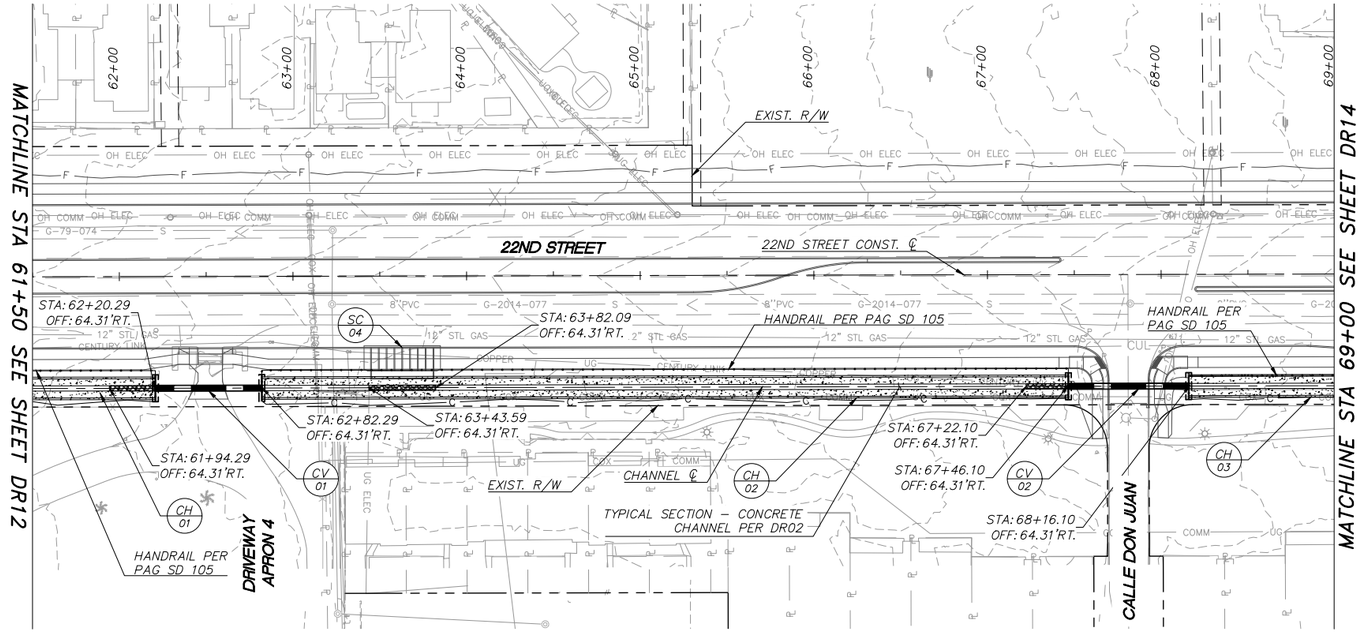
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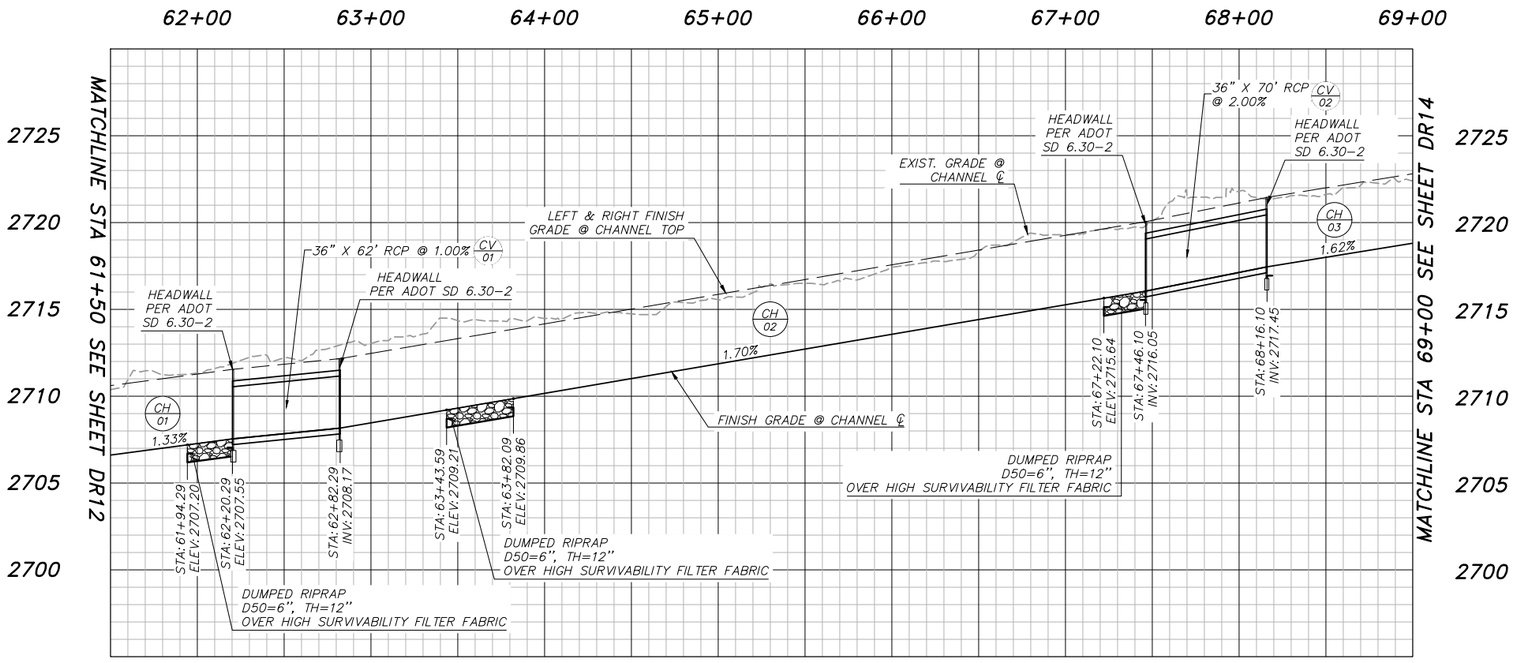
22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDE CHANNEL PLAN AND PROFILE

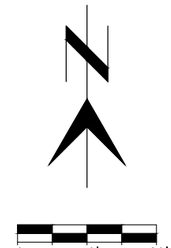
CITY OF TUCSON

DRWN. BY R. BESEKE AUG 20 25
CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25

SCALE: H: 1"=40' V: 1"=4'
PLAN NO. I-2025-004







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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDE CHANNEL PLAN AND PROFILE

CITY OF TUCSON

DRWN. BY R. BESEKE AUG 20 25
CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25

SCALE: H: 1"=40' V: 1"=4'
PLAN NO. I-2025-004

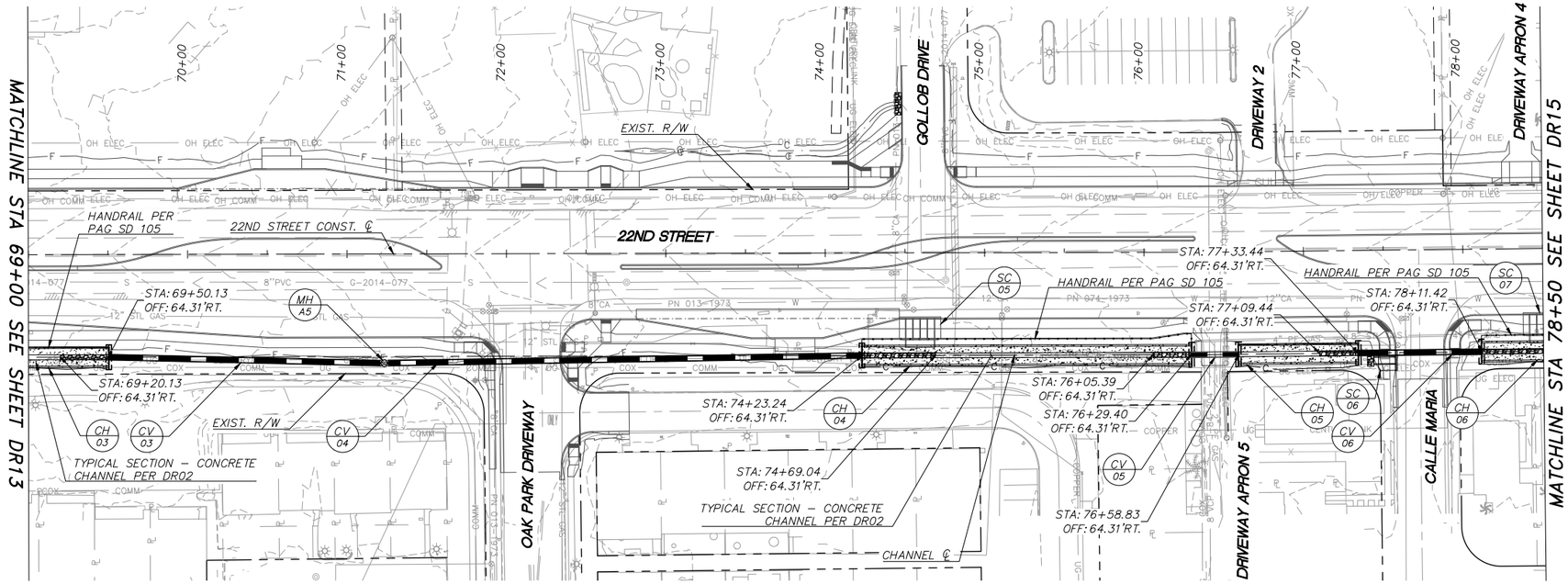
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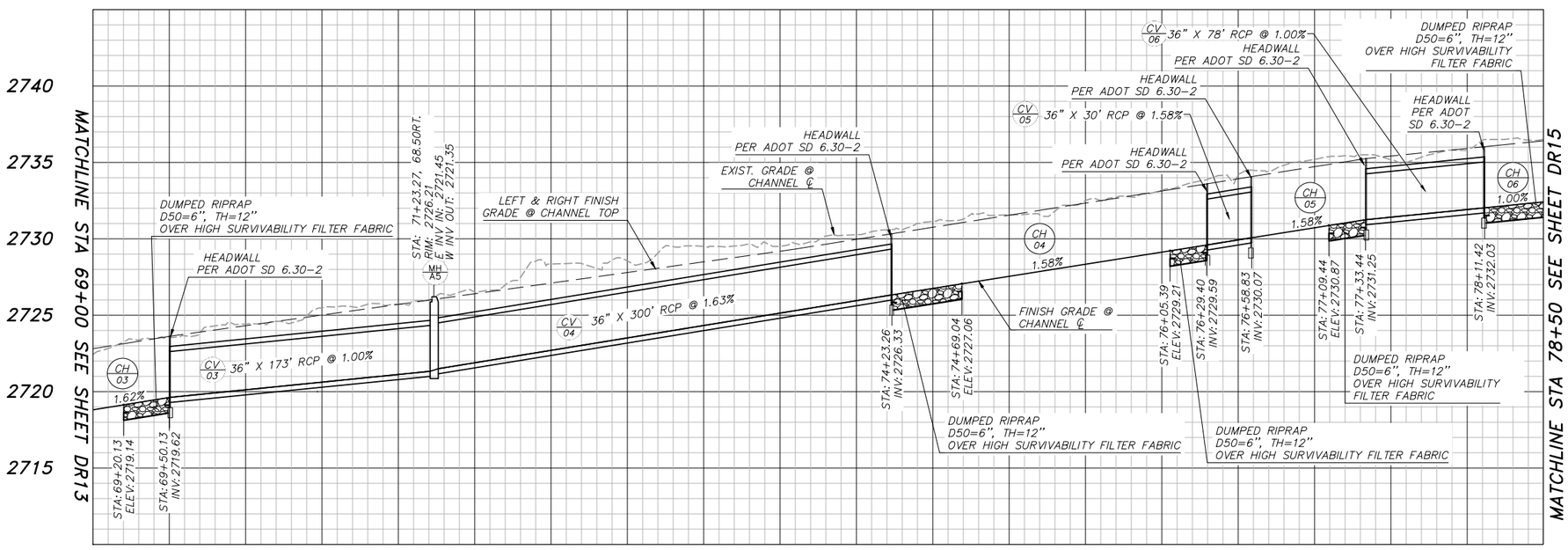
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDE CHANNEL PLAN AND PROFILE

CITY OF TUCSON

DRWN. BY R. BESEKE AUG 20 25
CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25

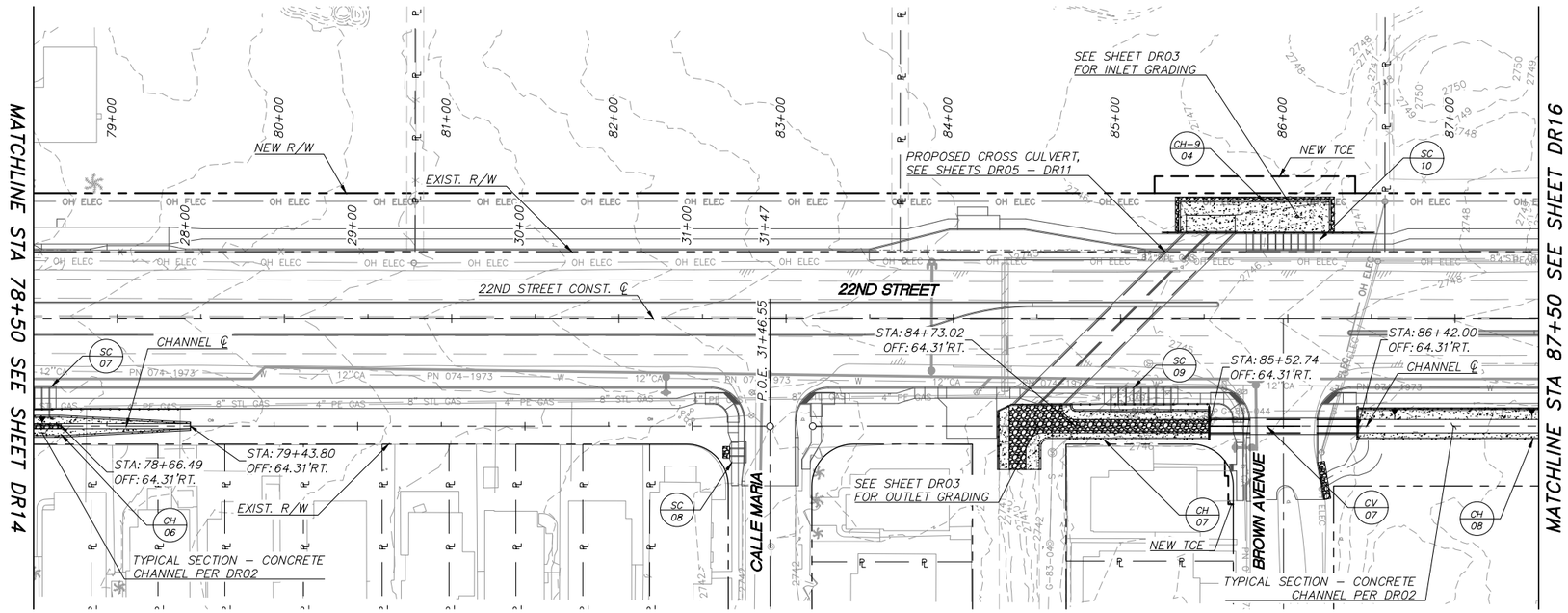
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PLAN NO. I-2025-004

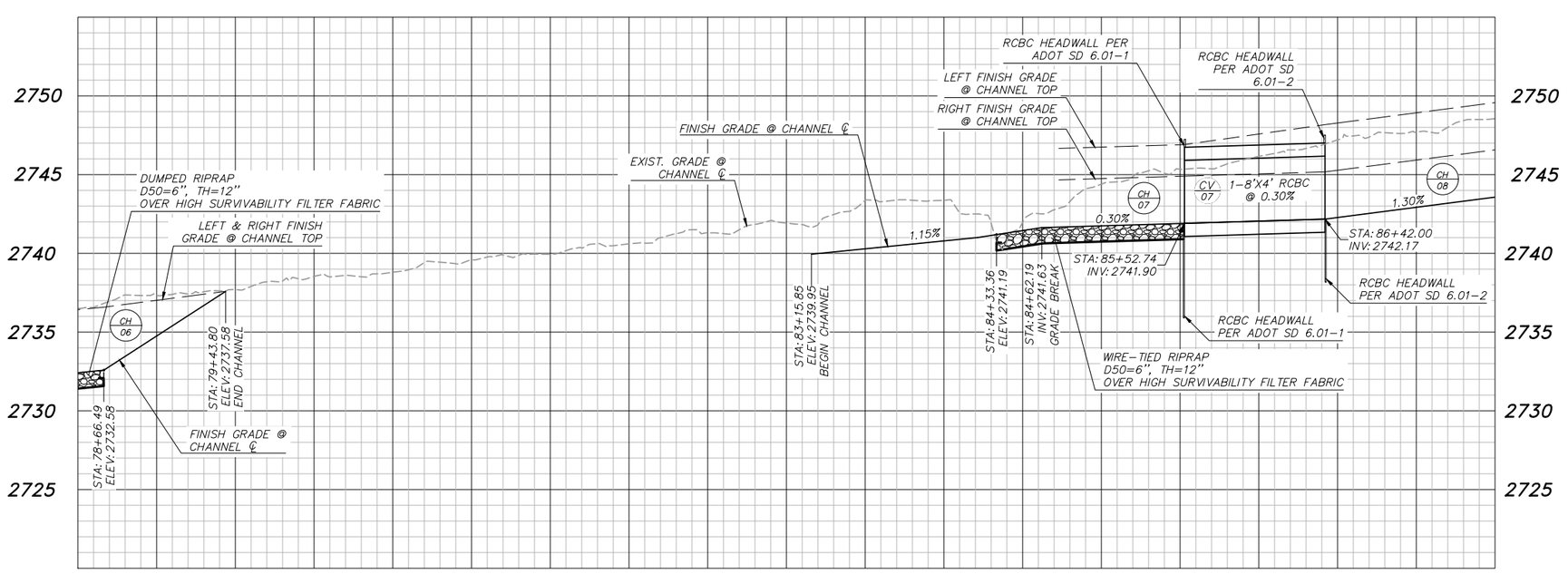
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0 40' 80'
SCALE: 1"=40'

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDE CHANNEL PLAN AND PROFILE

CITY OF TUCSON

DRWN. BY R. BESEKE AUG 20 25
CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25

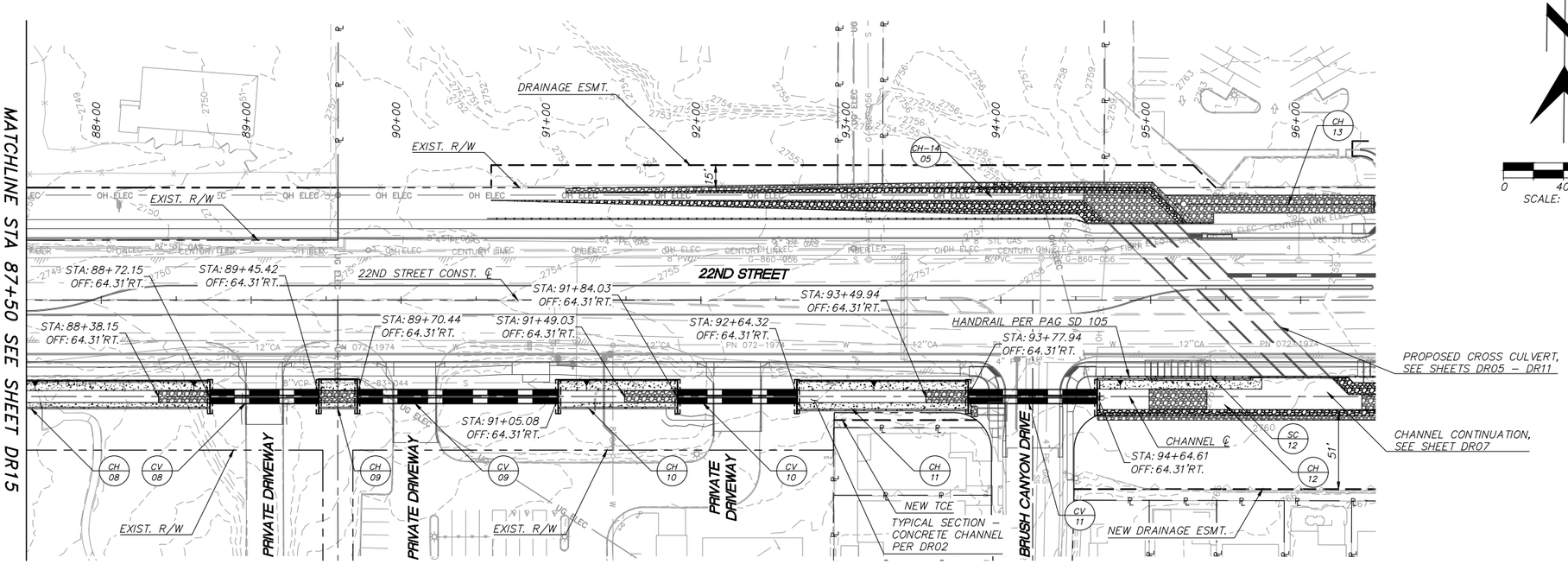
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PLAN NO. I-2025-004

DR15 OF DR18

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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIDE CHANNEL PLAN AND PROFILE

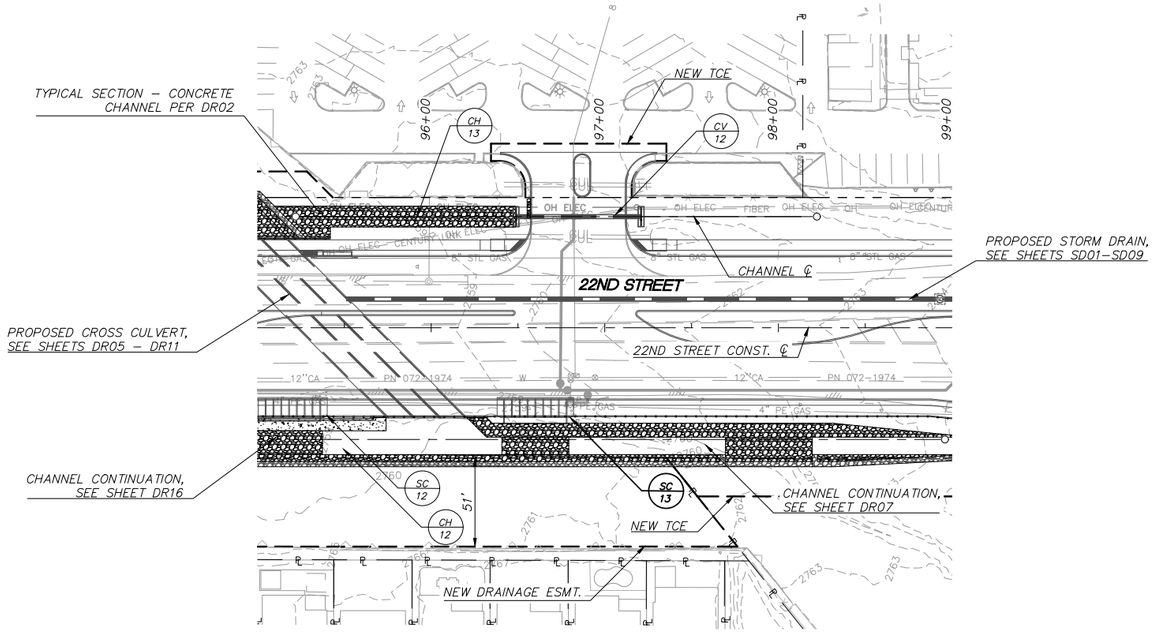
CITY OF TUCSON

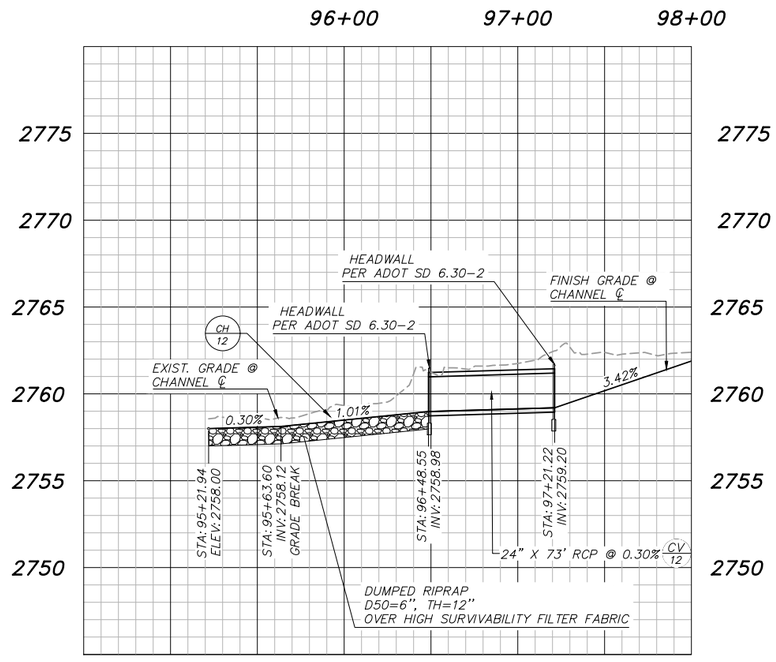
DRWN. BY R. BESEKE AUG 20 25
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PLAN NO. I-2025-004

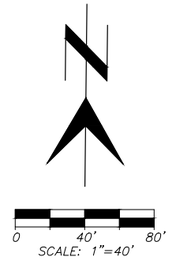
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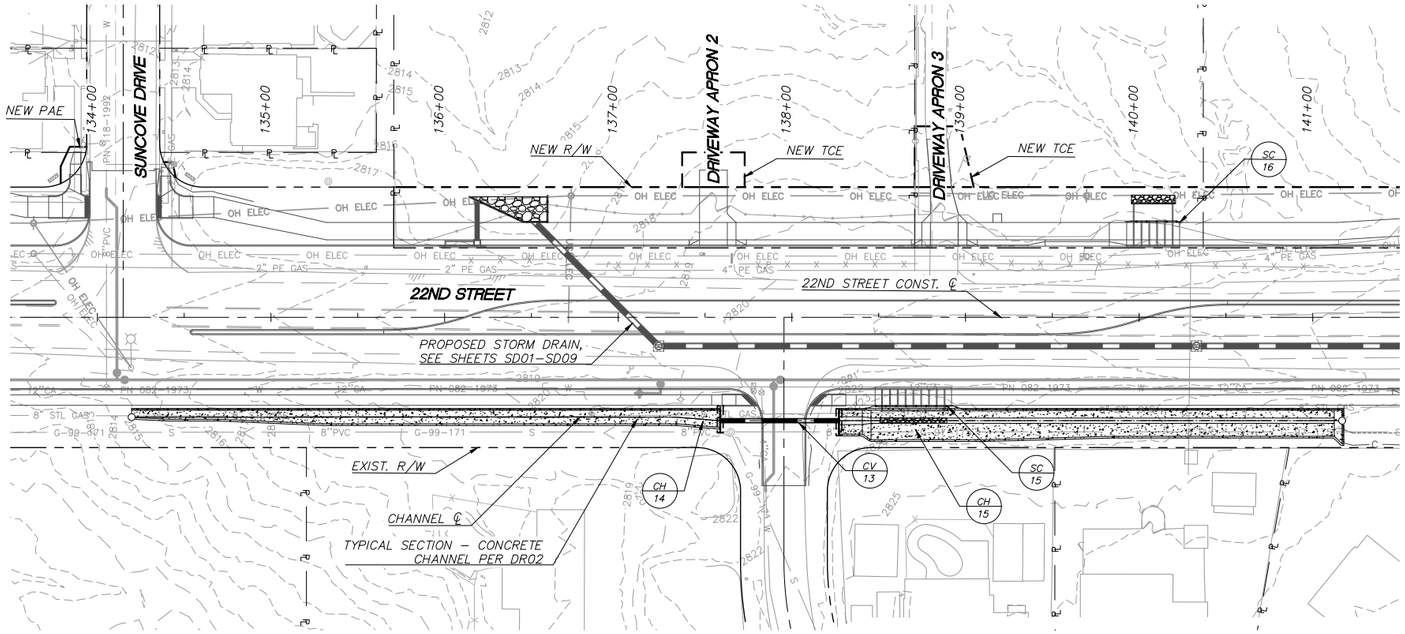
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

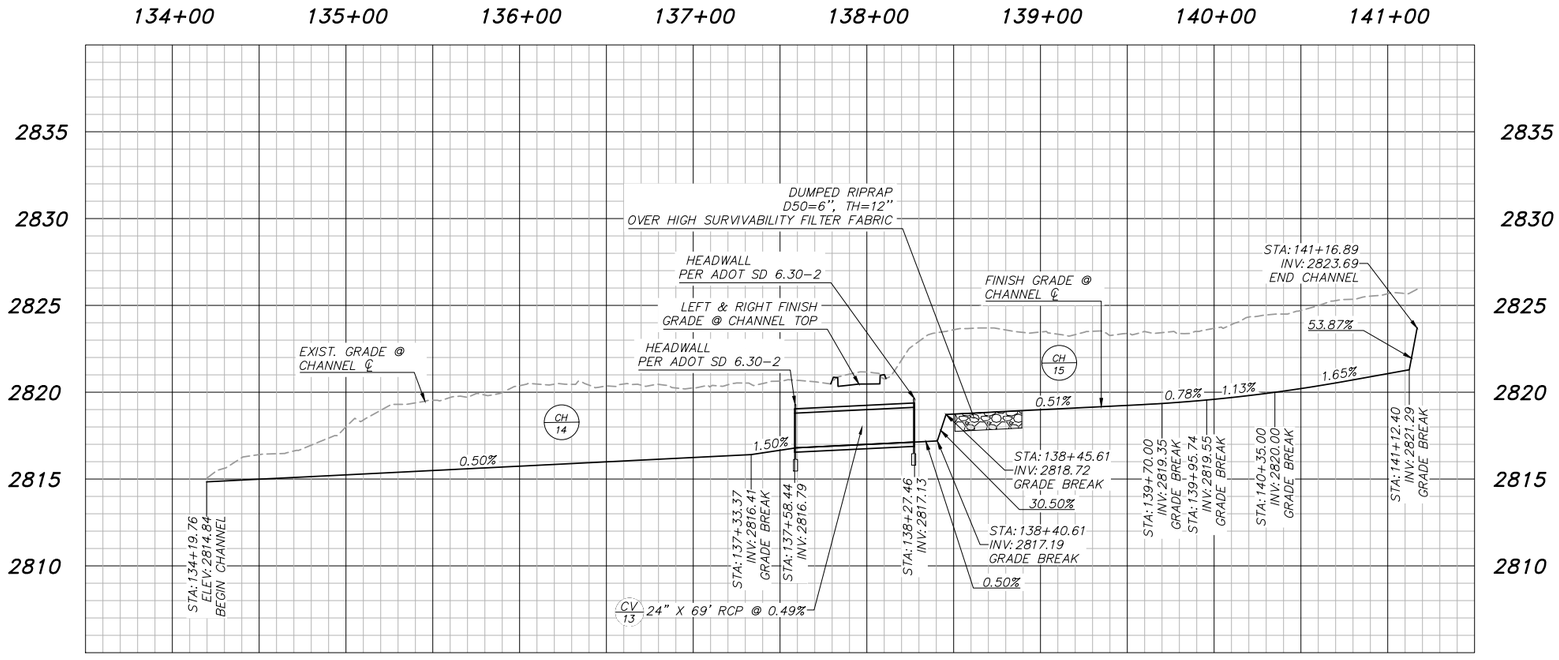
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ROAD WIDENING PROJECT
SIDE CHANNEL PLAN AND PROFILE

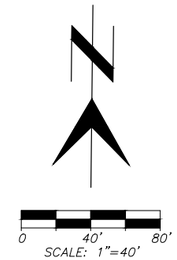
CITY OF TUCSON

DRWN. BY R. BESEKE AUG 20 25
CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25

SCALE: H: 1"=40' V: 1"=4'
PLAN NO. I-2025-004







NO.	DATE	REVISION	BY	CHKD.	APPR.

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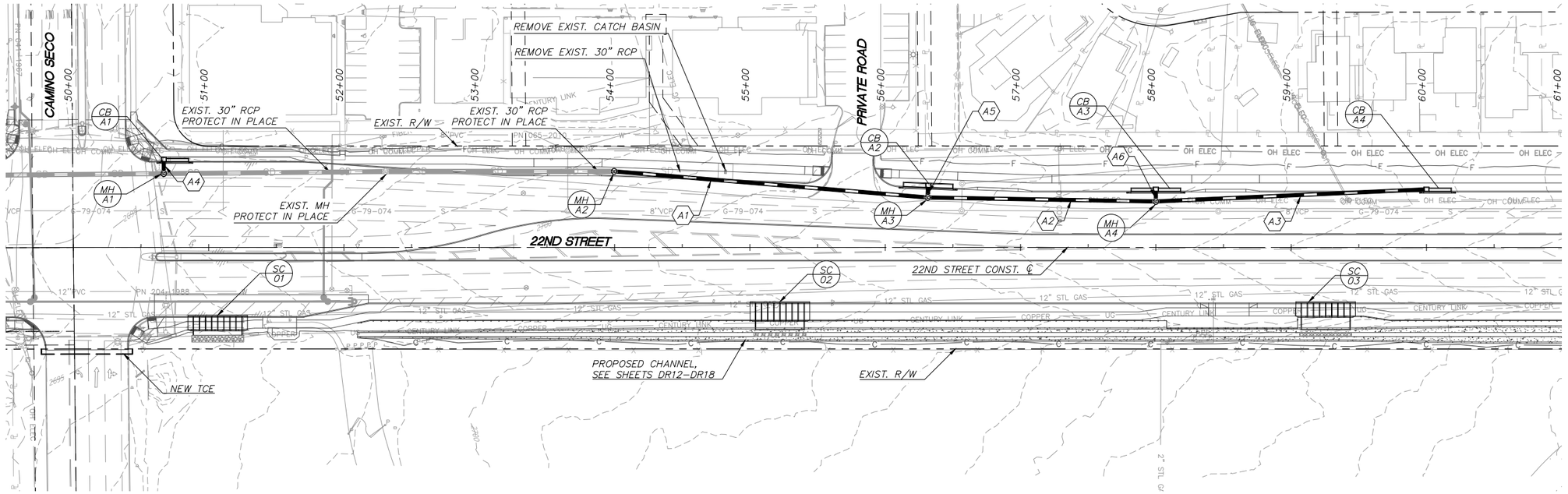
DR18 OF DR18

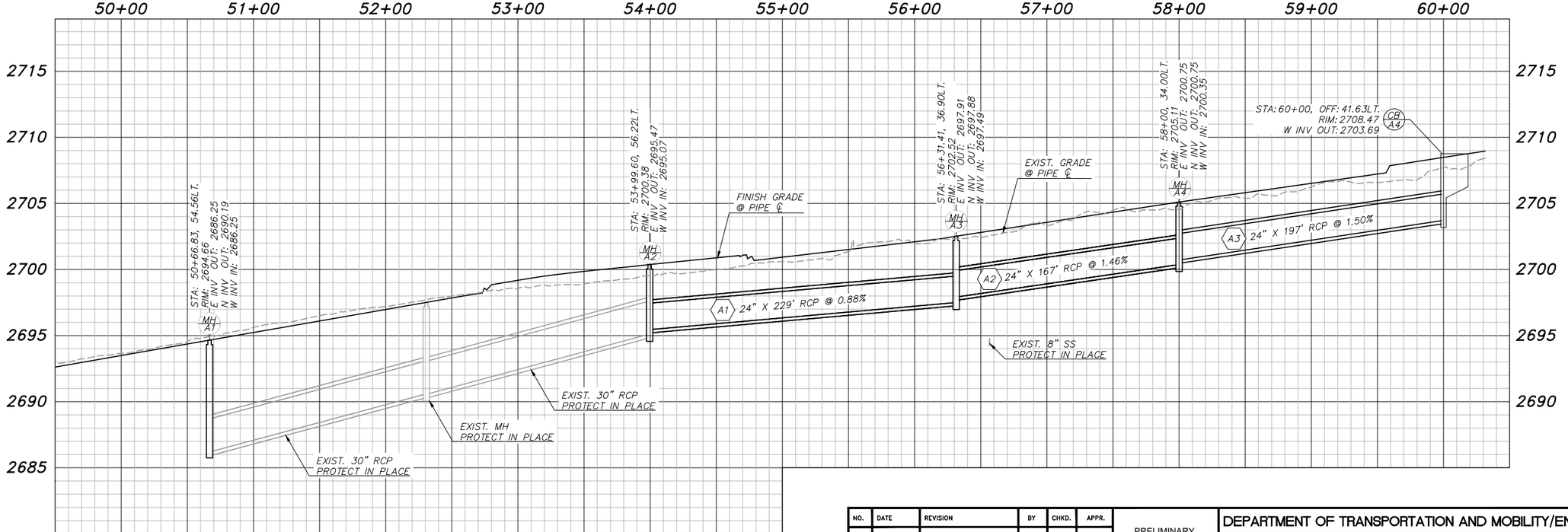
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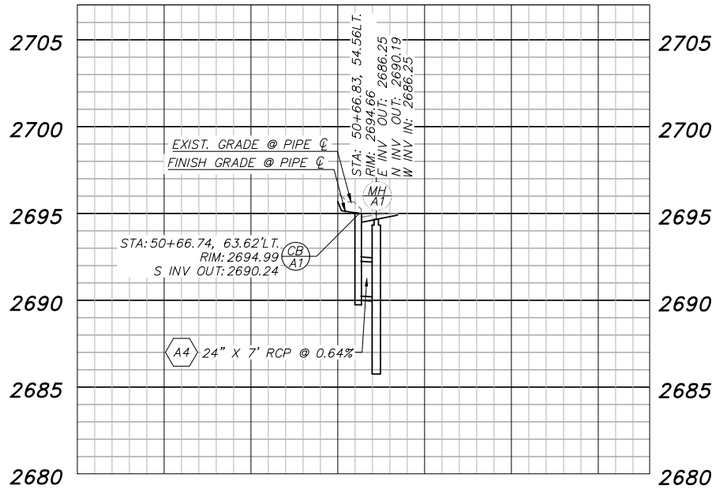
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ROAD WIDENING PROJECT
STORM DRAIN PLAN AND PROFILE

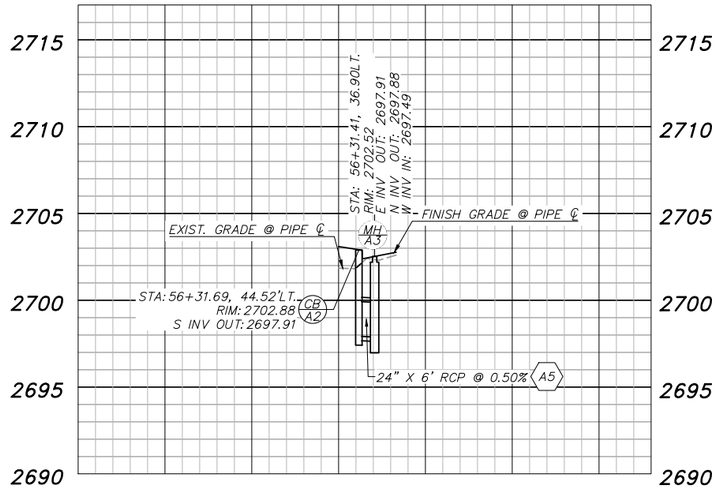
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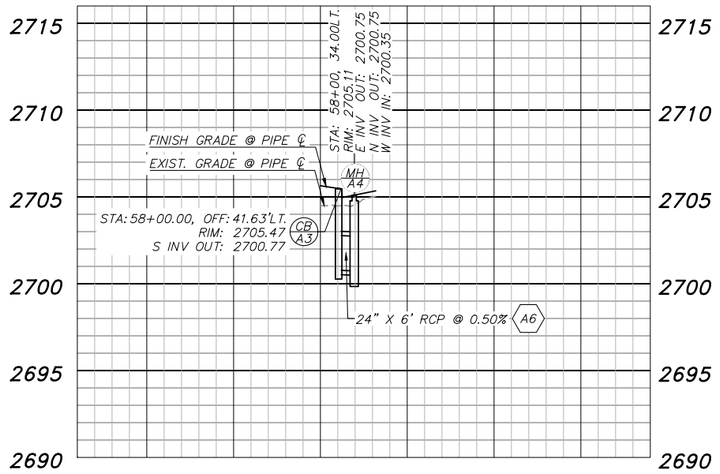
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PLAN NO. I-2025-004

SD01 OF SD09

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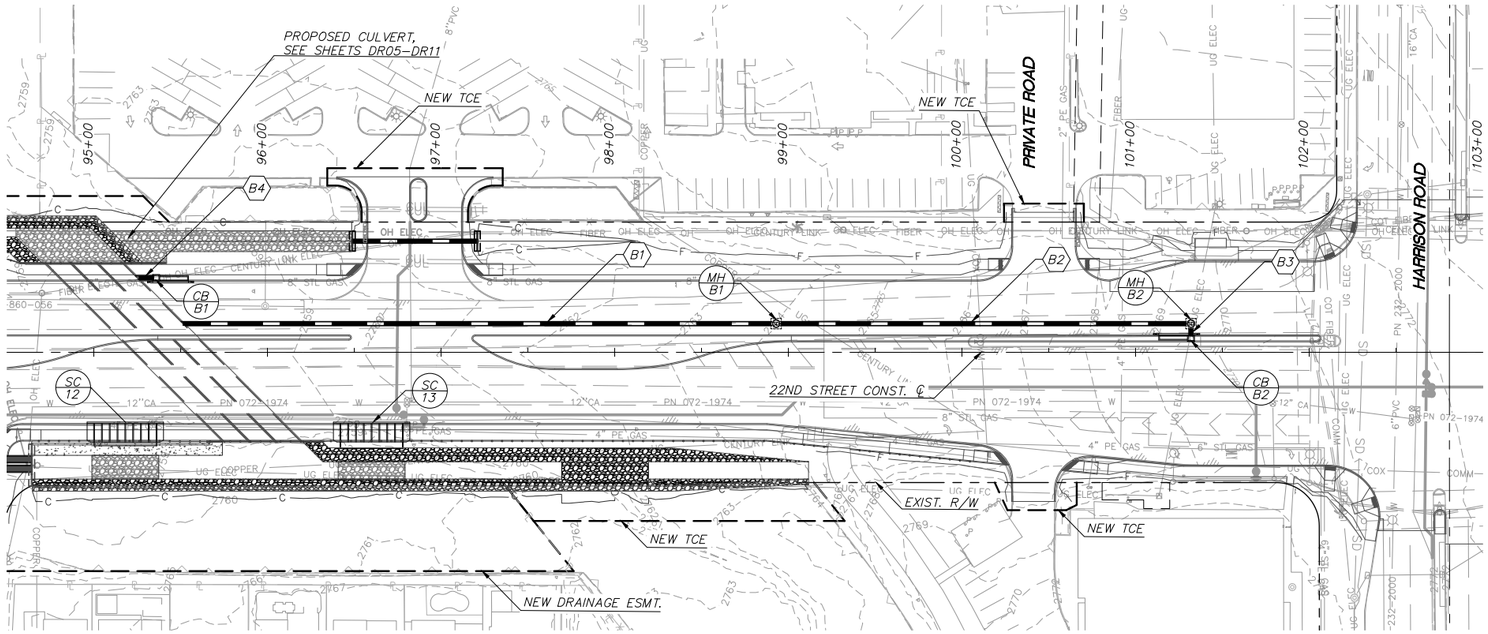
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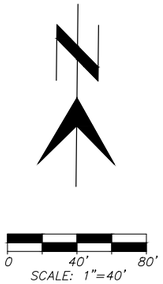
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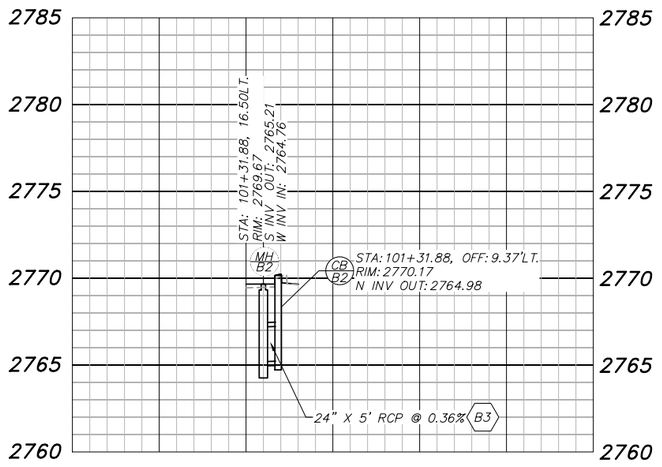
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ROAD WIDENING PROJECT
STORM DRAIN PLAN AND PROFILE

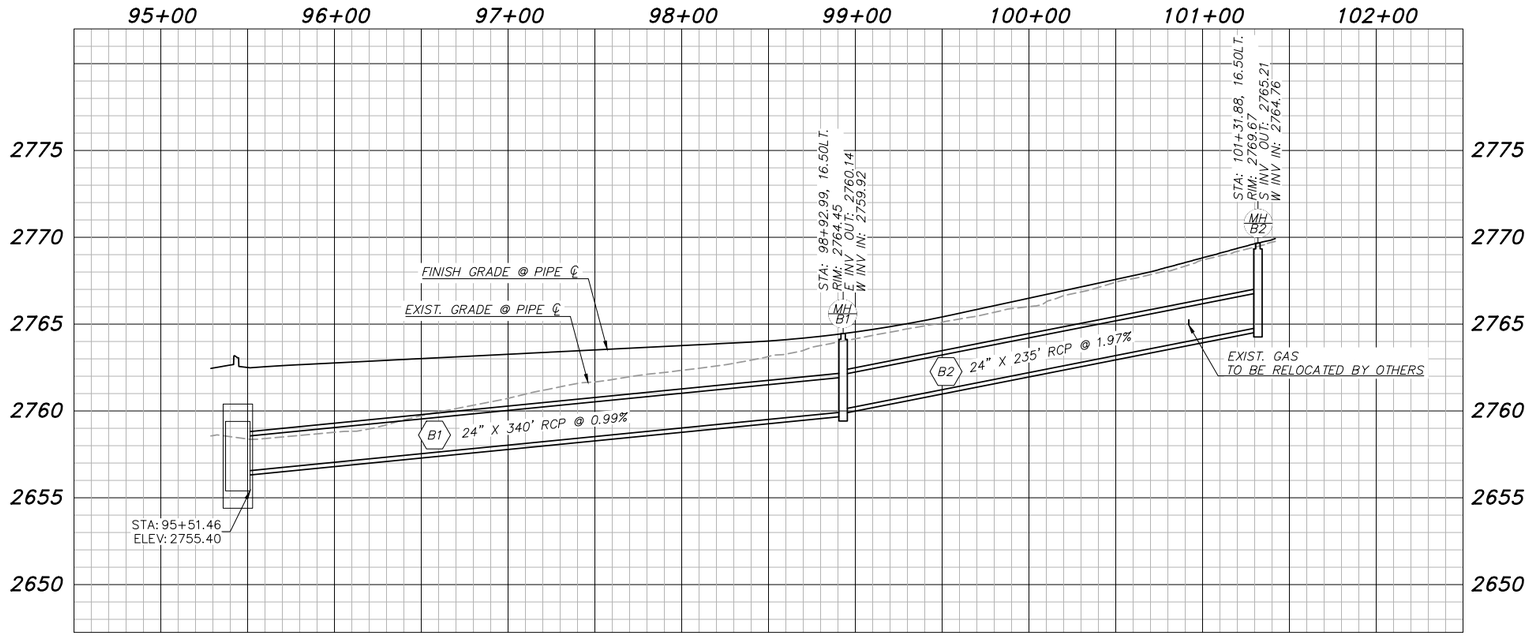
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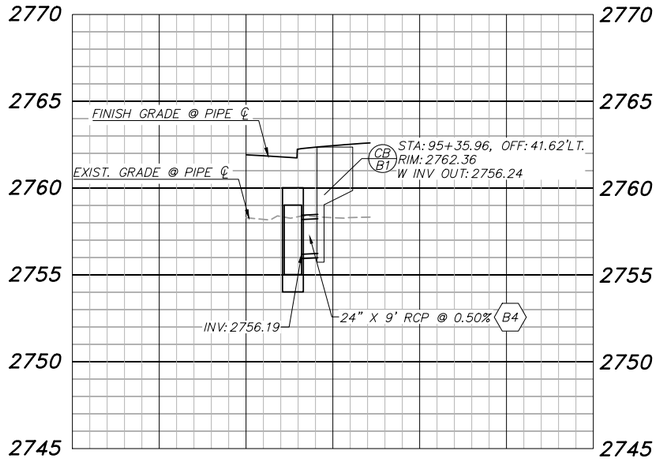
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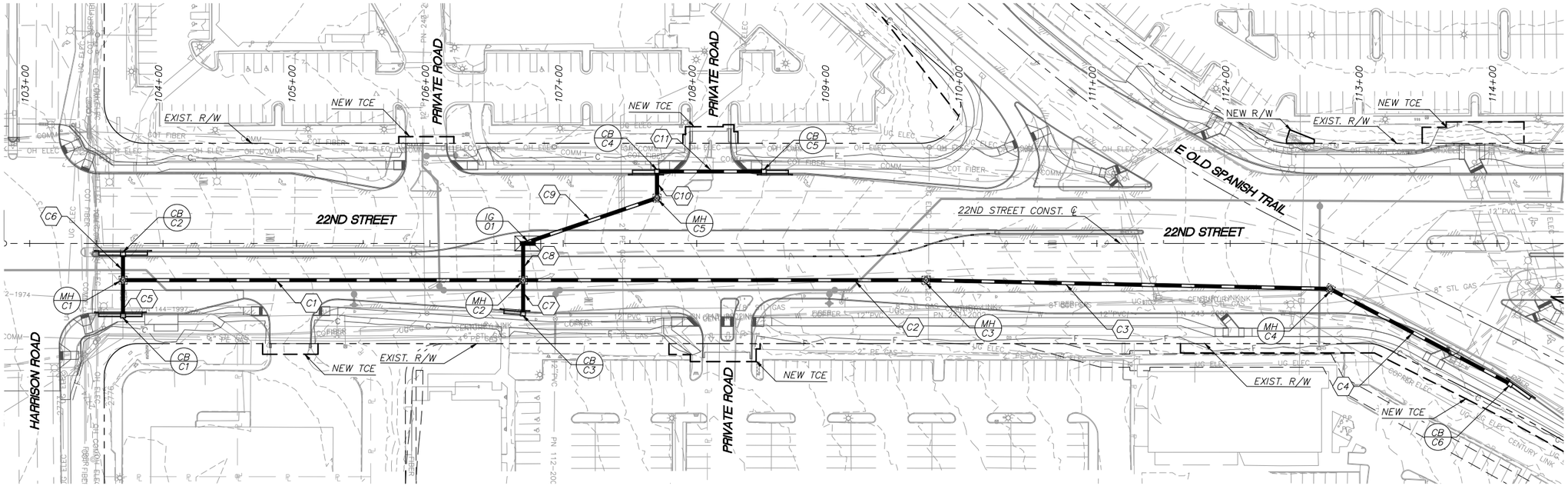
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ROAD WIDENING PROJECT
STORM DRAIN PLAN AND PROFILE

CITY OF TUCSON

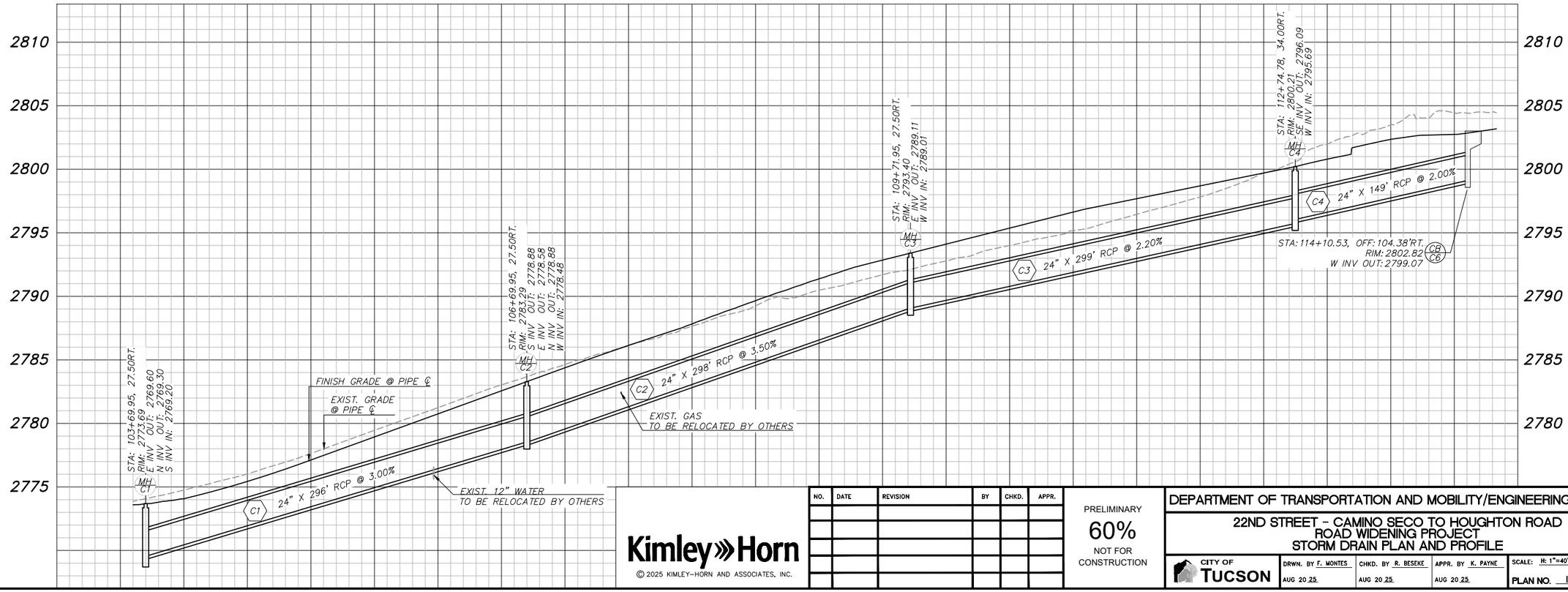
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CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25
SCALE: H: 1"=40' V: 1"=4'
PLAN NO. I-2025-004

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0 40' 80'
SCALE: 1"=40'



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STORM DRAIN PLAN AND PROFILE

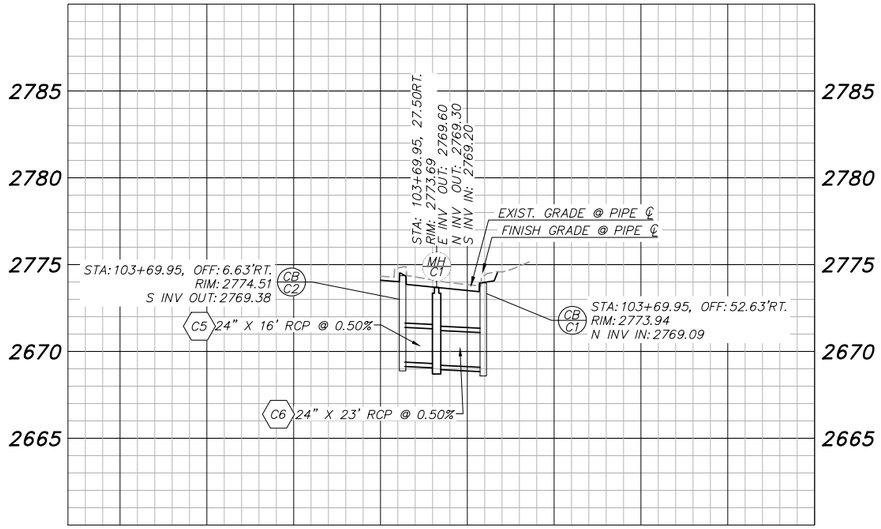
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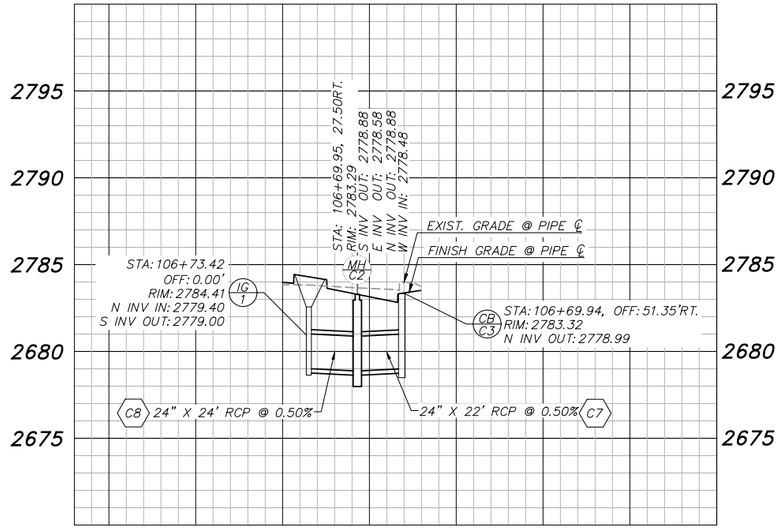
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AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

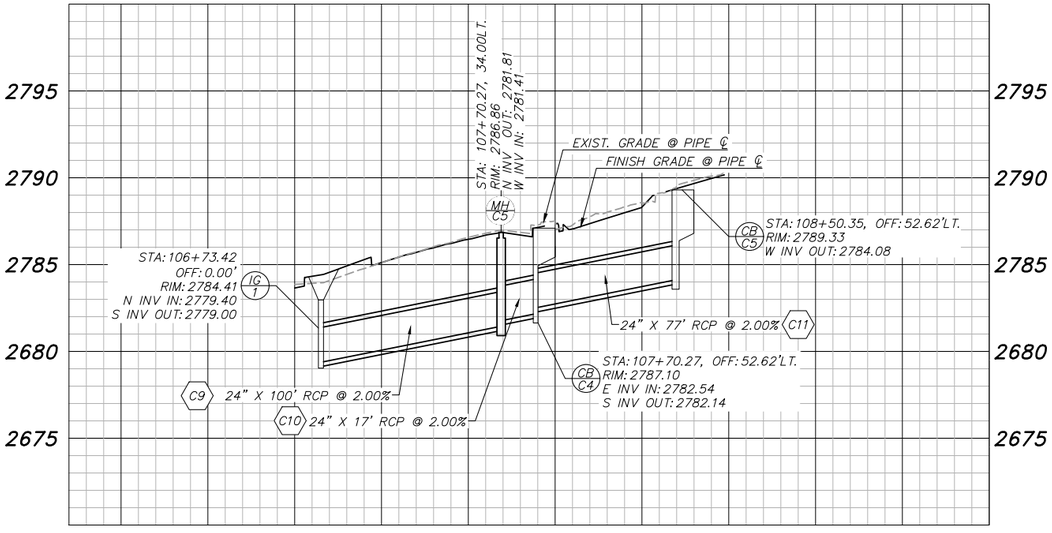
SD04 OF SD09

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ROAD WIDENING PROJECT
STORM DRAIN PLAN AND PROFILE

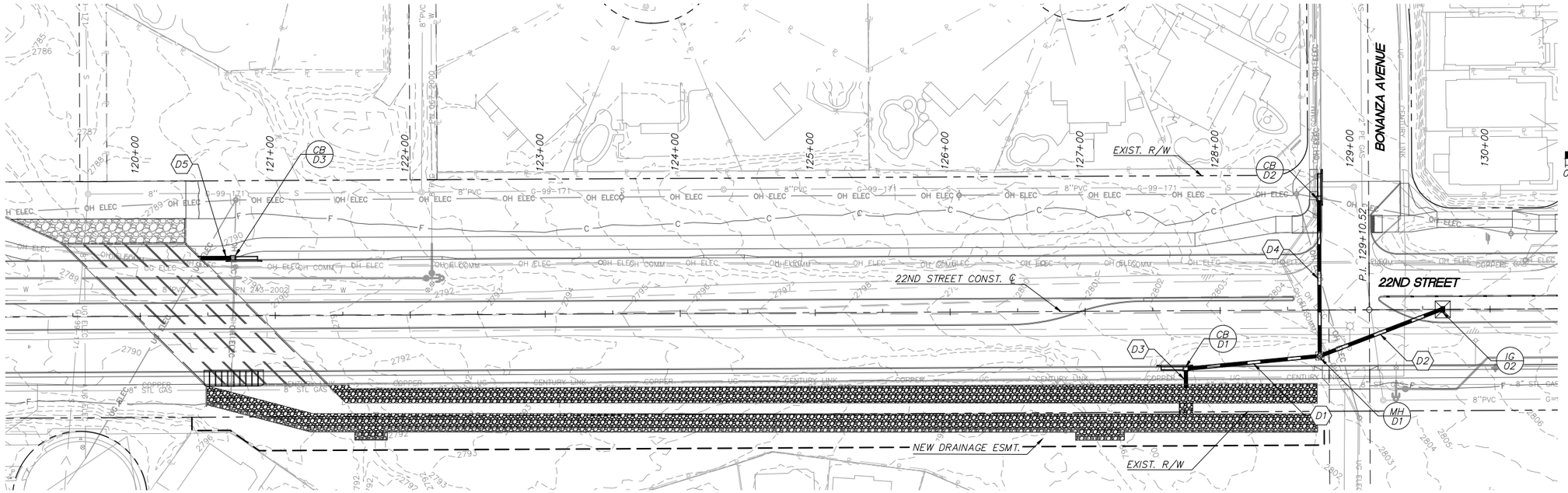
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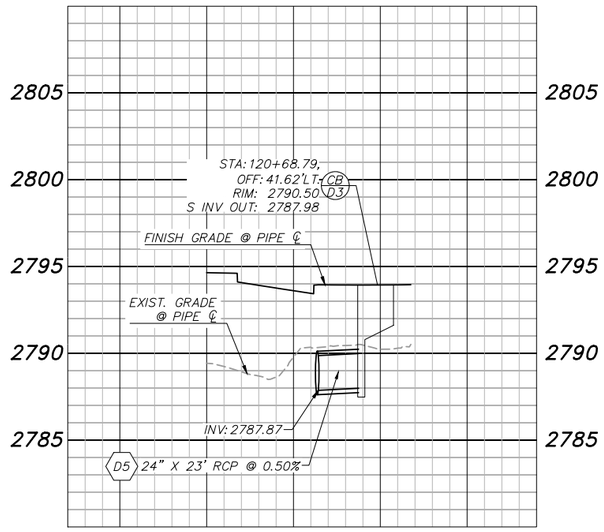
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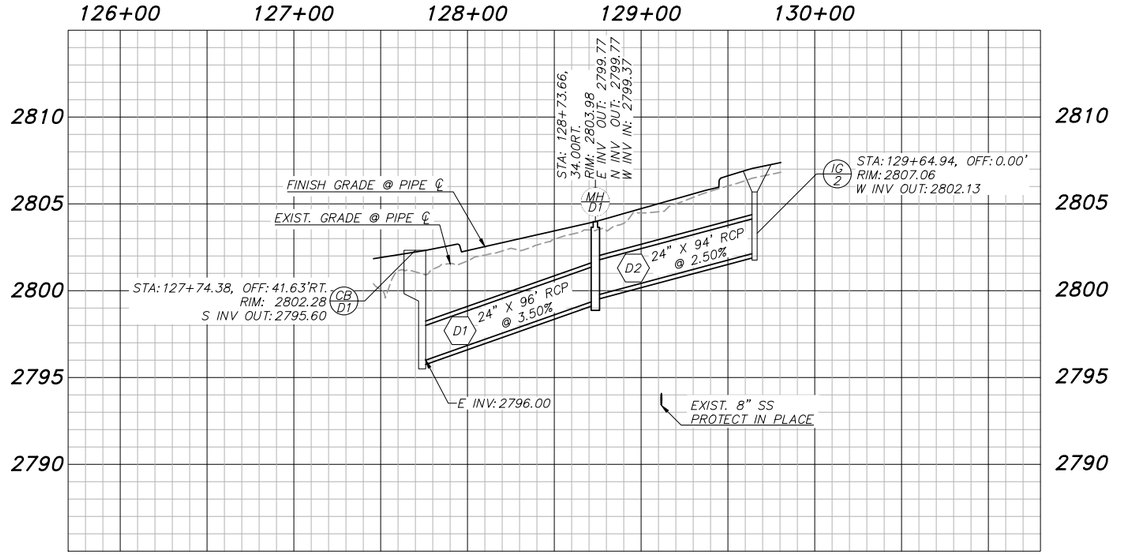
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PLAN NO. I-2025-004

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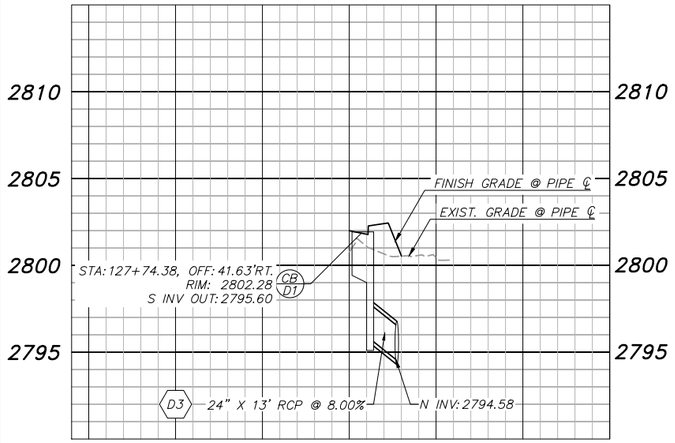
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ROAD WIDENING PROJECT
STORM DRAIN PLAN AND PROFILE

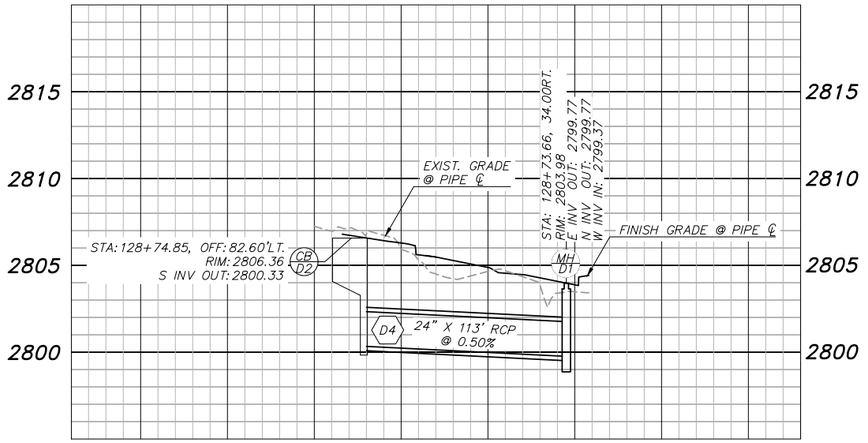
CITY OF TUCSON

DRWN. BY F. MONTES	CHKD. BY R. BESEKE	APPR. BY K. PAYNE	SCALE: H: 1"=40' V: 1"=4'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

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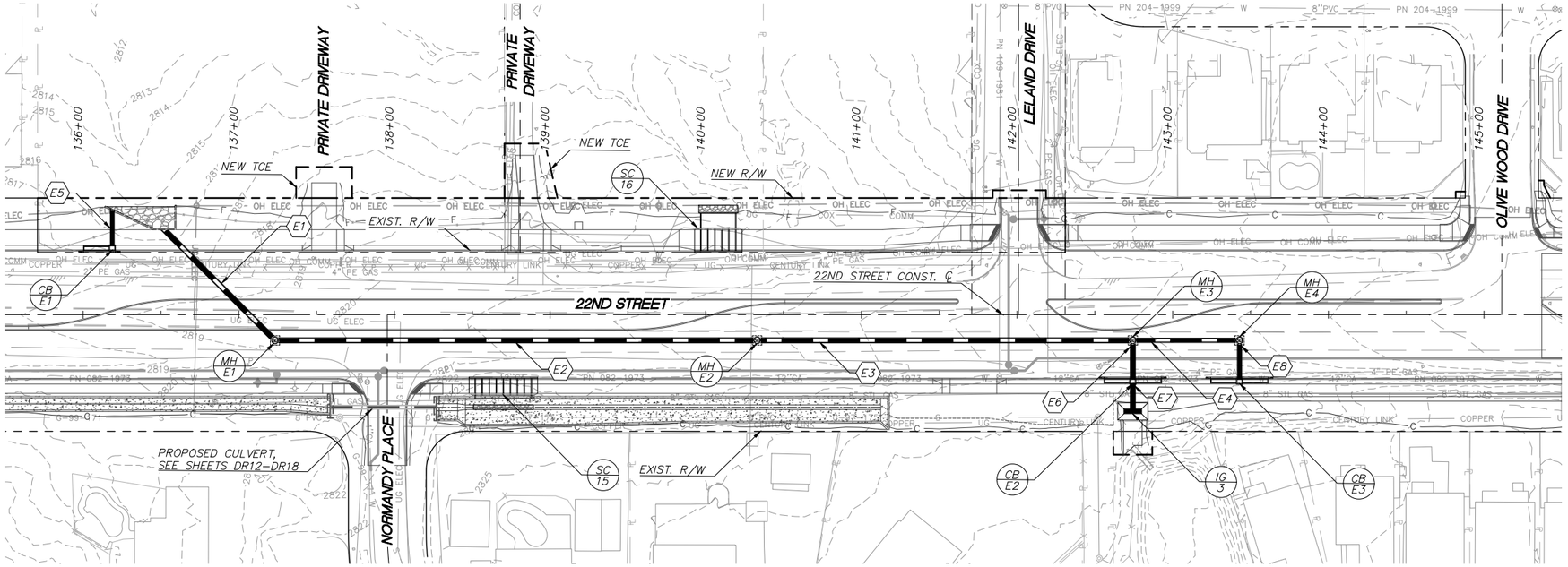
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

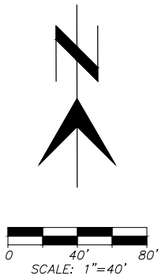
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ROAD WIDENING PROJECT
STORM DRAIN PLAN AND PROFILE

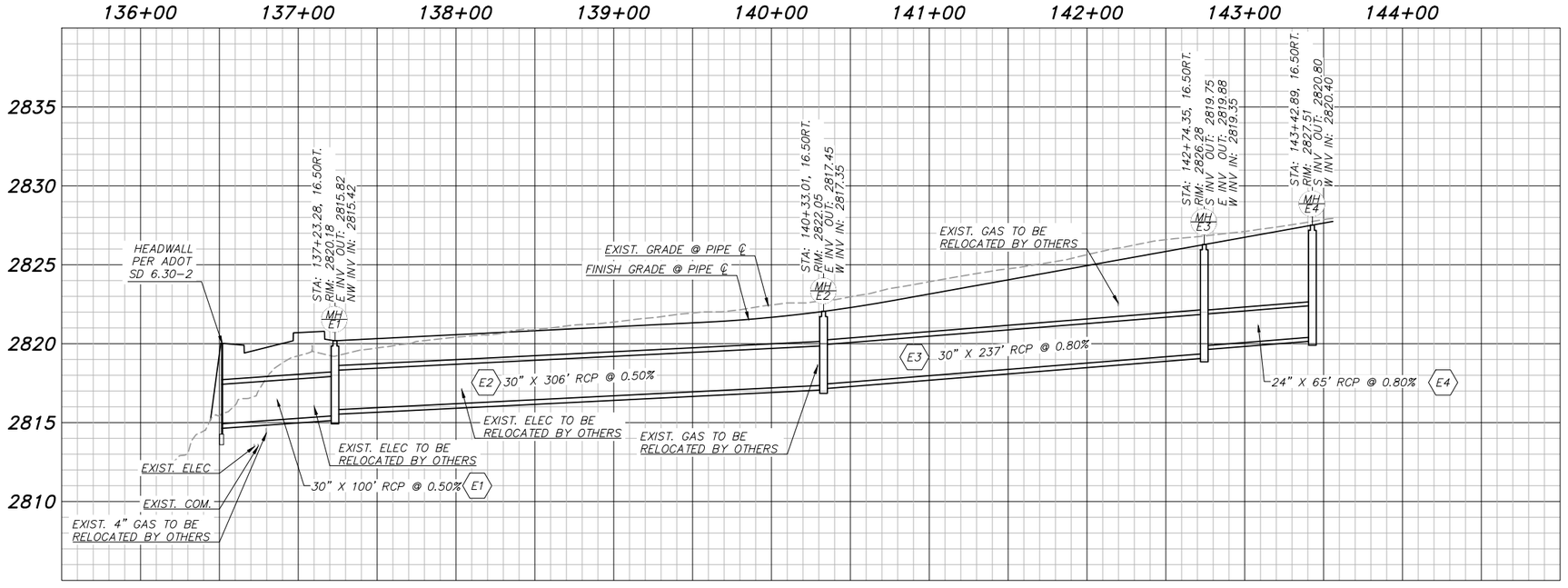
CITY OF TUCSON

DRWN. BY F. MONTES AUG 20 25
CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25

SCALE: H: 1"=40' V: 1"=4'
PLAN NO. I-2025-004







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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
STORM DRAIN PLAN AND PROFILE

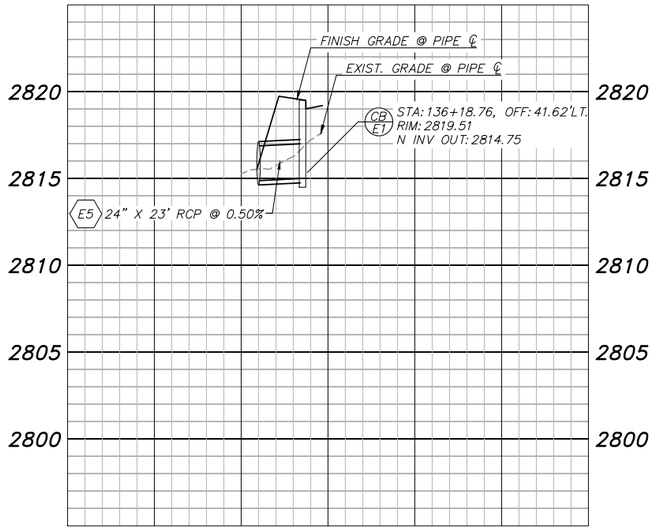
CITY OF TUCSON

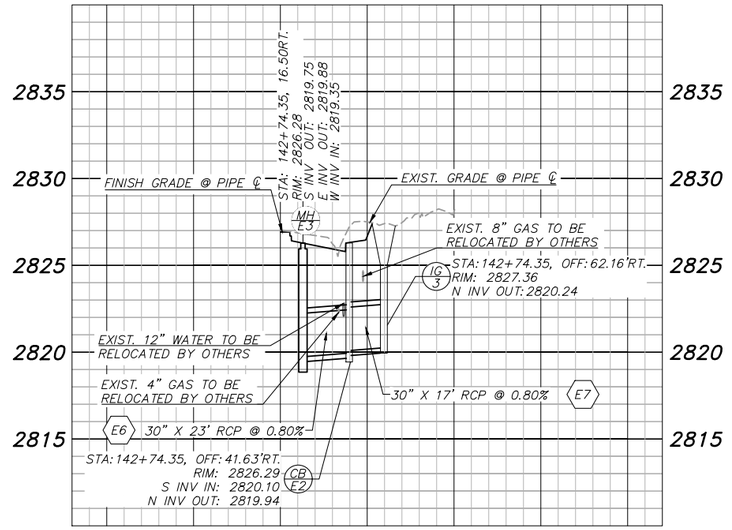
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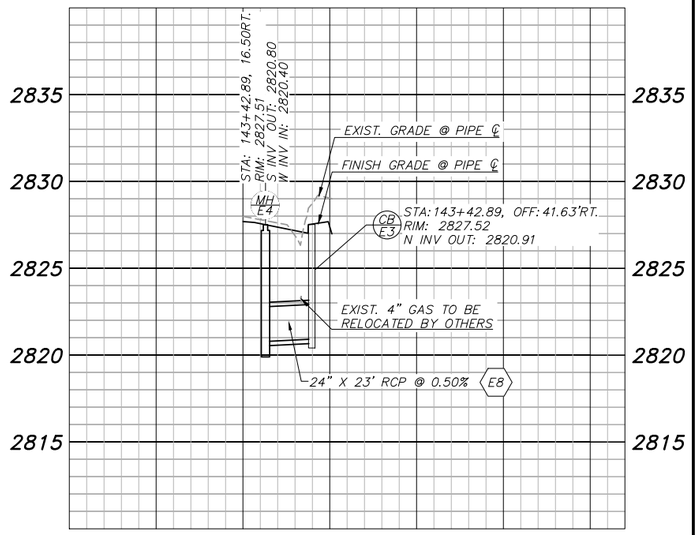
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PLAN NO. I-2025-004

SD08 OF SD09

116 OF 316







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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

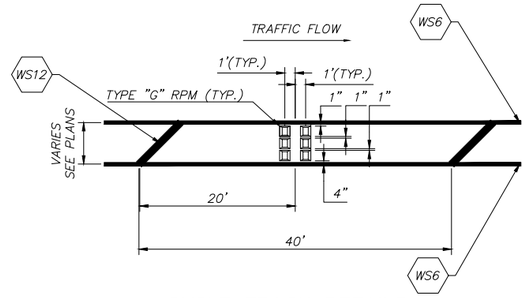
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ROAD WIDENING PROJECT
STORM DRAIN PLAN AND PROFILE

CITY OF TUCSON

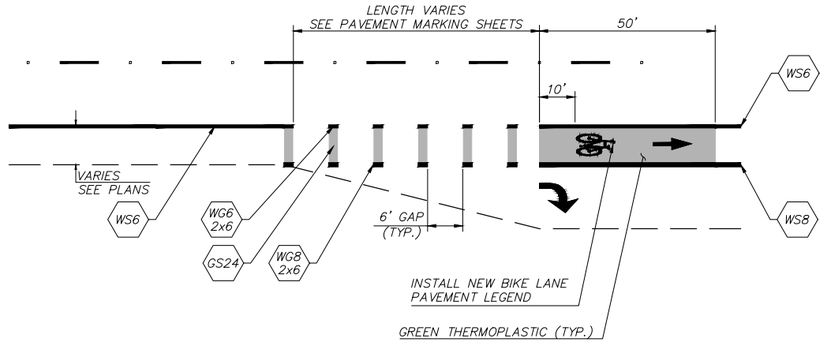
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CHKD. BY R. BESEKE AUG 20 25
APPR. BY K. PAYNE AUG 20 25
SCALE: H: 1"=40' V: 1"=4'
PLAN NO. I-2025-004

PAVEMENT MARKING GENERAL NOTES:

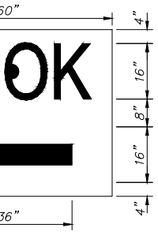
1. ALL EQUIPMENT/MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT PAG STANDARD SPECIFICATIONS AND THE STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS, AND THE APPROVED PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE PC/COT SIGNING & PAVEMENT MARKING DESIGN MANUAL.
2. THE STRIPING CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING MANAGER, GREG ORSINI (520-268-5036) (GREGORY.ORSINI@TUCSONAZ.GOV), AT LEAST THREE WORKING DAYS IN ADVANCE OF ANY PAVEMENT MARKING INSTALLATION TO SCHEDULE INSPECTION AND APPROVAL OF PAVEMENT MARKING LAYOUT.
3. A MEETING WITH THE INSPECTOR AND TRAFFIC ENGINEERING DESIGNATE SHALL BE SCHEDULED TO GO OVER STRIPING PLANS AND STRIPING CHANGES A MINIMUM OF 48 HOURS IN ADVANCE OF STRIPING ACTIVITY ON EACH SHEET.
4. THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE TRAFFIC ENGINEER AND APPROVED BY THE COT PROJECT ENGINEER OR THEIR DESIGNEE.
5. THE POSTED SPEED LIMIT FOR 22ND STREET IS 40 MPH.
   THE POSTED SPEED LIMIT FOR OLD SPANISH TRAIL IS 30 MPH.
6. ALL LANE DIMENSIONS ARE MEASURED FROM THE CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, OR FACE OF CURB UNLESS OTHERWISE NOTED. ALL MEDIAN DIMENSIONS ARE MEASURED FROM THE CENTER OF LANE LINE TO THE CENTER OF LANE LINE, OR FACE OF CURB TO FACE OF CURB.
7. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, APPLICABLE MARKING DETAILS, AND SPECIFIED CITY OF TUCSON STANDARDS WHEN INSTALLING PAVEMENT STRIPING, SYMBOLS, LEGENDS, AND MARKERS.
8. THE FINAL LONGITUDINAL STRIPING SHALL BE 90 MIL (0.090") THICK EXTRUDED OR RIBBON THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE PAINTED LAYOUT STRIPING WITHIN 21 TO 30 CALENDAR DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED. ALL PREVIOUSLY EXEMPTED LONGLINE MARKINGS SHALL BE APPLIED DURING THE FINAL LONGITUDINAL STRIPING.
9. ALL FINAL TRANSVERSE STRIPING SHALL BE 90 MIL (0.090") EXTRUDED THERMOPLASTIC.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS.
11. ALL RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR REFLECTIVE FACE OF EACH MARKER IS FACING APPROACHING TRAFFIC AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
12. ALL RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED PER THE CURRENT EDITION OF THE PC/COT SIGNING AND PAVEMENT MARKING MANUAL.
13. BICYCLE GREEN PAVEMENT MARKINGS SHALL BE PREFORMED THERMOPLASTIC. BICYCLE LEGENDS ON GREEN PREFORMED THERMOPLASTIC SHALL ALSO BE PREFORMED THERMOPLASTIC AND SHALL BE EMBEDDED WITHIN THE GREEN BACKGROUND SUCH THAT EDGES MEET AND SURFACES ARE FLUSH.
14. BLUE RAISED PAVEMENT MARKERS SHALL BE PLACED ADJACENT TO FIRE HYDRANTS AS SHOWN ON SHEET 3.3.3 OF THE PC/COT SIGNING & PAVEMENT MARKING DESIGN MANUAL.
15. ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 701 OF THE PAG STANDARD SPECIFICATIONS. PAINTING OVER EXISTING STRIPING DOES NOT CONSTITUTE APPROVED STRIPING OBLITERATION. ASPHALT SCARRING AS EVALUATED/DETERMINED BY CITY/TRAFFIC ENGINEER SHALL REQUIRE APPLICATION OF A FOG SEAL CSS-1 AT 0.06 TO 0.08 OF A GALLON PER SQUARE YARD OVER THE REMOVED PAINT STRIPE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STRIPING UNTIL PROJECT IS APPROVED FOR "CONSTRUCTION ACCEPTANCE" BY THE CITY OF TUCSON (FULLY OPEN TO TRAFFIC, ALL PUNCH LIST ITEMS ARE COMPLETED, AND ONE YEAR WARRANTIES BEGIN).
17. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE TRAFFIC ENGINEER BY SWEEPING AND AIR-JET BLOWING IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS.
18. THE PC/COT SIGNING & PAVEMENT MARKING DESIGN MANUAL IS AVAILABLE ONLINE AT https://content.civicplus.com/api/assets/c8d13f95-b46c-446e-97fe-8e5127201983



DT P1 CYCLE TRACK DETAILS
N.T.S.



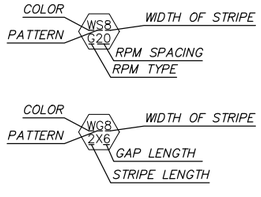
DT P2 GREEN BIKE LANE STRIPING DETAIL
N.T.S



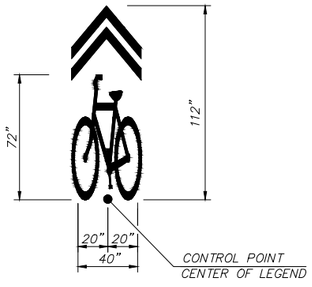
LOOK LEGEND AND ARROW**

** LOOK LEGEND AND ARROW SHALL BE WHITE LETTERS AND SYMBOLS ON 4'X5' BLACK PAINTED BACKGROUND.

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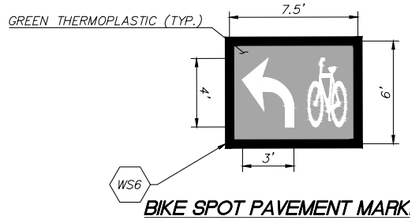


SEE 2020 PC/COT SIGNING & PAVEMENT MARKING DESIGN MANUAL FOR FURTHER DESCRIPTIONS.

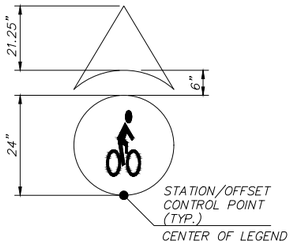


SHARED LANE PAVEMENT MARKING*

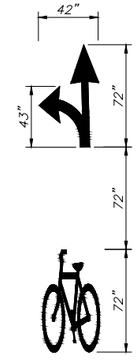
* SHARED LANE MARKINGS SHALL BE COMPOSED OF PERMANENT PREFORMED THERMOPLASTIC THAT HAS BEEN APPROVED BY THE CITY OF TUCSON.



BIKE SPOT PAVEMENT MARKING



BIKE WAYFINDING



BIKE THROUGH/LEFT PAVEMENT MARKING

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
PAVEMENT MARKING GENERAL NOTES

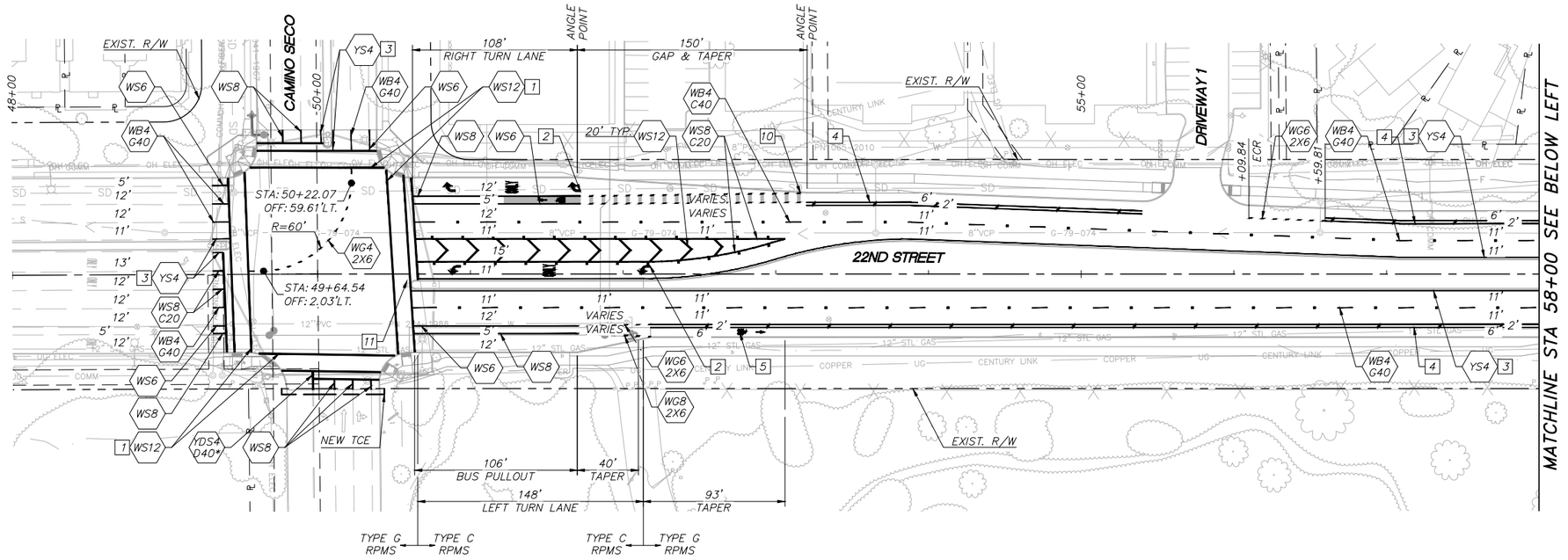
CITY OF TUCSON

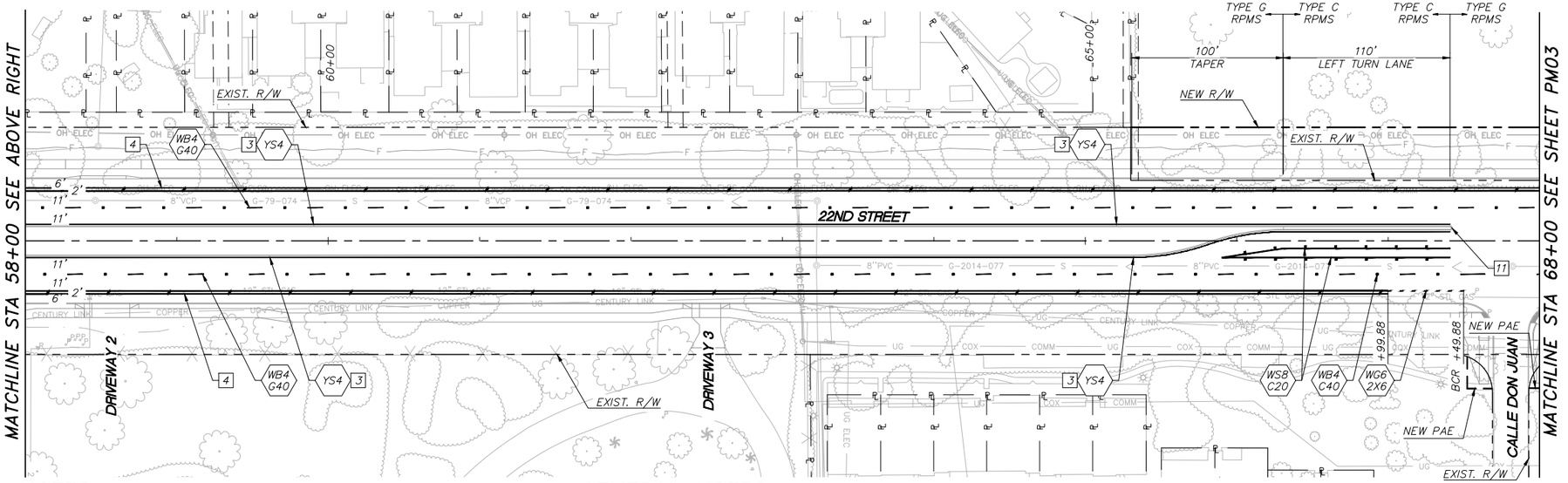
DRWN. BY S. SPIERS AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: N/A V: 1"=4'
PLAN NO. I-2025-004

PM01 OF PM08

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PAVEMENT MARKING NOTES:

1. INSTALL CROSSWALK AND STOP BAR PER SHEET NOS. 3.2.1 AND 3.2.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL. WHEN LADDER LINES PRESENT INSTALL CENTERED IN LANE OR ON LANE STRIPE WITH A MAXIMUM GAP OF 5'.
2. INSTALL NEW PAVEMENT ARROWS AND LEGENDS PER SHEET NOS. 3.2.4 AND 8.1 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.
3. INSTALL MARKING AT 1' FROM FACE OF MEDIAN CURB.
4. INSTALL NEW CYCLE TRACK STRIPING. SEE DETAIL P1 ON SHEET PM01.
5. INSTALL NEW BIKE LANE PAVEMENT LEGENDS PER SHEET NOS. 3.1.4 and 3.2.4 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.
10. INSTALL NEW GREEN BIKE LANE STRIPING, SEE DETAIL ON SHEET PM01.
11. INSTALL MINIMUM 6 TYPE H RPMS MOUNTED ON TOP OF CURB AND MINIMUM 6 TYPE H RPMS MOUNTED ON PAVEMENT PER SHEET NO. 3.3.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING MANUAL.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

*INSTALL DOUBLE RPMs TO DOUBLE YELLOW STRIPES; I.E., YDS4-D40/YSB4-D40
**GREEN MARKINGS SHALL BE PREFORMED THERMOPLASTIC

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
PAVEMENT MARKING PLAN SHEETS - 22ND STREET

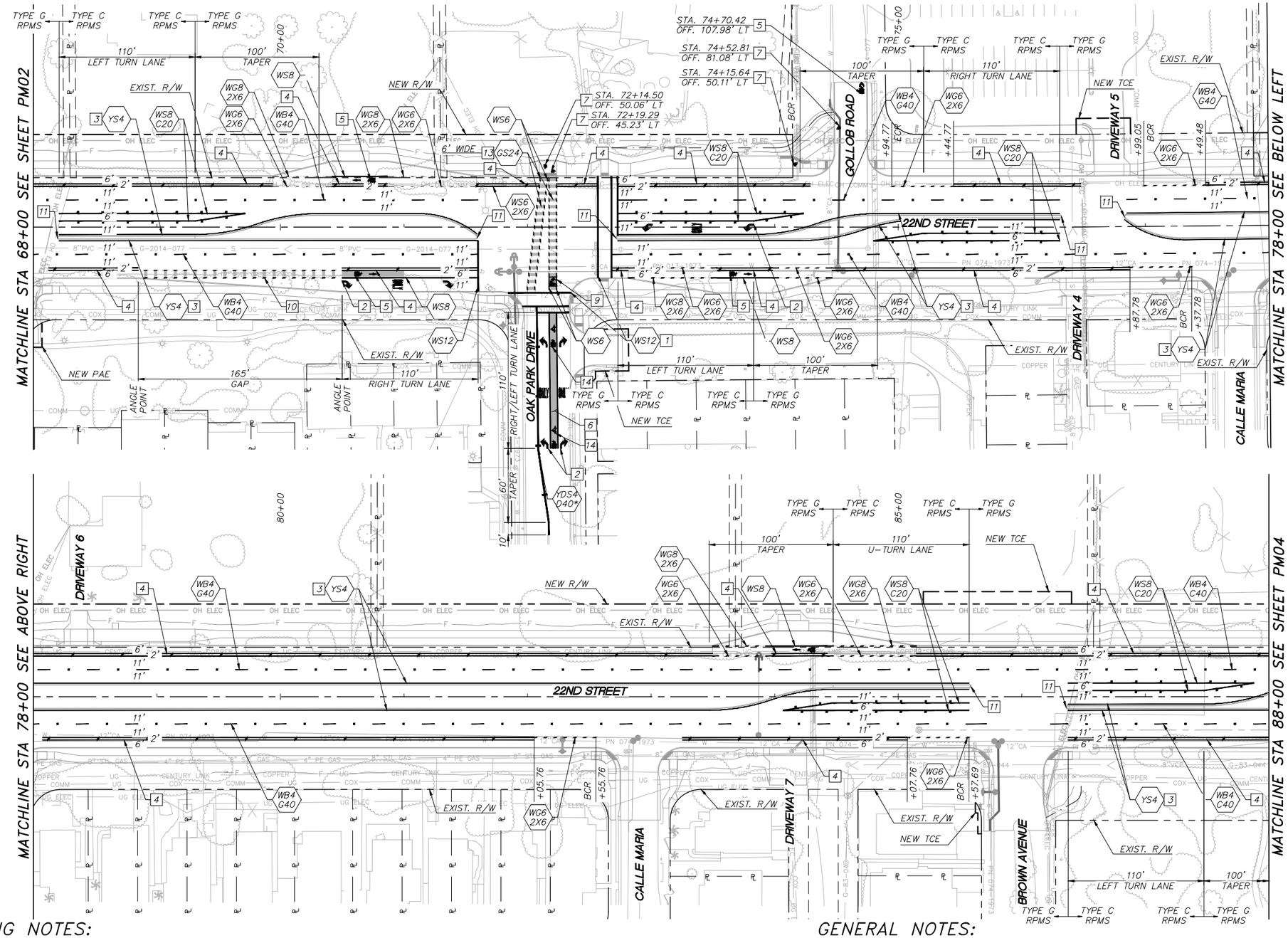
CITY OF TUCSON

DRWN. BY S. SPIERS AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

PM02 OF PM08
119 OF 316

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PAVEMENT MARKING NOTES:

1. INSTALL CROSSWALK AND STOP BAR PER SHEET NOS. 3.2.1 AND 3.2.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL. WHEN LADDER LINES PRESENT INSTALL CENTERED IN LANE OR ON LANE STRIPE WITH A MAXIMUM GAP OF 5'.
2. INSTALL NEW PAVEMENT ARROWS AND LEGENDS PER SHEET NOS. 3.2.4 AND 8.1 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.
3. INSTALL MARKING AT 1' FROM FACE OF MEDIAN CURB.
4. INSTALL NEW CYCLE TRACK STRIPING. SEE DETAIL P1 ON SHEET PM01.
5. INSTALL NEW BIKE LANE PAVEMENT LEGENDS PER SHEET NOS. 3.1.4 and 3.2.4 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.
6. INSTALL GREEN PREFORMED THERMO-PLASTIC.
7. INSTALL NEW BIKE WAYFINDING LEGEND PER SHEET NO. 7.5 OF THE PC/COT SIGNING & PAVEMENT MARKING DESIGN MANUAL. FINAL LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. SEE SHEET PM01 FOR LEGEND DIMENSIONS AND CONTROL POINT.
9. INSTALL NEW BIKE SPOT PAVEMENT MARKING, SEE DETAIL ON SHEET PM01.
10. INSTALL NEW GREEN BIKE LANE STRIPING, SEE DETAIL ON SHEET PM01.
11. INSTALL MINIMUM 6 TYPE H RPMS MOUNTED ON TOP OF CURB AND MINIMUM 6 TYPE H RPMS MOUNTED ON PAVEMENT PER SHEET NO. 3.3.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING MANUAL.
13. INSTALL BIKE LADDER LINES IN CENTER OF LANE OR ON LANE STRIPE WITH A MAXIMUM GAP OF 5'.
14. INSTALL NEW BIKE THROUGH/LEFT PAVEMENT MARKING, SEE DETAIL ON SHEET PM01

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

*INSTALL DOUBLE RPMs TO DOUBLE YELLOW STRIPES; I.E., YDS4-D40/YSB4-D40
**GREEN MARKINGS SHALL BE PREFORMED THERMOPLASTIC

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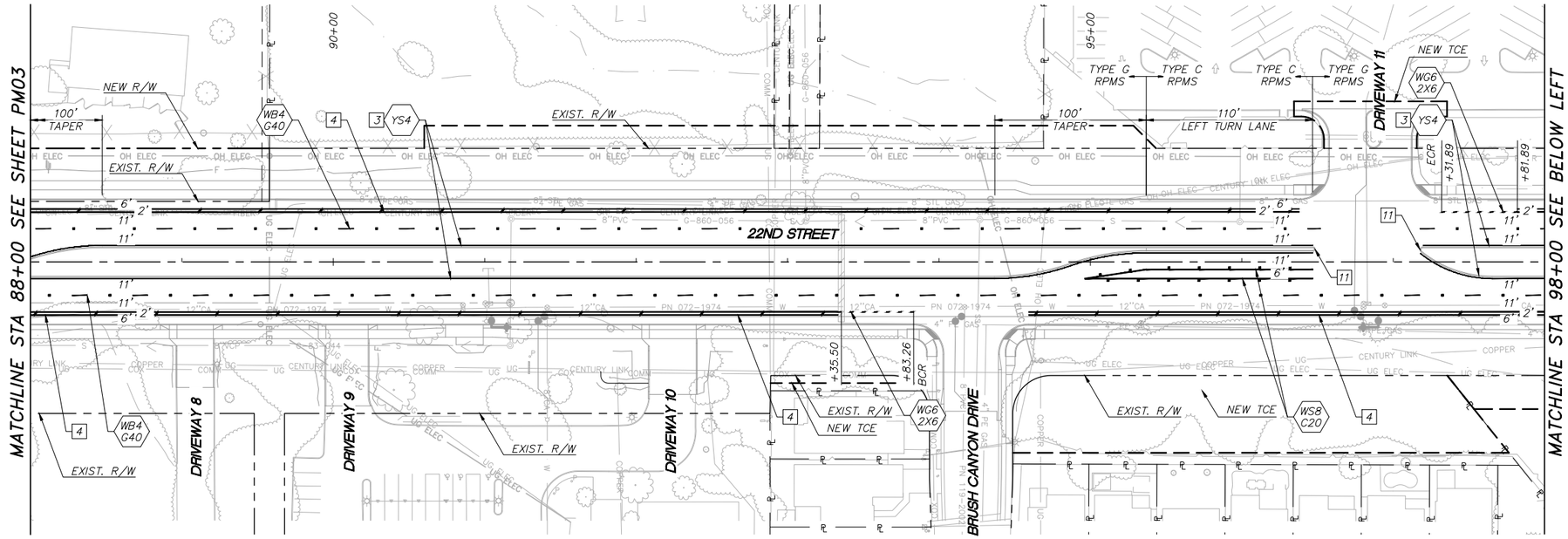
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
PAVEMENT MARKING PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY S. SPIERS AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
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PAVEMENT MARKING NOTES:

1. INSTALL CROSSWALK AND STOP BAR PER SHEET NOS. 3.2.1 AND 3.2.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL. WHEN LADDER LINES PRESENT INSTALL CENTERED IN LANE OR ON LANE STRIPE WITH A MAXIMUM GAP OF 5'.
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11. INSTALL MINIMUM 6 TYPE H RPMS MOUNTED ON TOP OF CURB AND MINIMUM 6 TYPE H RPMS MOUNTED ON PAVEMENT PER SHEET NO. 3.3.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING MANUAL.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

*INSTALL DOUBLE RPMs TO DOUBLE YELLOW STRIPES; I.E., YDS4–D40/YSB4–D40
**GREEN MARKINGS SHALL BE PREFORMED THERMOPLASTIC

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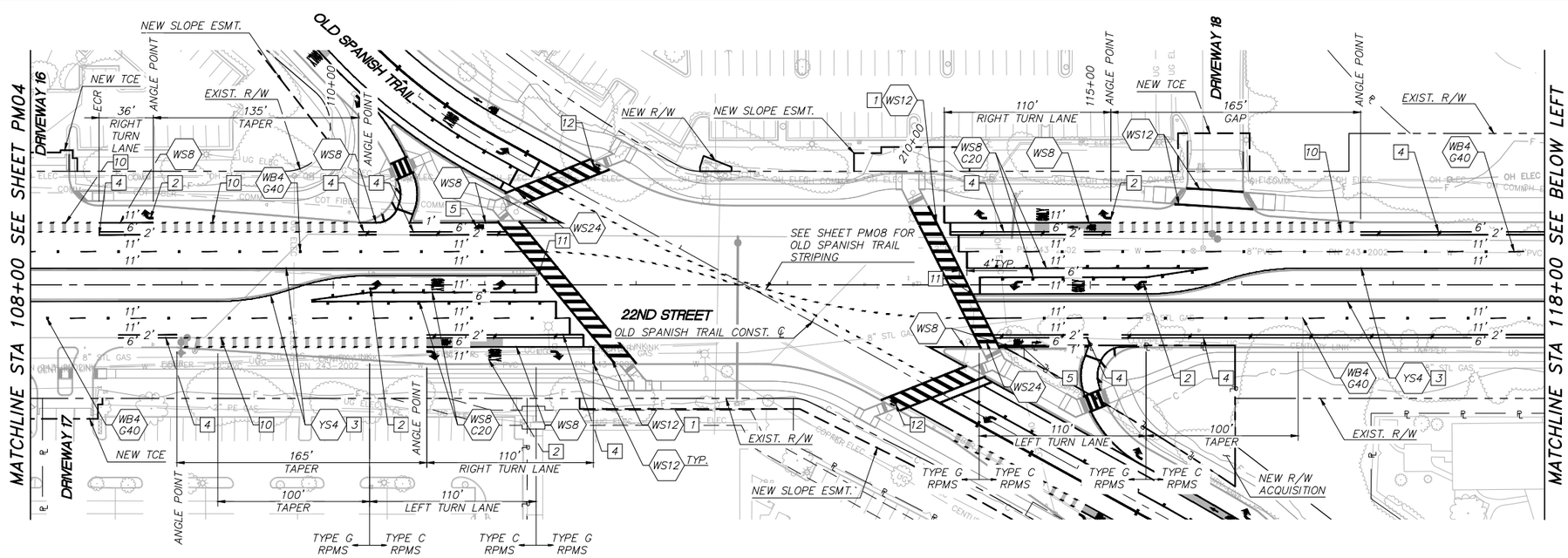
22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
PAVEMENT MARKING PLAN SHEETS – 22ND STREET

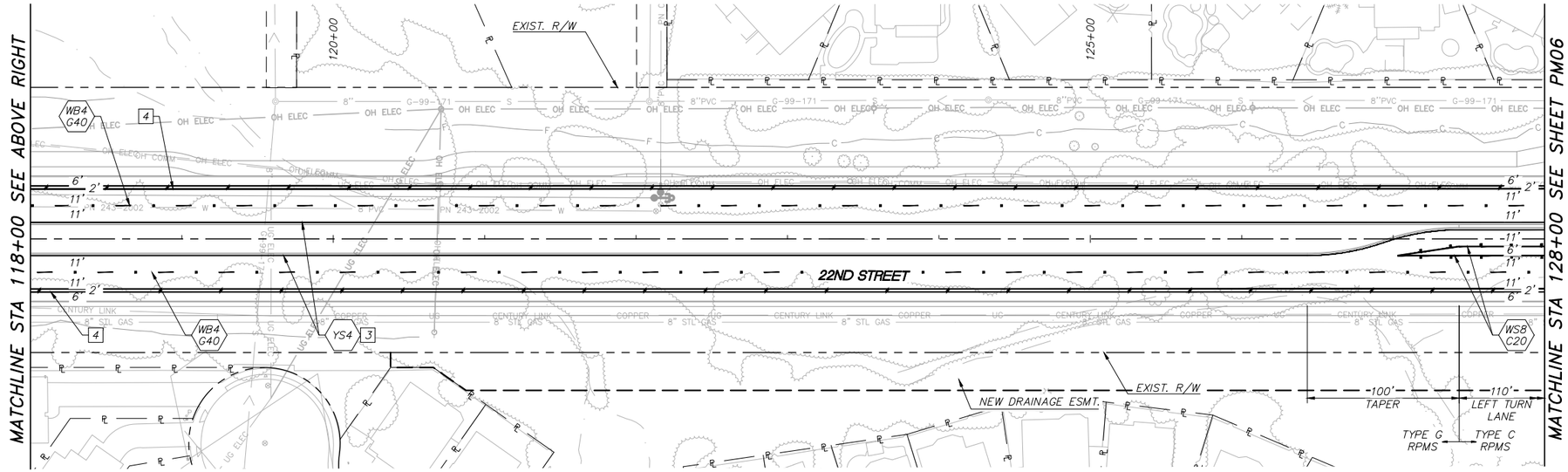
CITY OF TUCSON

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SCALE: H: 1"=40' V: N/A
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PAVEMENT MARKING NOTES:

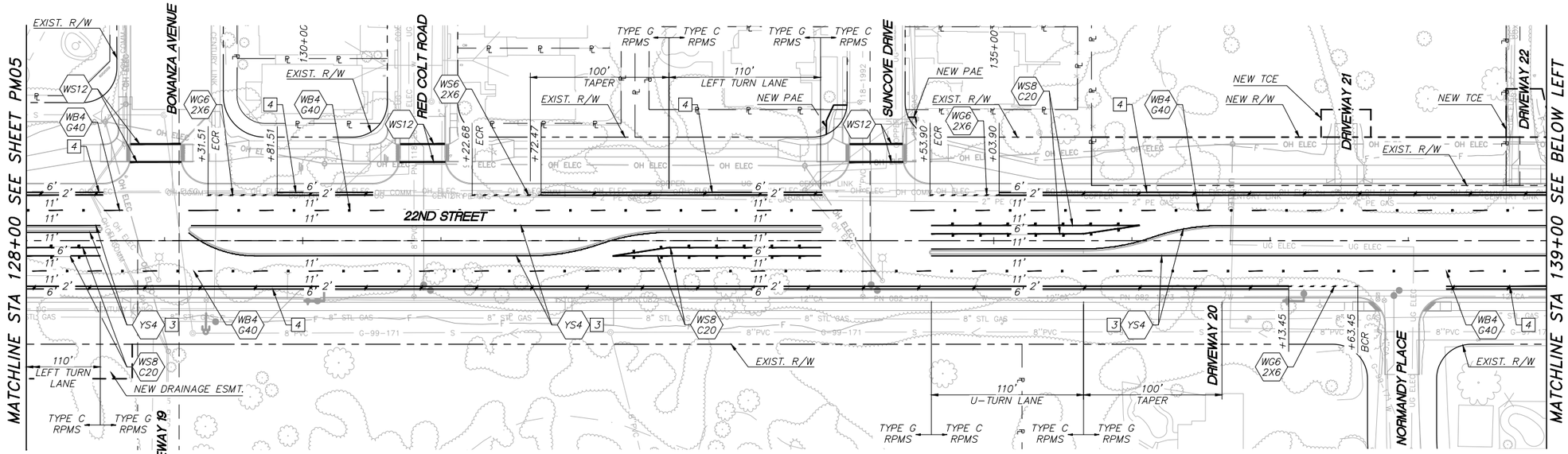
1. INSTALL CROSSWALK AND STOP BAR PER SHEET NOS. 3.2.1 AND 3.2.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL. WHEN LADDER LINES PRESENT INSTALL CENTERED IN LANE OR ON LANE STRIPE WITH A MAXIMUM GAP OF 5'.
2. INSTALL NEW PAVEMENT ARROWS AND LEGENDS PER SHEET NOS. 3.2.4 AND 8.1 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.
3. INSTALL MARKING AT 1' FROM FACE OF MEDIAN CURB.
4. INSTALL NEW CYCLE TRACK STRIPING. SEE DETAIL P1 ON SHEET PM01.
5. INSTALL NEW BIKE LANE PAVEMENT LEGENDS PER SHEET NOS. 3.1.4 and 3.2.4 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.
10. INSTALL NEW GREEN BIKE LANE STRIPING, SEE DETAIL ON SHEET PM01.
11. INSTALL MINIMUM 6 TYPE H RPMS MOUNTED ON TOP OF CURB AND MINIMUM 6 TYPE H RPMS MOUNTED ON PAVEMENT PER SHEET NO. 3.3.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING MANUAL.
12. INSTALL NEW LOOK LEGEND AND ARROW 1' FROM THE BACK OF CURB ACCESS RAMP TO THE TOP OF THE LEGEND PER LOOK LEGEND AND ARROW DETAIL ON SHEET PM01.

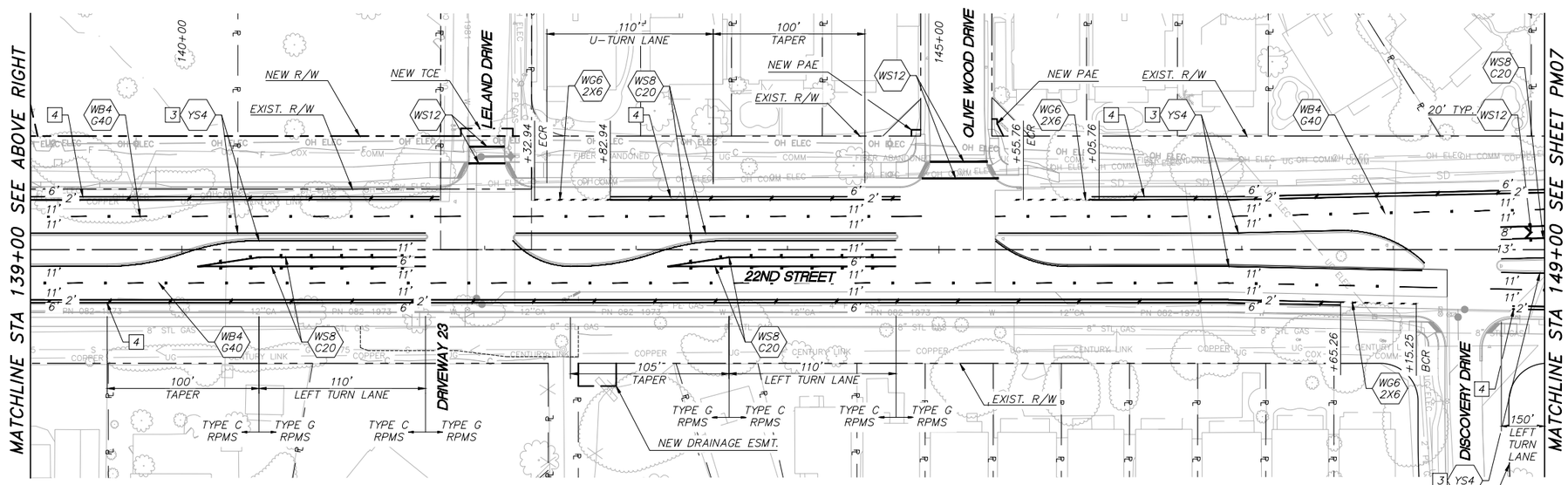
GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

*INSTALL DOUBLE RPMs TO DOUBLE YELLOW STRIPES; I.E., YDS4–D40/YSB4–D40
**GREEN MARKINGS SHALL BE PREFORMED THERMOPLASTIC

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PAVEMENT MARKING NOTES:

3 INSTALL MARKING AT 1' FROM FACE OF MEDIAN CURB.

4 INSTALL NEW CYCLE TRACK STRIPING. SEE DETAIL P1 ON SHEET PM01.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

*INSTALL DOUBLE RPMs TO DOUBLE YELLOW STRIPES; I.E., YDS4-D40/YSB4-D40
**GREEN MARKINGS SHALL BE PREFORMED THERMOPLASTIC

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
PAVEMENT MARKING PLAN SHEETS - 22ND STREET

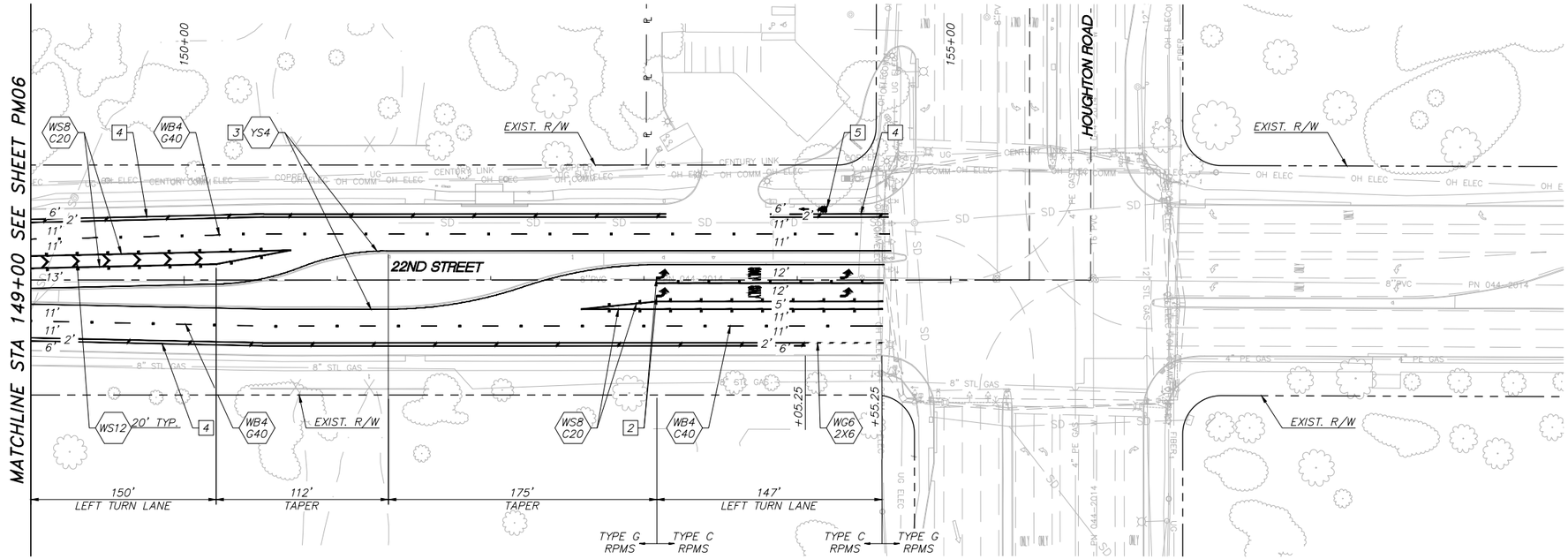
CITY OF TUCSON

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CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

PM06 OF PM08

123 OF 316

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PAVEMENT MARKING NOTES:

2 INSTALL NEW PAVEMENT ARROWS AND LEGENDS PER SHEET NOS. 3.2.4 AND 8.1 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.

3 INSTALL MARKING AT 1' FROM FACE OF MEDIAN CURB.

4 INSTALL NEW CYCLE TRACK STRIPING. SEE DETAIL P1 ON SHEET PM01.

5 INSTALL NEW BIKE LANE PAVEMENT LEGENDS PER SHEET NOS. 3.1.4 and 3.2.4 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.

GENERAL NOTES:

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**GREEN MARKINGS SHALL BE PREFORMED THERMOPLASTIC

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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
PAVEMENT MARKING PLAN SHEETS – 22ND STREET

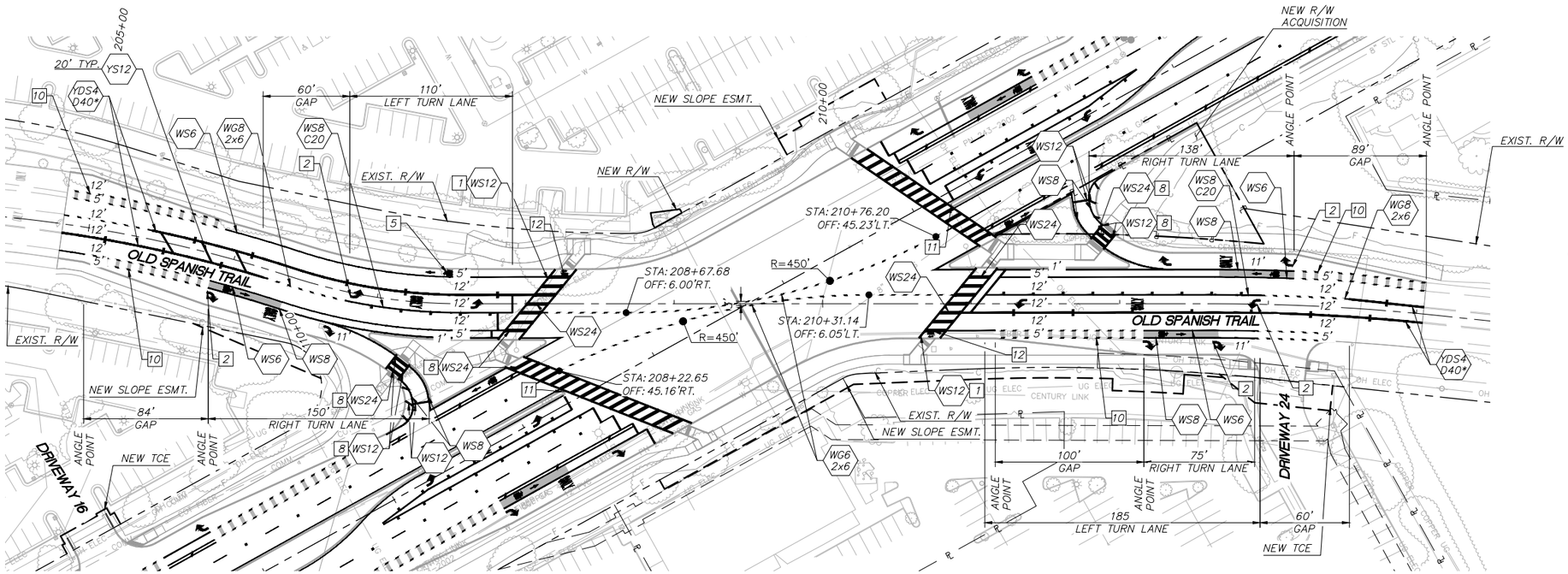
CITY OF TUCSON

DRWN. BY S. SPIERS AUG 20 25
CHKD. BY D. BACON AUG 20 25
APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

PM07 OF PM08

124 OF 316

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PAVEMENT MARKING NOTES:

1. INSTALL CROSSWALK AND STOP BAR PER SHEET NOS. 3.2.1 AND 3.2.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL. WHEN LADDER LINES PRESENT INSTALL CENTERED IN LANE OR ON LANE STRIPE WITH A MAXIMUM GAP OF 5'.
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4. INSTALL NEW CYCLE TRACK STRIPING. SEE DETAIL P1 ON SHEET PM01.
5. INSTALL NEW BIKE LANE PAVEMENT LEGENDS PER SHEET NOS. 3.1.4 and 3.2.4 OF THE PC/COT SIGNING AND PAVEMENT MARKING DESIGN MANUAL.
8. INSTALL CROSSWALK PER SHEET NOS. 3.2.1 OF THE PC/COT SIGNING & PAVEMENT MARKING DESIGN MANUAL. WHEN LADDER LINES PRESENT INSTALL CENTERED IN LANE OR ON LANE STRIPE WITH A MAXIMUM GAP OF 5'.
10. INSTALL NEW GREEN BIKE LANE STRIPING, SEE DETAIL ON SHEET PM01.
11. INSTALL MINIMUM 6 TYPE H RPMS MOUNTED ON TOP OF CURB AND MINIMUM 6 TYPE H RPMS MOUNTED ON PAVEMENT PER SHEET NO. 3.3.2 OF THE PC/COT SIGNING AND PAVEMENT MARKING MANUAL.
12. INSTALL NEW LOOK LEGEND AND ARROW 1' FROM THE BACK OF CURB ACCESS RAMP TO THE TOP OF THE LEGEND PER SHEET PM01.

GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE 22ND STREET CONST. CENTERLINE.

*INSTALL DOUBLE RPMs TO DOUBLE YELLOW STRIPES; I.E., YDS4-D40/YSB4-D40
**GREEN MARKINGS SHALL BE PREFORMED THERMOPLASTIC

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
PAVEMENT MARKING PLAN SHEETS - OLD SPANISH TRAIL

CITY OF TUCSON

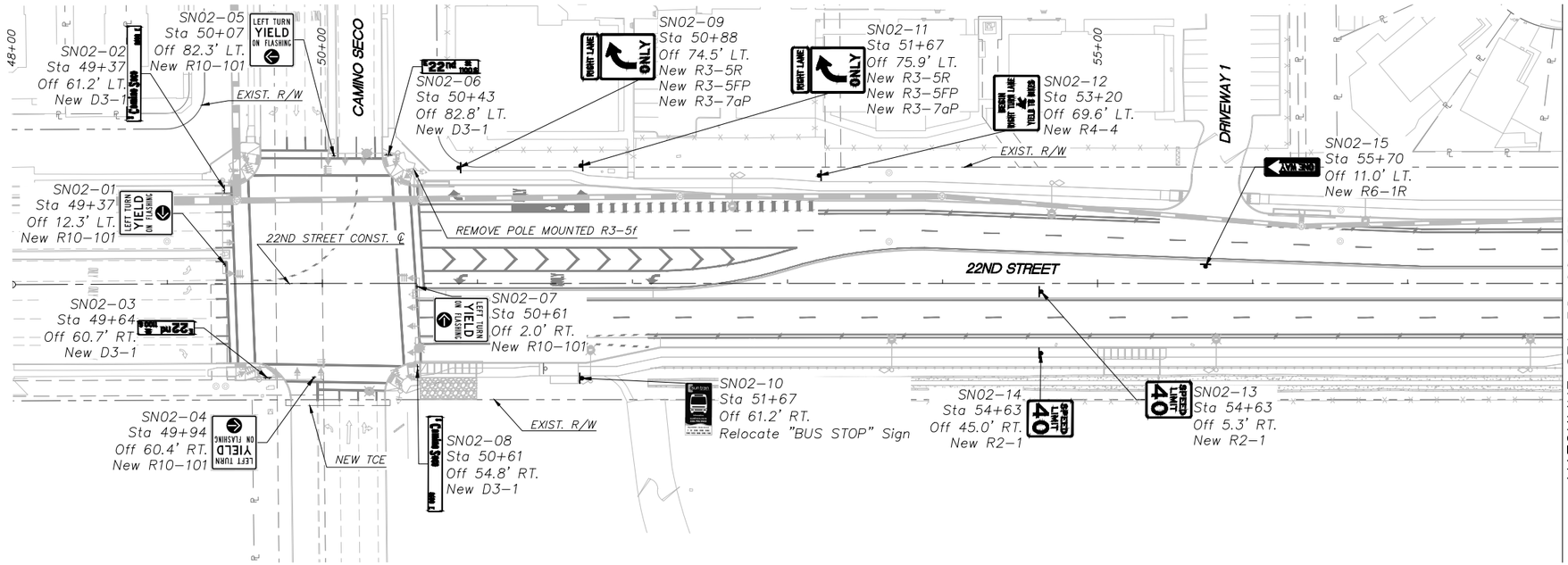
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APPR. BY T. RHINE AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

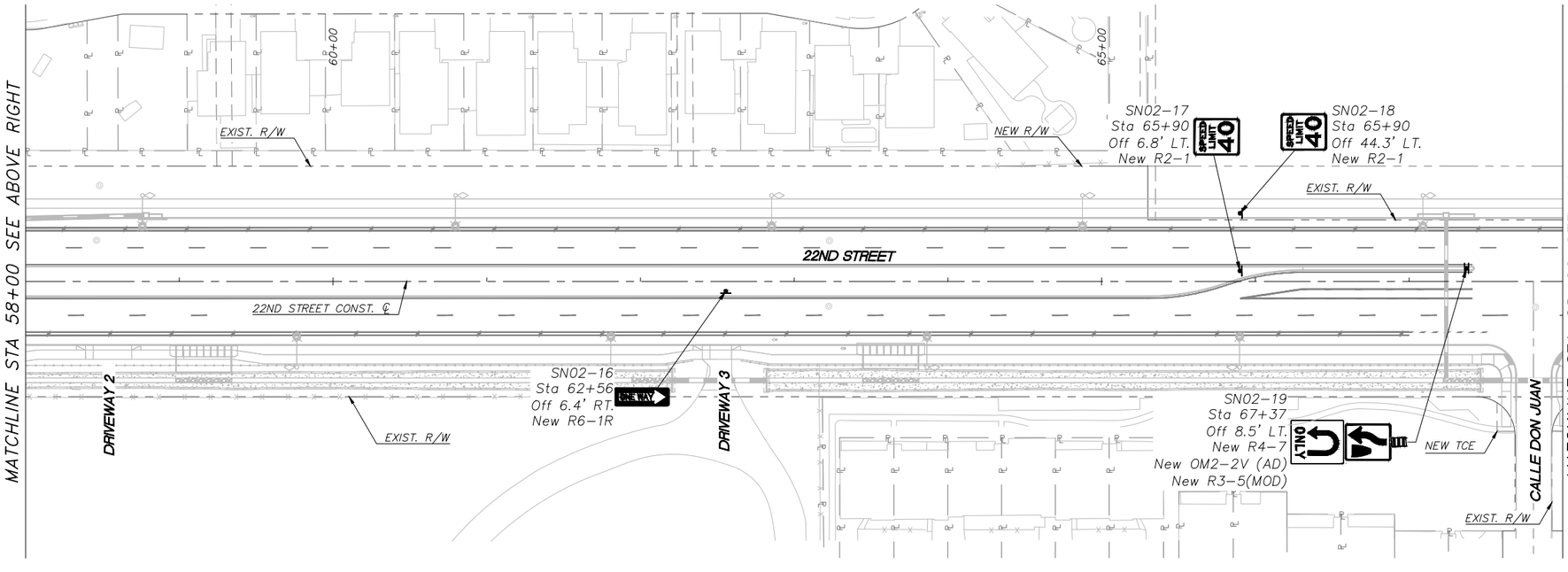
SIGNING GENERAL NOTES:

1. All signs shall be in compliance with the 2009 Edition of the Manual on Uniform Traffic Control Devices with the Arizona Supplement, the 2020 Edition of the Pima County and City of Tucson Traffic Signing & Pavement Marking Manual, the Special Provisions, and the plans.
2. Signs may be modified and locations adjusted to fit conditions as directed by the City of Tucson Traffic Engineer or Designee.
3. Post lengths indicated on sign summary sheets are approximate. The contractor shall verify actual post lengths.
4. All new and existing signs shall be installed on perforated posts (square tube) and shall be installed in a concrete foundation, unless otherwise directed by the Traffic Engineer or Designee.
5. Utility locations shown on the plans are approximate. The contractor shall be responsible for verifying utility locations prior to construction. Should utility conflicts be found with the new sign locations, the contractor shall contact the traffic engineer prior to installation of the sign.
6. All warning sign panels shall be fluorescent yellow ASTM Type XI or equivalent sheeting. All school zone signs shall be fluorescent yellow–green ASTM Type XI or equivalent sheeting. All street name signs and overhead mounted panels shall be ASTM Type XI sheeting. All other sign panels shall have High Intensity Prismatic Type IV sheeting.
7. All new signs shall have 0.080 gauge, radius corner, aluminum backing unless otherwise noted.
8. All existing signs whose messages or locations are in conflict with new or proposed signs shall be removed and salvaged unless specifically called out to remain on the signing and marking plan sheets. In particular, all of the following signs shall be removed: "BIKE ROUTE"(D11–1), "TWO WAY LEFT TURN ONLY" (R9–3b), "NO TURNS" (R3–3), "NO U–TURNS" (R3–4), and "DIVIDED HIGHWAY" (W6–1).
9. All existing signs to be removed as part of this project are to be delivered to the City of Tucson Sign Shop at 4004 S. Park, (520) 791–3154. The contractor is responsible for unloading the salvaged material. Any salvaged sign that is to be reused shall be temporarily stored in a safe location until reinstallation.
10. Removal shall be in accordance with Section 202–3.06 of the 2015 PAG Standard Specifications for Public Improvements.
11. Final inspection/acceptance of signing shall be performed by the jurisdiction Traffic Engineer or Designee.
12. The Posted Speed limit for the road(s) is 40 mph for 22nd Street and 30 mph for Old Spanish Trail. Sign placement shall be based on the posted speed limit.
13. Signs may be modified and locations adjusted to fit conditions as directed by the Traffic Engineer.
14. All perforated posts shall be installed in a concrete foundation, unless otherwise directed by the City of Tucson Traffic Engineer.
15. The Contractor shall be responsible for coordinating all work with Arizona 811 for installing all traffic signs in the field and for maintaining all signing until project is approved for "Construction Acceptance" by City of Tucson (fully open to traffic, all punch list items are completed, and one year warranties begin).
16. A 3"x2" pressure sensitive, UV resistant label indicating the sign manufacturer's name and date of manufacture shall be placed in the upper right corner of the back of all signs, except for street name signs. At the time of installation, street name signs shall include a sign identification decal as described within Pima County Signing and Marking Standards Detail 6.1.1.
17. Prior to disturbing any traffic signs, a sign condition inventory of all existing signing shall be conducted by the Contractor and provided to the City of Tucson Sign Shop Supervisor (520) 791–3154. Inventory shall indicate current sign location and condition including any existing damage or deficiencies.
18. Any signs and posts being re–used on this project shall be stockpiled in a manner to avoid damage and maintain the integrity of the signs. Safe storage of stockpile and payment of damage to the stockpile shall be the responsibility of the Contractor.
19. Any Signs not being re–used on this project shall be dismantled, stacked and delivered to the owner (City of Tucson) by the Contractor. The Contractor is responsible for the safe storage at the construction site until delivery and the safe unloading of the salvaged material. Notification of delivery shall be made at least 2 working days prior to delivery, City of Tucson Sign Shop, 4004 S. Park (520) 791–3154.
20. New signs on new posts shall be installed with an offset per Sheet No. 5.2.1 through 5.2.9 of the City of Tucson and Pima County Signing and Pavement Marking Manual.
21. All new street name signs (D3–1) shall be designed per the City of Tucson Street Name Sign Layouts for Unsignalized Intersection, see Special Provisions.
22. Submit street name signs to Traffic Engineering, Greg Orsini (520) 268–5036 (gregory.orsini@tucsonaz.gov), for approval prior to fabrication.

APPROXIMATE SIGNING QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY
Remove and Salvage Sign Panel	EA	127
Remove Sign, Post, and Foundation	EA	63
Foundation for Sign Post (Perforated)	EA	138
Remove and Relocate Sign	EA	3
Foundation for Sign Post (Perforated)	EA	138
Metro Sign	EA	15
Flat Sheet Aluminum Sign Panel (Type XI)	SF	391
Flat Sheet Aluminum Sign Panel (Type IV)	SF	883
Object Marker (OM2-2V)	EA	27

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SIGNING NOTES:

1. All existing signs not shown on these plans shall be removed and salvaged.

KITTELSON & ASSOCIATES

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

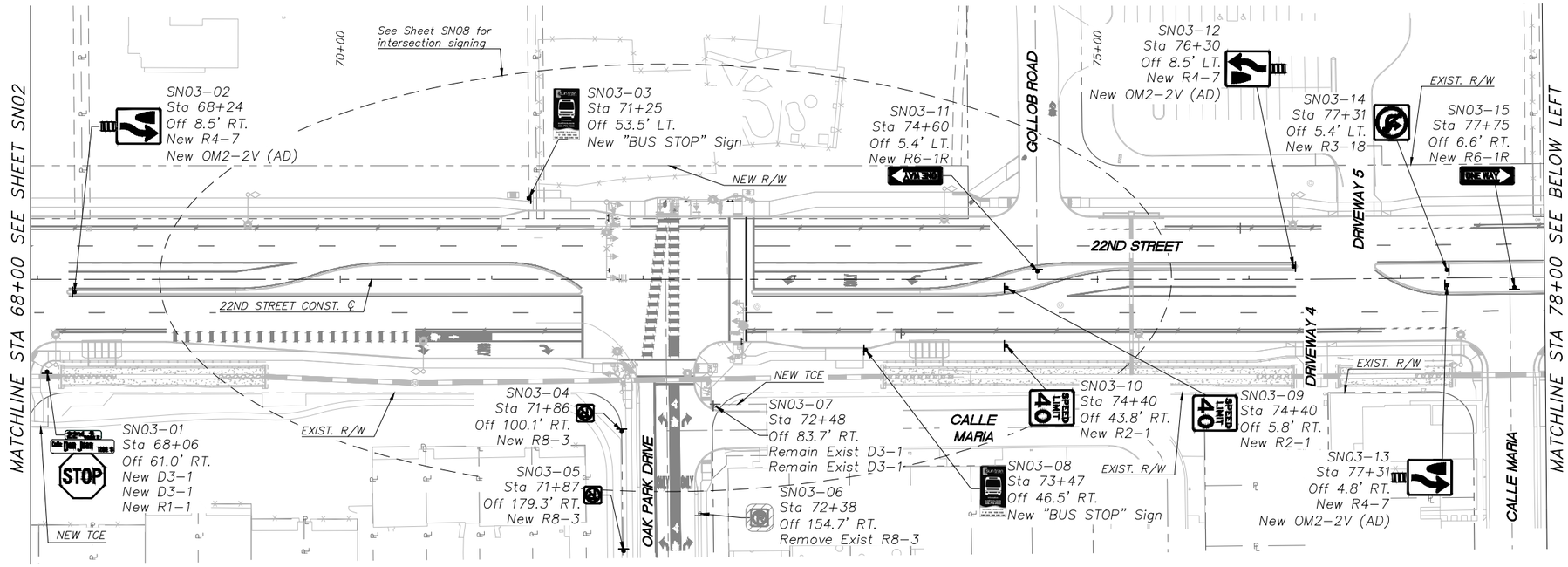
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

SN02 OF SN25
127 OF 316

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SIGNING NOTES:

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KITTELSON & ASSOCIATES

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

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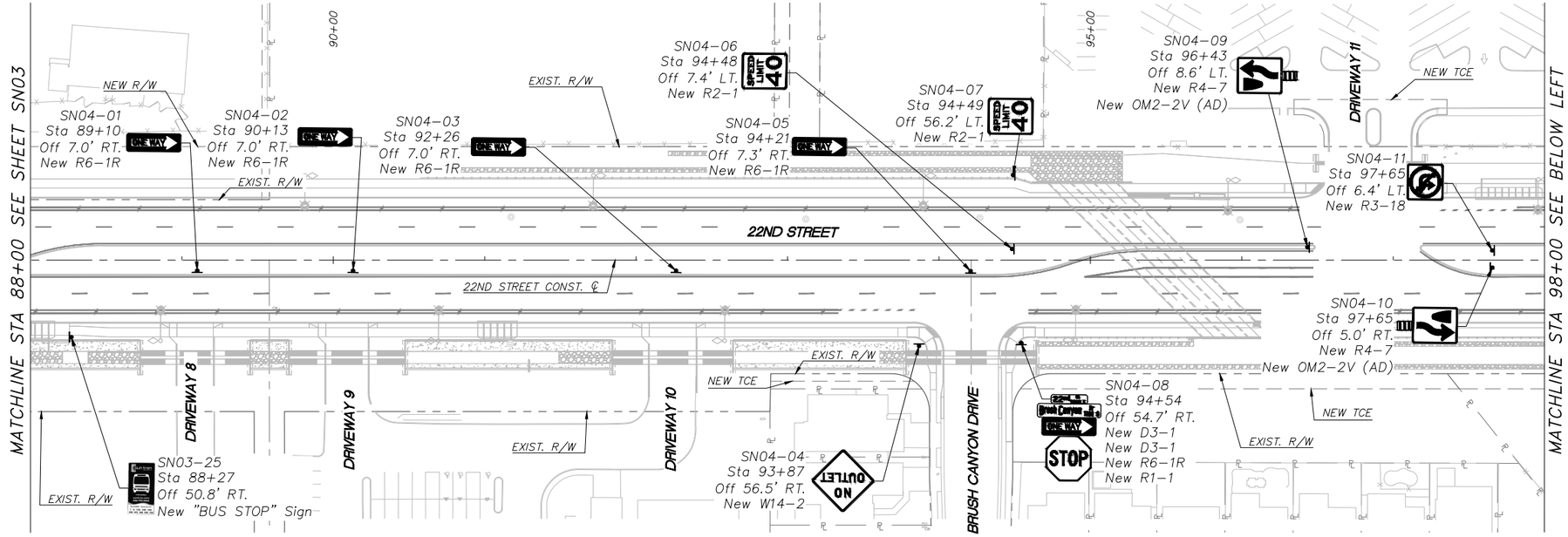
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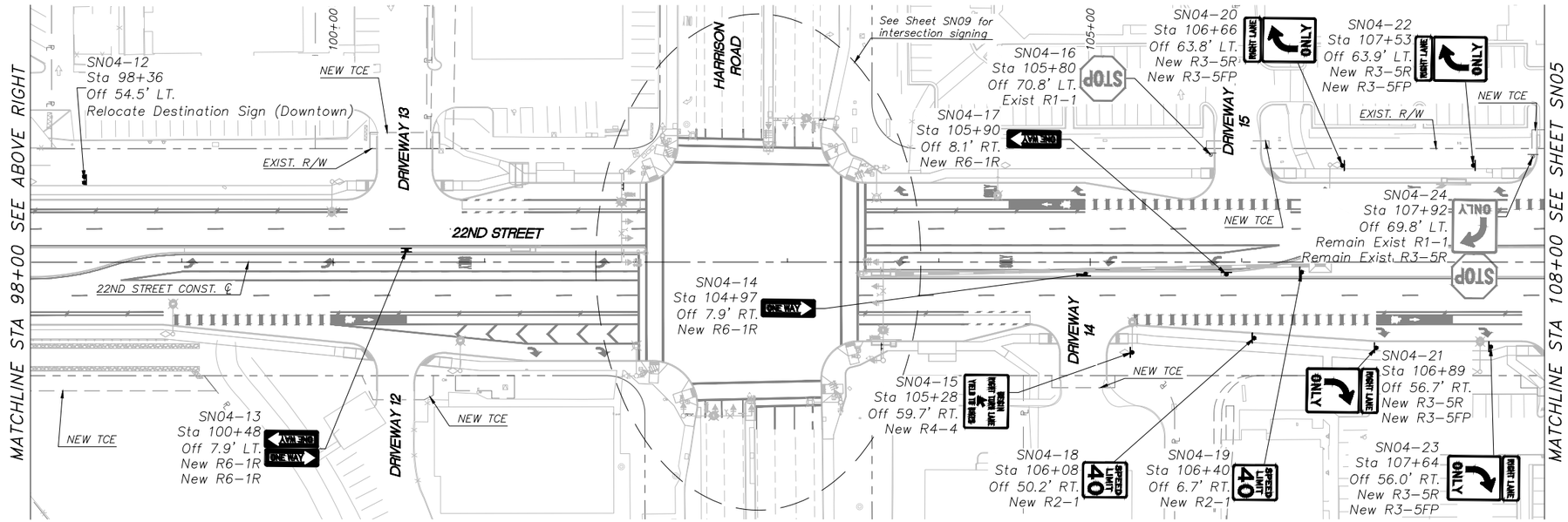
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SN03 OF SN25

128 OF 316

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SIGNING NOTES:

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KITTELSON & ASSOCIATES

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

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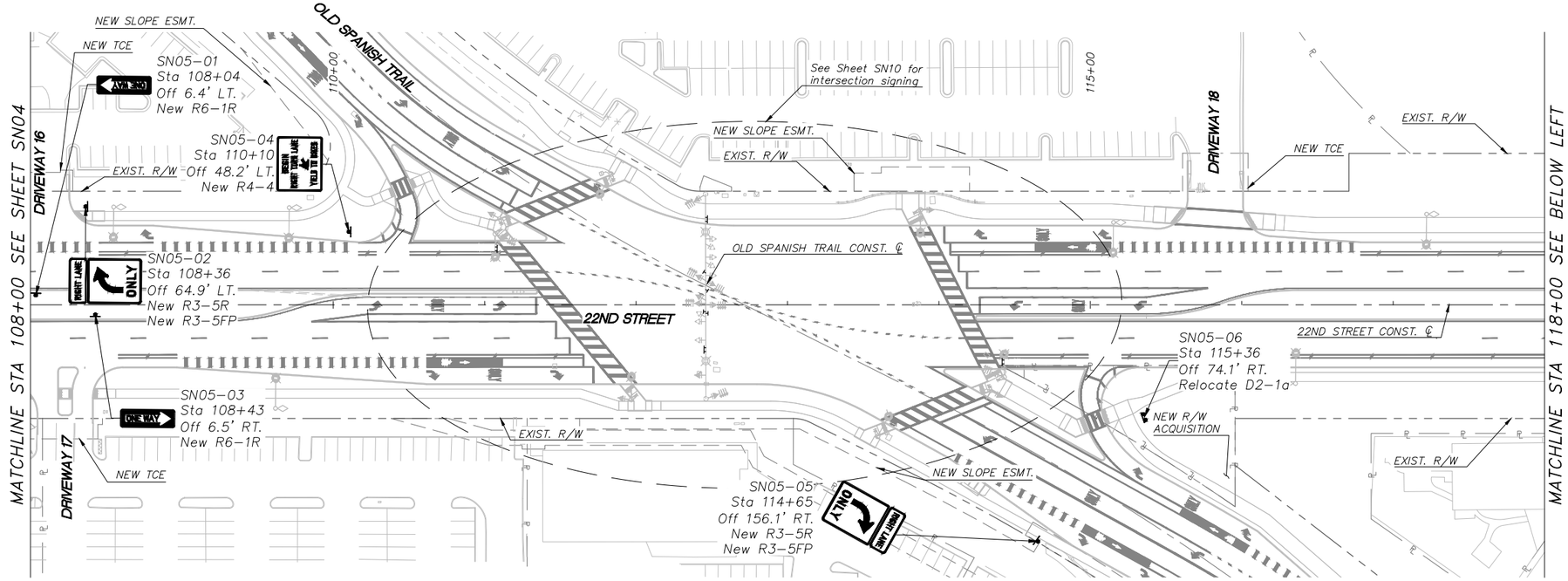
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PLAN NO. I-2025-004

SN04 OF SN25

129 OF 316

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SIGNING NOTES:

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KITTELSON & ASSOCIATES

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

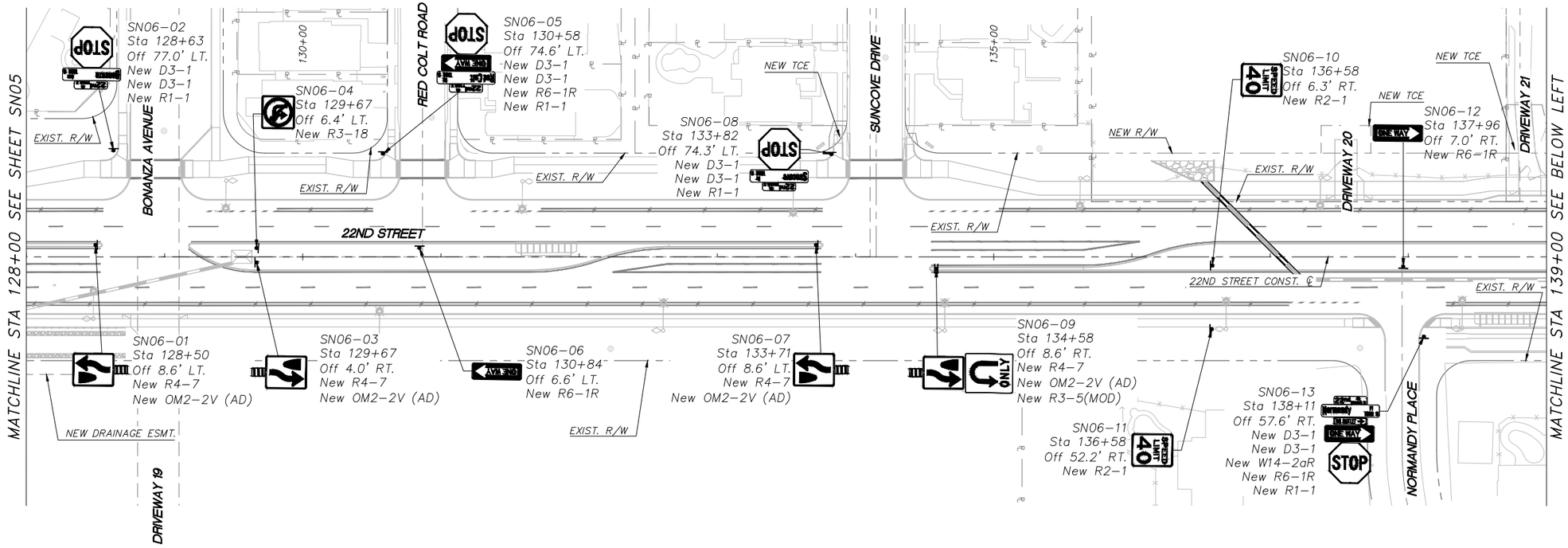
CITY OF TUCSON

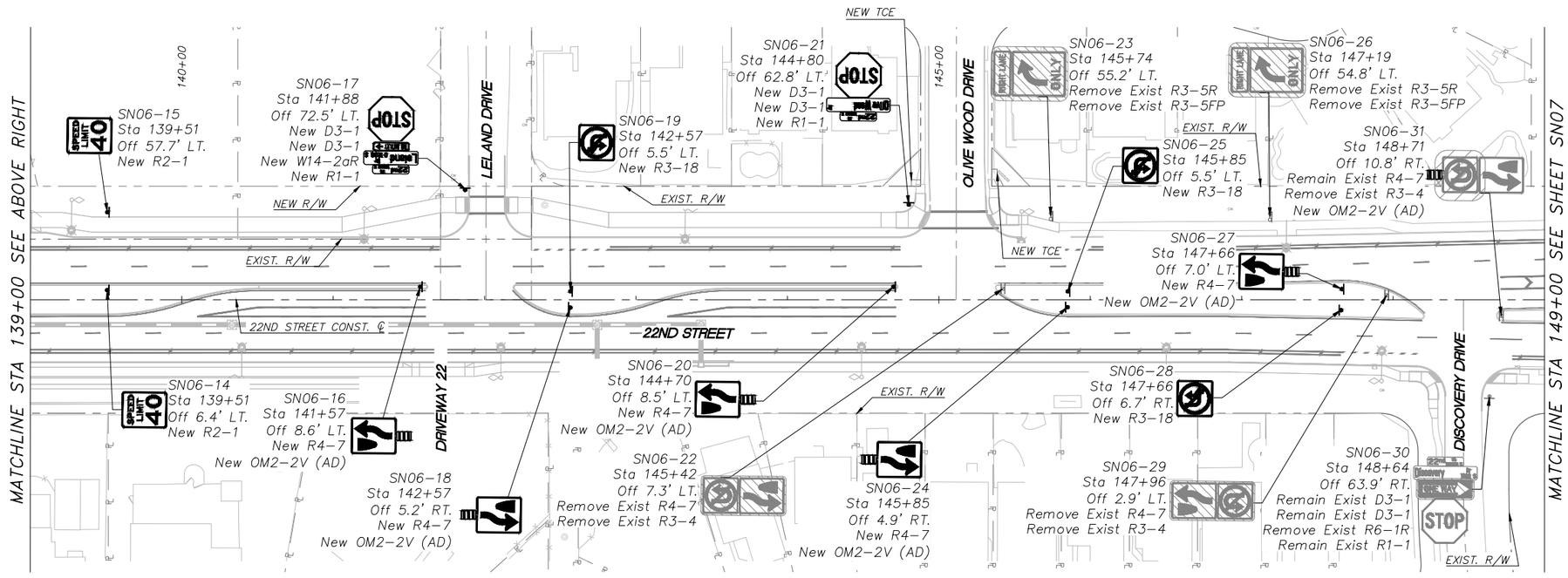
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PLAN NO. I-2025-004

SN05 OF SN25

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SIGNING NOTES:

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

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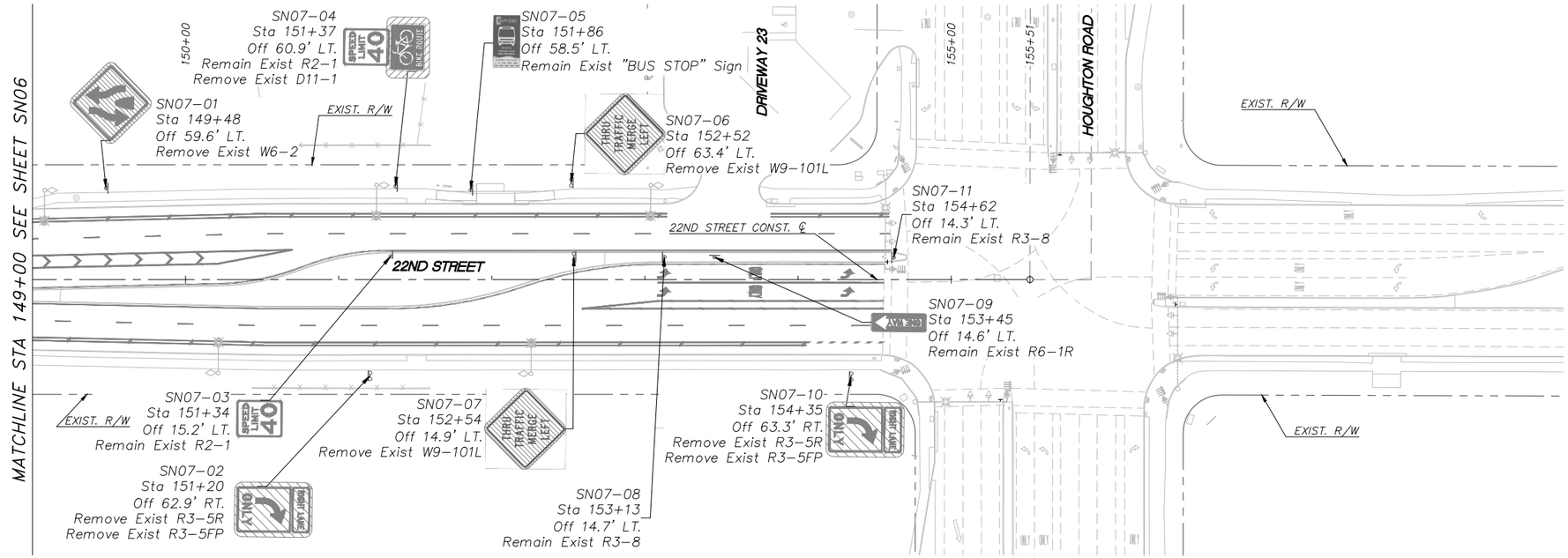
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PLAN NO. I-2025-004

SN06 OF SN25

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SIGNING NOTES:

1. All existing signs not shown on these plans shall be removed and salvaged.

NO.	DATE	REVISION	BY	CHKD.	APPR.

KITTELSON & ASSOCIATES

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25 | CHKD. BY BDH AUG 20 25 | APPR. BY FLG AUG 20 25

SCALE: H: 1"=40' V: N/A

PLAN NO. I-2025-004

SN07 OF SN25

132 OF 316

H:\29\29830 – 22nd Street – Camino Seco to Houghton\design_CD\CD–29830–SIGNING.dwg Aug 21, 2025 csaddena
xrefs: x134220ltr x134220sheetcvrs x134220tpo gutdesign–marking x134220tbg x134220tpo gutdesign–marking x134220tmsx x134220tpo x134220ult–n x134220ult–e x134220int x134220drn x134220drn x134220drn–n

SN08–11
Sta 72+15
Off 51.1' LT.
New R10–101

SN08–12
Sta 72+20
Off 57.9' LT.
New BB–2

SN08–13
Sta 72+28
Off 56.4' LT.
New BB–1
New R9–6(MOD)

SN08–14
Sta 72+29
Off 51.1' LT.
New R3–8xa

SN08–22
Sta 74+42
Off 113.8' LT.
New BB–3

SN08–09
Sta 71+77
Off 40.4' LT.
New D3–1

SN08–06
Sta 71+76
Off 51.0' LT.
New R9–3a
New R9–3bPL

SN08–21
Sta 74+22
Off 70.0' LT.
New R9–6(MOD)

NEW R/W

70+00

75+00

GOLLOB ROAD

SN08–08
Sta 71+77
Off 5.9' LT.
New R10–101

SN08–18
Sta 72+57
Off 51.4' LT.
New D3–1

SN08–03
Sta 71+12
Off 5.0' LT.
New R4–7
New OM2–2V (AD)

SN08–20
Sta 72+76
Off 8.5' RT.
New R4–7
New OM2–2V (AD)

22ND STREET

22ND STREET CONST. ℄

SN08–04
Sta 71+12
Off 6.4' RT.
New R3–18

SN08–23
Sta 74+42
Off 56.5' LT.
New D3–1
New D3–1
New R6–1R
New R1–1

SN08–01
Sta 68+85
Off 44.5' RT.
New R4–4

SN08–19
Sta 72+65
Off 41.1' RT.
New D3–1

EXIST. R/W

SN08–02
Sta 70+44
Off 61.1' RT.
New R3–5R
New R3–5FP

SN08–05
Sta 71+40
Off 61.1' RT.
New R3–5R
New R3–5FP

CALLE MARIA

NEW TCE

SN08–07
Sta 71+72
Off 64.0' RT.
New R9–3a
New R9–3bPL

SN08–15
Sta 72+38
Off 174.4' RT.
New BB–3

SN08–16
Sta 72+38
Off 207.9' RT.
New R3–8xa
New R8–3

SN08–10
Sta 71+96
Off 244.3' RT.
Remain Exist R2–1

SN08–17
Sta 72+38
Off 240.4' RT.
Remain Exist R8–3(MOD)

OAK PARK DRIVE

0 20' 40'
SCALE: 1"=20'

SIGNING NOTES:

1. All existing signs not shown on these plans shall be removed and salvaged.

NO.	DATE	REVISION	BY	CHKD.	APPR.

KITTELSON & ASSOCIATES

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25 | CHKD. BY BDH AUG 20 25 | APPR. BY FLG AUG 20 25

SCALE: H: 1"=20' V: N/A

PLAN NO. I-2025-004

SN08 OF SN25

133 OF 316

H:\29\38830 – 22nd Street – Camino Seco to Houghton\design_CD\CD–29830–SIGNING.dwg Aug 21, 2025 osaldana
XREFs: x134220ref x134220wetcutx MK–29830–SIGN x134220tpo galdeleyr–working x134220dig x134220pmo x134220mss x134220tpo x134220ult–n x134220ult–e x134220ult–s x134220ult–w x134220ult–e x134220ult–n x134220tpo x134220mss x134220pmo x134220dig

DRIVEWAY 24

HARRISON ROAD

DRIVEWAY 26

SN09–11
Sta 102+87
Off 81.0' LT.
New R4–7
New OM2–2V (AD)

SN09–12
Sta 102+93
Off 93.6' LT.
New R10–101

SN09–06
Sta 101+92
Off 49.8' LT.
New D3–1

SN09–13
Sta 103+23
Off 93.8' LT.
New D3–1

SN09–19
Sta 104+86
Off 63.5' LT.
New R3–5R
New R3–5FP

SN09–05
Sta 101+92
Off 5.8' LT.
New R10–101

SN09–17
Sta 103+63
Off 63.2' LT.
New R3–5R
New R3–5FP

SN09–03
Sta 101+31
Off 60.3' LT.
New "BUS STOP" Sign

SN09–20
Sta 105+62
Off 48.9' LT.
New R4–4

100+00

105+00

DRIVEWAY 15

NEW TCE

EXIST. R/W

DRIVEWAY 13

SN09–07
Sta 102+02
Off 8.1' LT.
New R4–7
New OM2–2V (AD)

SN09–15
Sta 103+62
Off 6.0' RT.
New R10–101

SN09–14
Sta 103+51
Off 8.1' RT.
New R4–7
New OM2–2V (AD)

22ND STREET CONST. ℄

22ND STREET

SN09–08
Sta 102+35
Off 100.4' RT.
New D3–1

NEW TCE

EXIST. R/W

SN09–02
Sta 100+84
Off 71.8' RT.
New R3–5R
New R3–5FP

SN09–04
Sta 101+85
Off 75.0' RT.
New R3–5R
New R3–5FP

DRIVEWAY 12

DRIVEWAY 14

SN09–01
Sta 99+40
Off 60.1' RT.
New R4–4

SN09–09
Sta 102+70
Off 100.0' RT.
New R10–101

SN09–16
Sta 103+62
Off 55.9' RT.
New D3–1

SN09–18
Sta 104+17
Off 59.9' RT.
New "BUS STOP" Sign

SN09–10
Sta 102+75
Off 95.3' RT.
New R4–7
New OM2–2V (AD)

DRIVEWAY 25

0 20' 40'
SCALE: 1"=20'

SIGNING NOTES:

1. All existing signs not shown on these plans shall be removed and salvaged.

KITTELSON & ASSOCIATES

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PRELIMINARY
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NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

SN09 OF SN25
134 OF 316

H:\29\29830 – 22nd Street – Camino Seco to Houghton\design_CD\CD-29830–SIGNING.dwg Aug 21, 2025 osebdeno
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SN10–04
Sta 109+34
Off 287.2' LT.
Remain Exist R3–5R(MOD)

SN10–07
Sta 110+22
Off 196.8' LT.
Remain Exist R4–4

SN10–02
Sta 108+91
Off 228.4' LT.
New R4–4

SN10–06
Sta 110+03
Off 108.9' LT.
New R3–5R
New R3–5FP

SN10–10
Sta 110+48
Off 89.5' LT.
New W11–2R
New W16–7PR

SN10–24
Sta 112+69
Off 54.5' LT.
New R10–15R

SN10–22
Sta 112+47
Off 56.4' LT.
New D3–1

SN10–26
Sta 114+18
Off 56.5' LT.
New R3–5R
New R3–5FP

SN10–34
Sta 115+35
Off 67.5' LT.
New R3–5R
New R3–5FP

SN10–38
Sta 116+79
Off 60.1' LT.
New R4–4

SN10–32
Sta 115+17
Off 84.3' RT.
New W11–2L
New W16–7PL

SN10–35
Sta 115+46
Off 93.7' RT.
New R3–5R
New R3–5FP

SN10–36
Sta 116+11
Off 131.2' RT.
New R3–5R
New R3–5FP

SN10–39
Sta 116+89
Off 197.2' RT.
New R4–4

SN10–20
Sta 112+47
Off 9.3' LT.
New R10–101

SN10–31
Sta 115+14
Off 52.9' RT.
New R1–1

SN10–18
Sta 112+45
Off 21.8' LT.
New R10–101

SN10–27
Sta 114+29
Off 8.5' RT.
New R4–7
New OM2–2V (AD)

SN10–28
Sta 114+42
Off 37.7' RT.
New D3–1

SN10–29
Sta 114+93
Off 44.9' RT.
New R1–1

SN10–40
Sta 117+49
Off 236.7' RT.
New R2–1

SN10–05
Sta 109+50
Off 164.0' LT.
New R3–5R
New R3–5FP

SN10–08
Sta 110+34
Off 83.5' LT.
New W11–2L
New W16–7PL

SN10–01
Sta 108+86
Off 54.1' LT.
New R3–5R
New R3–5FP

SN10–09
Sta 110+33
Off 51.2' LT.
New R1–1

SN10–11
Sta 110+57
Off 45.5' LT.
New R1–1

SN10–13
Sta 111+08
Off 36.9' LT.
New D3–1

SN10–16
Sta 111+97
Off 62.5' RT.
New R10–11a
New R3–1(MOD)

SN10–21
Sta 112+47
Off 5.6' RT.
New R10–101

SN10–25
Sta 113+95
Off 98.2' RT.
New R4–4

SN10–30
Sta 114+98
Off 86.1' RT.
New W11–2R
New W16–7PR

SN10–33
Sta 115+26
Off 190.3' RT.
New R3–5R
New R3–5FP

SN10–37
Sta 116+15
Off 221.5' RT.
Remain Exist R2–1
Remain Exist R2–3PF

SN10–23
Sta 112+70
Off 58.7' RT.
New R10–15R

SN10–17
Sta 112+44
Off 4.5' RT.
New R10–101

SN10–19
Sta 112+45
Off 29.6' RT.
New D3–1

SN10–03
Sta 108+99
Off 44.7' RT.
New R4–4

SN10–12
Sta 110+71
Off 64.6' RT.
New R3–5R
New R3–5FP

SN10–14
Sta 111+30
Off 8.1' LT.
New R3–4
New R4–7
New OM2–2V (AD)

SN10–15
Sta 111+51
Off 64.6' RT.
New R3–5R
New R3–5FP

OLD SPANISH TRAIL
22ND STREET
DRIVEWAY 18
DRIVEWAY 16
DRIVEWAY 17
DRIVEWAY 27
NEW SLOPE ESMT.
EXIST. R/W
NEW TCE
22ND STREET CONST. ℄
OLD SPANISH TRAIL CONST. ℄

0 30' 60'
SCALE: 1"=30'

SIGNING NOTES:

1. All existing signs not shown on these plans shall be removed and salvaged.

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

KITTELSON & ASSOCIATES

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

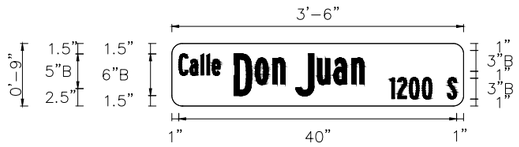
22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

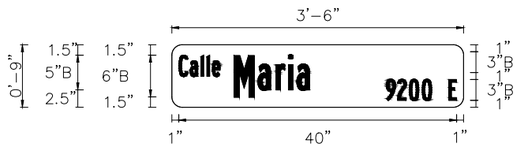
DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: 1"=30' V: N/A
PLAN NO. I-2025-004

SN10 OF SN25
135 OF 316

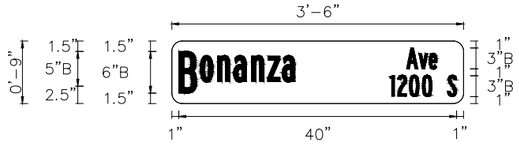
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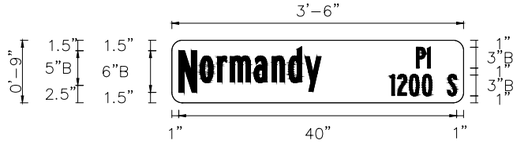
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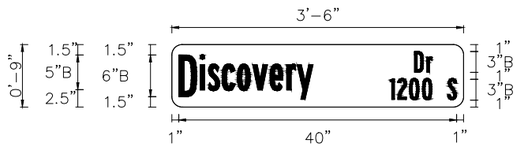
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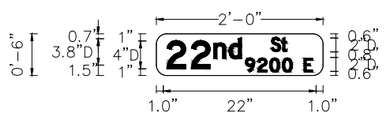
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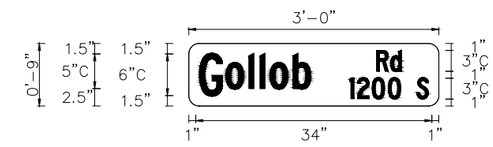
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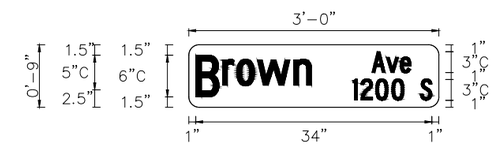
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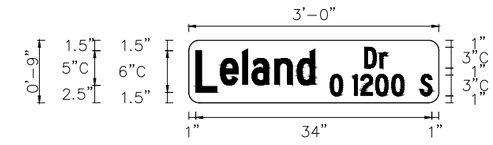
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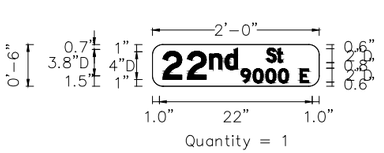
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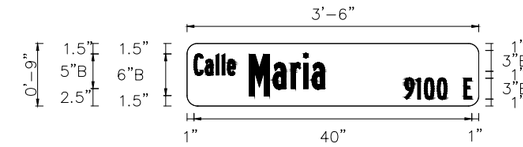
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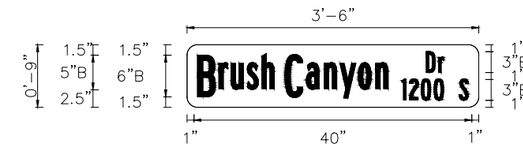
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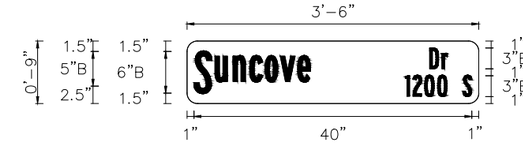
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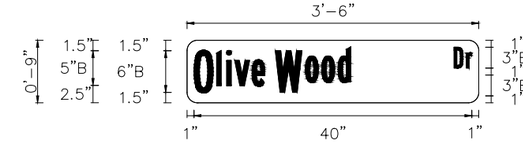
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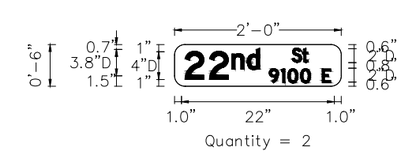
22nd Block Number:
9300 E



22nd Block Number:
10000 E



22nd Block Number:
10100 E



Quantity = 2

KITTELSON & ASSOCIATES

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

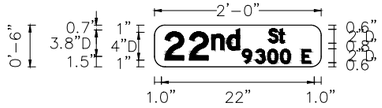
CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25

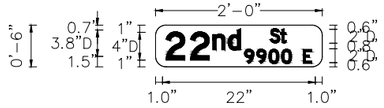
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

SN11 OF SN25
136 OF 316

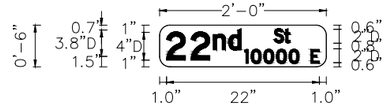
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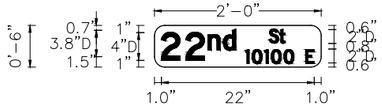
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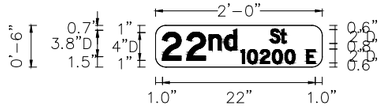
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Quantity = 2



Quantity = 2



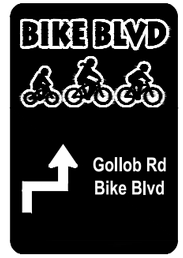
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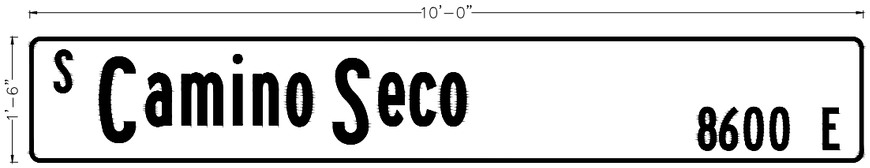
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(24" x 36")
Quantity = 1



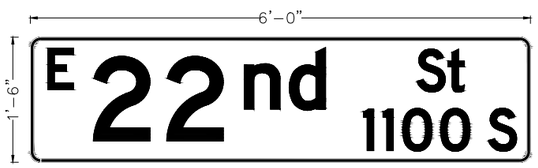
Directional Signage
(24" x 36")
Quantity = 1



Directional Signage
(24" x 36")
Quantity = 2



Camino Seco
Block Number:
8600 E
Quantity = 2



22nd Street
Block Number:
1100 S
Quantity = 5

NO.	DATE	REVISION	BY	CHKD.	APPR.

KITTELSON & ASSOCIATES

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

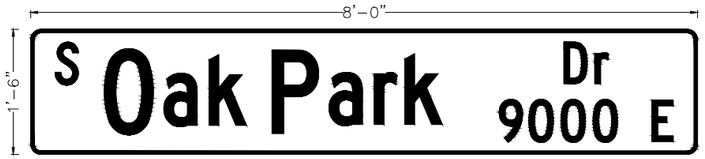
CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

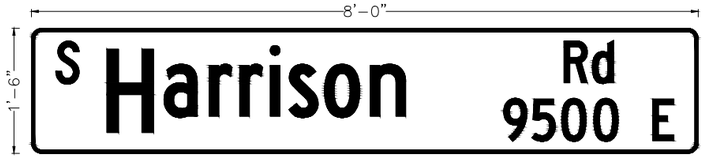
SN12 OF SN25

137 OF 316

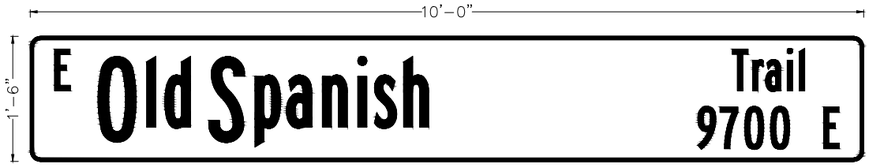
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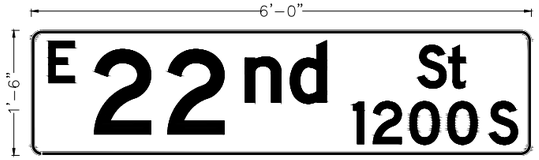
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Block Number:
9000 E
Quantity = 2



Harrison Road
Block Number:
9500 E
Quantity = 2



Old Spanish Trail
Block Number:
9700 E
Quantity = 2



22nd Street
Block Number:
1200 S
Quantity = 2

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KITTELSON & ASSOCIATES

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25

SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN02-01	49+37	12' Lt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN02-02	49+37	61' Lt	D3-1	E Camino Seco 8600 E	X	-	-	-	120	18	15	XI	-	-	-	Mount on Signal Mast Arm
SN02-03	49+64	61' Rt	D3-1	E 22nd St 1100 S	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm
SN02-04	49+94	60' Rt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN02-05	50+07	82' Lt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN02-06	50+43	83' Lt	D3-1	E 22nd St 1100 S	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm
SN02-07	50+61	2' Rt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN02-08	50+61	55' Rt	D3-1	E Camino Seco 8600 E	X	-	-	-	120	18	15	XI	-	-	-	Mount on Signal Mast Arm
REM-01	50+60	54' Rt	R8-3(MOD1)	No Parking (symbol), No Stopping or Standing	-	X	-	-	12	18	1.5	IV	-	-	-	REMOVE
SN02-09	50+88	75' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	13	
	50+88	75' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	-	-	-	
	50+88	75' Lt	R3-7aP	Except Buses (Plaque)	X	-	-	-	24	12	2	IV	-	-	-	
REM-02	51+60	54' Rt	R8-3(MOD1)	No Parking (symbol), No Stopping or Standing	-	X	-	-	12	18	1.5	IV	-	-	-	REMOVE
SN02-10	51+44	55' Rt	Bus Stop Sign	SunTran Bus Stop	-	X	-	-	12	24	2	IV	-	-	-	
	51+67	61' Rt	Bus Stop Sign	SunTran Bus Stop	X	-	-	-	12	24	2	IV	1	P-1	10	
SN02-11	51+67	76' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	13	
	51+67	76' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	-	-	-	
	51+67	76' Lt	R3-7aP	Except Buses (Plaque)	X	-	-	-	24	12	2	IV	-	-	-	
REM-03	51+67	72' Lt	R3-5Rf	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
	51+67	72' Lt	R3-1e	Movement Prohibition - Except Buses	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
REM-04	52+72	51' Rt	D11-1	Bike Route	-	X	-	-	24	18	3	IV	-	-	-	REMOVE
SN02-12	53+20	70' Lt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	1	P-1	10	
REM-05	55+32	42' Lt	D11-1(MOD)	Bike Route Arrow (symbol)	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
	55+32	42' Lt	R4-4	Begin Right Turn Lane Yield to Bikes	-	X	-	-	36	30	7.5	IV	-	-	-	REMOVE
SN02-13	54+63	5' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN02-14	54+63	45' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
REM-06	55+61	42' Rt	R2-1(40)	SPEED LIMIT 40	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
SN02-15	55+70	11' Lt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN02-16	62+56	6' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN02-17	65+90	7' Lt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN02-18	65+90	44' Lt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
REM-07	67+34	34' Lt	R2-1(40)	SPEED LIMIT 40	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE

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NO.	DATE	REVISION	BY	CHKD.	APPR.

KITTELSON & ASSOCIATES

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25

SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN02-19	67+37	9' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	67+37	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
	67+37	9' Lt	R3-5(MOD)	U Turn Only	X	-	-	-	24	30	5	IV	-	-	-	
REM-08	67+96	50' Rt	D3-1	22nd St 9000 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	67+96	50' Rt	D3-1	Calle Don Juan 1200 S	-	X	-	-	42	9	2.625	XI	-	-	-	REMOVE
	67+96	50' Rt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN03-01	68+06	61' Rt	D3-1	22nd St 9000 E	X	-	-	-	24	6	1	XI	1	P-1	11	
	68+06	61' Rt	D3-1	Calle Don Juan 1200 S	X	-	-	-	42	9	2.625	XI	-	-	-	
	68+06	61' Rt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
SN03-02	68+24	9' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	68+24	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN08-01	68+85	45' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	1	P-1	10	
SN08-02	70+44	61' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	70+44	61' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
SN08-03	71+12	5' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	71+12	5' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN08-04	71+12	6' Rt	R3-18	No Left or U Turn	X	-	-	-	24	24	4	IV	1	P-1	10	
SN03-03	75+93	34' Lt	Bus Stop Sign	SunTran Bus Stop	-	X	-	-	12	24	2	IV	-	-	-	
	71+25	54' Lt	Bus Stop Sign	SunTran Bus Stop	X	-	-	-	12	24	2	IV	1	P-1	10	
SN08-05	71+40	61' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	71+40	61' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
SN08-06	71+76	51' Lt	R9-3a	No Pedestrians (symbol)	X	-	-	-	18	18	2.25	IV	-	-	-	Mount on Signal Pole
	71+76	51' Lt	R9-3bPL	Use Crosswalk (plaque)	X	-	-	-	18	12	1.5	IV	-	-	-	
SN08-07	71+72	64' Rt	R9-3a	No Pedestrians (symbol)	X	-	-	-	18	18	2.25	IV	1	P-1	10	
	71+72	64' Rt	R9-3bPL	Use Crosswalk (plaque)	X	-	-	-	18	12	1.5	IV	-	-	-	
SN08-08	71+77	6' Lt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN08-09	71+77	40' Lt	D3-1	S Oak Park Dr 9000 E	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm
SN03-04	71+86	100' Rt	R8-3	No Parking (symbol)	X	-	-	-	24	24	4	IV	1	P-1	12	
SN03-05	71+87	179' Rt	R8-3	No Parking (symbol)	X	-	-	-	24	24	4	IV	1	P-1	10	
REM-09	71+94	99' Rt	R8-3	No Parking (symbol)	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
	71+94	99' Rt	R12-3(MOD)	No Trucks Over 26 ft	-	X	-	-	24	36	6	IV	-	-	-	REMOVE
REM-10	71+95	179' Rt	R8-3	No Parking (symbol)	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
SN08-10	71+96	244' Rt	R2-1(40)	SPEED LIMIT 40	-	-	X	-	30	36	7.5	IV	-	-	-	REMAIN
SN08-11	72+15	53' Lt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN08-12	72+20	58' Lt	BB-2	Bike Blvd Bicycles Use Sidewalk Right Turn	X	-	-	-	24	36	6	IV	1	P-1	10	
SN08-13	72+28	56' Lt	BB-1	Bike Blvd Left Turn	X	-	-	-	24	36	6	IV	1	P-1	13	
	72+28	56' Lt	R9-6(MOD)	Bicycles Ok On Sidewalk/Yield to Peds	X	-	-	-	12	30	2.5	IV	-	-	-	

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KITTELSON & ASSOCIATES

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

SN15 OF SN25
140 OF 316

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN08-14	72+29	51' Lt	R3-8xa	Intersection Lane Control	X	-	-	-	30	30	6.25	XI	-	-	-	Mount on Signal Mast Arm
SN03-06	72+38	155' Rt	R8-3	No Parking (symbol)	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
SN08-15	72+38	174' Rt	BB-3	Gollob Rd Bike Blvd Wayfinding	X	-	-	-	24	36	6	IV	1	P-1	10	
SN08-16	72+38	208' Rt	R3-8xa	Intersection Lane Control	X	-	-	-	30	30	6.25	IV	1	P-1	12	
	72+38	208' Rt	R8-3	No Parking (symbol)	X	-	-	-	24	24	4	IV	-	-	-	
SN08-17	72+38	240' Rt	R8-3(MOD2)	No Parking (symbol) Begins	-	-	X	-	12	18	1.5	IV	-	-	-	REMAIN
SN03-07	72+48	84' Rt	D3-1	Oak Park Dr 1200 S	-	-	X	-	42	9	2.625	XI	-	-	-	REMAIN
	72+48	84' Rt	D3-1	Calle Maria 9000 E	-	-	X	-	42	9	2.625	XI	-	-	-	REMAIN
SN08-18	72+57	51' Lt	D3-1	E 22nd St 1100 S	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm
SN08-19	72+65	41' Rt	D3-1	S Oak Park Dr 9000 E	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm
SN08-20	72+76	9' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	72+76	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN08-21	74+22	70' Lt	R9-6(MOD)	Bicycles Ok On Sidewalk/Yield to Peds	X	-	-	-	12	30	2.5	IV	1	P-1	10	
SN03-08	73+72	36' Rt	Bus Stop Sign	SunTran Bus Stop	-	X	-	-	12	24	2	IV	-	-	-	
	73+47	47' Rt	Bus Stop Sign	SunTran Bus Stop	X	-	-	-	12	24	2	IV	1	P-1	10	
REM-11	74+40	46' Lt	D3-1	22nd St 9100 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	74+40	46' Lt	D3-1	Gollob Rd 1200 S	-	X	-	-	36	9	2.25	XI	-	-	-	REMOVE
	74+40	46' Lt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN08-22	74+42	114' Lt	BB-3	Gollob Rd Bike Blvd Wayfinding	X	-	-	-	24	36	6	IV	1	P-1	10	
SN03-09	74+40	6' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN03-10	74+40	44' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN08-23	74+42	57' Lt	D3-1	22nd St 9100 E	X	-	-	-	24	6	1	XI	1	P-1	12	
	74+42	57' Lt	D3-1	Gollob Rd 1200 S	X	-	-	-	36	9	2.25	XI	-	-	-	
	74+42	57' Lt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	-	-	-	
	74+42	57' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
SN03-11	74+60	5' Lt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
REM-12	75+96	38' Rt	R2-1(40)	SPEED LIMIT 40	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
SN03-12	76+30	9' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	76+30	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN03-13	77+31	5' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	77+31	5' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN03-14	77+31	5' Lt	R3-18	No Left or U Turn	X	-	-	-	24	24	4	IV	1	P-1	10	
SN03-15	77+75	7' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
REM-13	77+92	63' Rt	D3-1	22nd St 9100 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	77+92	63' Rt	D3-1	Calle Maria 9100 E	-	X	-	-	42	9	2.625	XI	-	-	-	REMOVE
	77+92	63' Rt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE

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DETS: x134220det x134220sheetcuts JOC-29830-SIGN x134220tpo gudesign-working x134220eng x134220pmto x134220mes x134220tbo x134220ull-n x134220ull-e x134220llt x134220dm x134220ew-e x134220ew-n

KITTELSON & ASSOCIATES

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN03-16	78+01	57' Rt	D3-1	22nd St 9100 E	X	-	-	-	24	6	1	XI	1	P-1	12	
	78+01	57' Rt	D3-1	Calle Maria 9100 E	X	-	-	-	42	9	2.625	XI	-	-	-	
	78+01	57' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	-	-	-	
	78+01	57' Rt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
SN03-17	82+96	7' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN03-18	83+10	60' Rt	D3-1	22nd St 9200 E	-	-	X	-	24	6	1	XI	-	-	-	REMAIN
	83+10	60' Rt	D3-1	Calle Maria 9200 E	-	-	X	-	42	9	2.625	XI	-	-	-	REMAIN
	83+10	60' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	-	-	-	
	83+10	60' Rt	R1-1	Stop	-	-	X	-	30	30	6.25	IV	-	-	-	REMAIN
SN03-19	85+79	43' Lt	Bus Stop Sign	SunTran Bus Stop	-	X	-	-	12	24	2	IV	-	-	-	
	84+49	46' Lt	Bus Stop Sign	SunTran Bus Stop	X	-	-	-	12	24	2	IV	1	P-1	10	
SN03-20	85+54	9' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	85+54	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
	85+54	9' Lt	R3-5(MOD)	U Turn Only	X	-	-	-	24	30	5	IV	-	-	-	
SN03-21	85+67	76' Rt	R12-3(MOD)	No Trucks Over 26 ft	-	-	-	X	24	36	6	IV	1	P-1	10	
REM-15	85+74	76' Rt	R12-3(MOD)	No Trucks Over 26 ft	-	X	-	-	24	36	6	IV	-	-	-	REMOVE
SN03-22	86+00	109' Rt	R4-7	Keep Right (Symbol)	-	-	X	-	24	30	5	IV	-	-	-	REMAIN
	86+00	109' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN03-23	86+21	57' Rt	D3-1	22nd St 9200 E	X	-	-	-	24	6	1	XI	1	P-1	11	
	86+21	57' Rt	D3-1	Brown Ave 1200 S	X	-	-	-	36	9	2.25	XI	-	-	-	
	86+21	57' Rt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
REM-16	86+26	42' Rt	D3-1	22nd St 9200 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	86+26	42' Rt	D3-1	Brown Ave 1200 S	-	X	-	-	36	9	2.25	XI	-	-	-	REMOVE
	86+26	42' Rt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN03-24	86+41	9' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	86+41	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN03-25	87+25	37' Rt	Bus Stop Sign	SunTran Bus Stop	-	X	-	-	12	24	2	IV	-	-	-	
	87+25	43' Rt	Bus Stop Sign	SunTran Bus Stop	X	-	-	-	12	24	2	IV	1	P-1	10	
SN04-01	89+10	7' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN04-02	90+13	7' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN04-03	92+26	7' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
REM-17	92+98	51' Rt	R3-5FP	Right Lane (plaque)	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
	92+98	51' Rt	R3-5R	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
REM-18	93+81	53' Rt	R3-5Rf	Right Turn Only	-	X	-	-	30	48	10	IV	-	-	-	REMOVE
SN04-04	93+87	57' Rt	W14-2	No Outlet	X	-	-	-	30	30	6.25	XI	1	P-1	10	
REM-19	93+99	67' Rt	W14-2	No Outlet	-	X	-	-	30	30	6.25	XI	-	-	-	REMOVE
SN04-05	94+21	7' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	

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xREFs: x134220dsn x134220elecsts XR-29830--SIGN x134220fpo gutdesign-working x134220hg x134220hmb x134220hss x134220tpo x134220ult--n x134220ult--e x134220ult x134220dm x134220dm--n

NO.	DATE	REVISION	BY	CHKD.	APPR.

KITTELSON & ASSOCIATES

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
REM-20	94+46	50' Rt	D3-1	22nd St 9300 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	94+46	50' Rt	D3-1	Brush Canyon Dr 1200 S	-	X	-	-	42	9	2.625	XI	-	-	-	REMOVE
	94+46	50' Rt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN04-06	94+48	7' Lt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN04-07	94+49	56' Lt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN04-08	94+53	55' Rt	D3-1	22nd St 9300 E	X	-	-	-	24	6	1	XI	1	P-1	12	
	94+53	55' Rt	D3-1	Brush Canyon Dr 1200 S	X	-	-	-	42	9	2.625	XI	-	-	-	
	94+53	55' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	-	-	-	
	94+53	55' Rt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
REM-21	95+92	35' Lt	R2-1(40)	SPEED LIMIT 40	-	X	-	-	30	36	7.5	IV	-	-	-	
SN04-09	96+43	9' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	96+43	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN04-10	97+65	5' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	97+65	5' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN04-11	97+65	6' Lt	R3-18	No Left or U Turn	X	-	-	-	24	24	4	IV	1	P-1	10	
REM-22	98+13	44' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	-	X	-	-	36	30	7.5	IV	-	-	-	REMOVE
SN04-12	98+36	55' Lt	Destination Sign (Downtown)	Wayfinding Sign	-	-	-	X	-	-	-	-	-	-	-	RELOCATE
REM-23	98+50	42' Lt	D11-1	Bike Route	-	X	-	-	24	18	3	IV	-	-	-	REMOVE
REM-24	99+40	55' Rt	R3-5Rf	Right Turn Only	-	X	-	-	30	48	10	IV	-	-	-	REMOVE
SN09-01	99+40	60' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	1	P-1	10	
REM-25	100+08	6' Lt	R4-7	Keep Right (Symbol)	-	X	-	-	24	30	5	IV	-	-	-	REMOVE
	100+08	6' Lt	R3-3	No Turns	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
SN04-13	100+48	8' Lt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
			R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	-	-	-	
SN09-02	100+84	72' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	-	-	-	Mount on Light Pole
	100+84	72' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
REM-26	101+32	55' Lt	W5-1	Road Narrows	-	X	-	-	36	36	9	XI	-	-	-	REMOVE
SN09-03	101+31	60' Lt	Bus Stop Sign	SunTran Bus Stop	X	-	-	-	12	24	2	IV	1	P-1	10	
SN09-04	101+85	75' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	101+85	75' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	11	
SN09-05	101+92	6' Lt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN09-06	101+92	50' Lt	D3-1	S Harrison Rd 9500 E	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm
SN09-07	102+02	8' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	102+02	8' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN09-08	102+35	100' Rt	D3-1	E 22nd St 1200 S	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN09-09	102+70	100' Rt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN09-10	102+75	95' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	102+75	95' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN09-11	102+87	81' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	102+87	81' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN09-12	102+94	94' Lt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN09-13	103+23	94' Lt	D3-1	E 22nd St 1200 S	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm
SN09-14	103+51	8' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	10	
	103+51	8' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN09-15	103+62	6' Rt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN09-16	103+62	56' Rt	D3-1	S Harrison Rd 9500 E	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Mast Arm
SN09-17	103+63	63' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	103+63	63' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
SN09-18	104+17	60' Rt	Bus Stop Sign	SunTran Bus Stop	-	X	-	-	12	24	2	IV	-	-	-	
	104+39	61' Rt	Bus Stop Sign	SunTran Bus Stop	X	-	-	-	12	24	2	IV	1	P-1	10	
SN09-19	104+86	64' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	104+86	64' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	11	
SN04-14	104+97	8' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN04-15	105+28	57' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	-	-	-	Mount on Light Pole
REM-27	105+44	51' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	-	X	-	-	36	30	7.5	IV	-	-	-	REMOVE
SN09-20	105+62	49' Lt	R4-4	Begin Right Turn Lane Yield to Bikes	-	-	X	-	36	30	7.5	IV	-	-	-	REMAIN
REM-28	105+78	51' Rt	W9-2L	Lane Ends Merge Left	-	X	-	-	30	30	6.25	XI	-	-	-	REMOVE
SN04-16	105+80	71' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	1	P-1	10	
REM-29	105+85	7' Rt	R4-7	Keep Right (Symbol)	-	X	-	-	24	30	5	IV	-	-	-	REMOVE
	105+85	7' Rt	R3-3	No Turns	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
SN04-17	105+90	8' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN04-18	106+08	50' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN04-19	106+40	7' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
REM-30	106+51	61' Lt	R3-5Rf	Right Turn Only	-	X	-	-	30	48	10	IV	-	-	-	REMOVE
SN04-20	106+66	64' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	106+66	64' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
SN04-21	106+89	57' Rt	R3-5R	Right Turn Only	-	-	X	-	30	36	7.5	IV	1	P-1	11	REMAIN
	106+89	57' Rt	R3-5FP	Right Lane (plaque)	-	-	X	-	30	12	2.5	IV	-	-	-	REMAIN
REM-31	107+06	54' Rt	R3-9a	Two Way Left Turn Only (Overhead)	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
	107+06	54' Rt	R2-1(40)	SPEED LIMIT 40	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE

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CITY OF TUCSON

DRWN. BY OGS AUG 20 25 | CHKD. BY BDH AUG 20 25 | APPR. BY FLG AUG 20 25

SCALE: H: N/A V: N/A

PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
REM-32	107+53	61' Lt	R3-5Rf	Right Turn Only	-	X	-	-	30	48	10	IV	-	-	-	REMOVE
SN04-22	107+53	64' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	11	
	107+53	64' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	-	-	-	
SN04-23	107+64	56' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	11	
	107+64	56' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	-	-	-	
REM-33	107+79	51' Rt	R3-5R	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
	107+79	51' Rt	R3-5FP	Right Lane (plaque)	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
SN04-24	107+92	70' Lt	R1-1	Stop	-	-	X	-	30	30	6.25	IV	-	-	-	REMAIN
	107+92	70' Lt	R3-5R	Right Turn Only	-	-	X	-	30	36	7.5	IV	-	-	-	REMAIN
SN05-01	108+04	6' Lt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN05-02	108+36	65' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	11	
	108+36	65' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	-	-	-	
SN05-03	108+43	7' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
REM-34	108+58	61' Lt	R3-5Rf	Right Turn Only	-	X	-	-	30	48	10	IV	-	-	-	REMOVE
REM-35	108+81	39' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	-	X	-	-	36	30	7.5	IV	-	-	-	REMOVE
SN10-01	108+86	53' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	108+86	53' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
SN10-02	108+91	228' Lt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	1	P-1	10	
SN10-03	108+99	45' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	1	P-1	10	
SN10-04	109+34	287' Lt	R3-5Rf	Right Turn Only	-	-	X	-	30	48	10	IV	-	-	-	REMAIN
SN10-05	109+50	164' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	109+50	164' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
REM-36	109+56	53' Lt	R3-5Rf	Right Turn Only	-	X	-	-	30	48	10	IV	-	-	-	REMOVE
SN10-06	110+03	109' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	110+03	109' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
SN05-04	110+10	48' Lt	R4-4	Begin Right Turn Lane Yield to Bikes	-	-	X	-	36	30	7.5	IV	-	-	-	REMAIN
SN10-07	110+22	197' Lt	R4-4	Begin Right Turn Lane Yield to Bikes	-	-	X	-	36	30	7.5	IV	-	-	-	REMAIN
REM-37	110+25	40' Rt	R3-5FP	Right Lane (plaque)	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
	110+25	40' Rt	R3-5R	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
REM-38	110+27	8' Lt	R4-7	Keep Right (Symbol)	-	X	-	-	24	30	5	IV	-	-	-	REMOVE
SN10-08	110+34	84' Lt	W16-7PL	Downward Diagonal Arrow (plaque)	X	-	-	-	24	12	2	XI	1	P-1	11	
	110+34	84' Lt	W11-2L	Pedestrian	X	-	-	-	30	30	6.25	XI	-	-	-	

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SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN10-09	110+33	51' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	1	P-1	10	
SN10-10	110+49	90' Lt	W16-7PR	Downward Diagonal Arrow (plaque)	X	-	-	-	24	12	2	XI	1	P-1	11	
	110+49	90' Lt	W11-2R	Pedestrian	X	-	-	-	30	30	6.25	XI	-	-	-	
REM-39	110+54	76' Lt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN10-11	110+57	46' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	1	P-1	10	
SN10-12	110+71	65' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	110+71	65' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
REM-40	110+83	68' Lt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN10-13	111+08	37' Lt	D3-1	E 22nd St 1100 S	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Pole
REM-41	111+30	110' Lt	D11-1	Bike Route	-	X	-	-	24	18	3	IV	-	-	-	REMOVE
SN10-14	111+30	8' Lt	R3-4	No U-Turn (Symbol)	X	-	-	-	24	24	4	IV	1	P-1	11	
	111+30	8' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	-	-	-	
	111+30	8' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
REM-42	111+35	44' Rt	SPECIAL	Watch for Pedestrians	-	X	-	-	24	24	4	XI	-	-	-	REMOVE
	111+35	44' Rt	R9-3	No Pedestrians (symbol)	-	X	-	-	18	18	2.25	IV	-	-	-	REMOVE
	111+35	44' Rt	R9-3bP	Use Crosswalk (plaque)	-	X	-	-	18	12	1.5	IV	-	-	-	REMOVE
SN10-15	111+51	65' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	11	
	111+42	65' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN10-16	111+97	63' Rt	R10-11a	No Turn on Red	X	-	-	-	24	30	5	IV	-	-	-	Mount on Signal Pole
	111+97	63' Rt	R3-1(MOD)	No Right Turn for Trucks	X	-	-	-	30	36	7.5	IV	-	-	-	Mount on Signal Pole
SN10-17	112+44	5' Rt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN10-18	112+45	22' Lt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN10-19	112+45	30' Rt	D3-1	E Old Spanish Trail 9700 E	X	-	-	-	120	18	15	XI	-	-	-	Mount on Signal Mast Arm
SN10-20	112+47	9' Lt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN10-21	112+47	6' Rt	R10-101	Left Turn Yield on Flashing Yellow Arrow	X	-	-	-	30	36	7.5	XI	-	-	-	Mount on Signal Mast Arm
SN10-22	112+47	56' Lt	D3-1	E Old Spanish Trail 9700 E	X	-	-	-	120	18	15	XI	-	-	-	Mount on Signal Mast Arm
SN10-23	112+70	59' Rt	R10-15R	Turning Vehicles Yield to Pedestrians	X	-	-	-	30	30	6.25	IV	1	P-1	10	
SN10-24	112+69	55' Lt	R10-15R	Turning Vehicles Yield to Pedestrians	X	-	-	-	30	30	6.25	IV	1	P-1	10	
REM-43	113+51	0' Rt	W25-2	Oncoming Traffic May Have Extended Green	-	X	-	-	24	30	5	IV	-	-	-	REMOVE
	113+51	0' Rt	R4-7	Keep Right (Symbol)	-	X	-	-	24	30	5	IV	-	-	-	REMOVE
REM-44	113+77	93' Rt	SPECIAL	Stop for Pedestrians in Crosswalk	-	X	-	-	-	-	-	IV	-	-	-	REMOVE
SN10-25	113+95	98' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	1	P-1	10	
REM-45	113+97	94' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	-	X	-	-	36	30	7.5	IV	-	-	-	REMOVE
REM-46	114+08	0' Rt	R4-7	Keep Right (Symbol)	-	X	-	-	24	30	5	IV	-	-	-	REMOVE
SN10-26	114+18	57' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	11	
	114+18	57' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	-	-	-	

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xREFs: x134220sw x134220wetcuts XR-29830-SIGN x134220pv guidesign-working x134220dg x134220pmb x134220mss x134220tpo x134220ut1-m x134220ut-e x134220lit x134220drn x134220sw-n

NO.	DATE	REVISION	BY	CHKD.	APPR.

KITTELSON & ASSOCIATES

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN10-27	114+29	9' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	114+29	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN10-28	114+42	38' Rt	D3-1	E 22nd St 1100 S	X	-	-	-	96	18	12	XI	-	-	-	Mount on Signal Pole
SN05-05	114+65	156' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	114+65	156' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
REM-47	114+71	146' Rt	R3-5R	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
	114+71	146' Rt	R3-5FP	Right Lane (plaque)	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
SN10-29	114+93	45' Rt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	1	P-1	10	
SN10-30	114+98	86' Rt	W16-7PR	Downward Diagonal Arrow (plaque)	X	-	-	-	24	12	2	XI	1	P-1	11	
	114+98	86' Rt	W11-2R	Pedestrian	X	-	-	-	30	30	6.25	XI	-	-	-	
SN10-31	115+14	53' Rt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	1	P-1	10	
SN10-32	115+17	84' Rt	W16-7PL	Downward Diagonal Arrow (plaque)	X	-	-	-	24	12	2	XI	1	P-1	11	
	115+17	84' Rt	W11-2L	Pedestrian	X	-	-	-	30	30	6.25	XI	-	-	-	
SN10-33	115+26	190' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	115+26	190' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
REM-48	115+34	62' Lt	R3-5Rf	Right Turn Only	-	X	-	-	30	48	10	IV	-	-	-	REMOVE
SN10-34	115+35	67' Lt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	1	P-1	11	
	115+35	67' Lt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	-	-	-	
SN10-35	115+46	94' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	115+46	94' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
SN05-06	115+36	74' Rt	D2-1a	Wayfinding Sign	-	-	-	X	-	-	-	-	-	-	-	RELOCATE
REM-49	115+72	30' Rt	D11-1	Bike Route	-	X	-	-	24	18	3	IV	-	-	-	REMOVE
SN10-36	116+11	131' Rt	R3-5R	Right Turn Only	X	-	-	-	30	36	7.5	IV	1	P-1	11	
	116+11	131' Rt	R3-5FP	Right Lane (plaque)	X	-	-	-	30	12	2.5	IV	-	-	-	
SN10-37	116+15	221' Rt	R2-1(40)	SPEED LIMIT 40	-	-	X	-	30	36	7.5	IV	-	-	-	REMAIN
	116+15	221' Rt	R2-3P(35)	Night Speed (plaque)	-	-	X	-	30	36	7.5	IV	-	-	-	REMAIN
SN10-38	116+79	60' Lt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	1	P-1	10	
SN10-39	116+89	197' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	X	-	-	-	36	30	7.5	IV	1	P-1	10	
SN10-40	117+49	237' Rt	R2-1(30)	SPEED LIMIT 30	X	-	-	-	24	30	5	IV	1	P-1	11	
SN05-07	118+24	7' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN05-08	118+24	52' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	XI	1	P-1	11	
SN05-09	119+18	54' Rt	Wash Sign	Wayfinding Sign	X	-	-	-	18	24	3	IV	1	P-1	8.5	
	119+18	23' Rt	Wash Sign	Wayfinding Sign	-	X	-	-	18	24	3	IV	-	-	-	REMOVE
SN05-10	121+23	45' Lt	Wash Sign	Wayfinding Sign	X	-	-	-	18	24	3	IV	1	P-1	8.5	
	121+37	26' Lt	Wash Sign	Wayfinding Sign	-	X	-	-	18	24	3	IV	-	-	-	REMOVE

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25 | CHKD. BY BDH AUG 20 25 | APPR. BY FLG AUG 20 25 | SCALE: H: N/A V: N/A | PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN06-01	128+50	9' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	128+50	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN06-02	128+63	77' Lt	D3-1	22nd St 9900 E	X	-	-	-	24	6	1	XI	1	P-1	11	
	128+63	77' Lt	D3-1	Bonanza Ave 1200 S	X	-	-	-	42	9	2.625	XI	-	-	-	
	128+63	77' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
REM-51	128+72	46' Lt	D3-1	22nd St 9900 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	128+72	46' Lt	D3-1	Bonanza Ave 1200 S	-	X	-	-	42	9	2.625	XI	-	-	-	REMOVE
	128+72	46' Lt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN06-03	129+67	4' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	129+67	4' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN06-04	129+67	6' Lt	R3-18	No Left or U Turn	X	-	-	-	24	24	2	IV	1	P-1	10	
SN06-05	130+58	75' Lt	D3-1	22nd St 9900 E	X	-	-	-	24	6	1	XI	1	P-1	12	
	130+58	75' Lt	D3-1	Red Colt Rd 1200 S	X	-	-	-	42	9	2.625	XI	-	-	-	
	130+58	75' Lt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	-	-	-	
	130+58	75' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
REM-52	130+64	54' Lt	D3-1	22nd St 9900 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	130+64	54' Lt	D3-1	Red Colt Rd 1200 S	-	X	-	-	42	9	2.625	XI	-	-	-	REMOVE
	130+64	54' Lt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN06-06	130+84	7' Lt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN06-07	133+71	9' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	133+71	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN06-08	133+82	74' Lt	D3-1	22nd St 10000 E	X	-	-	-	24	6	1	XI	1	P-1	11	
	133+82	74' Lt	D3-1	Suncove Dr 1200 S	X	-	-	-	42	9	2.625	XI	-	-	-	
	133+82	74' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
REM-53	133+86	36' Lt	D3-1	22nd St 10000 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	133+86	36' Lt	D3-1	Suncove Dr 1200 S	-	X	-	-	42	9	2.625	XI	-	-	-	REMOVE
	133+86	36' Lt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN06-09	134+58	9' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	134+58	9' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
	134+58	9'Rt	R3-5(MOD)	U Turn Only	X	-	-	-	30	48	10	IV	-	-	-	
REM-54	135+55	29' Lt	R3-9b	Two Way Left Turn Only (Post-mount)	-	X	-	-	24	36	6	IV	-	-	-	REMOVE
	135+55	29' Lt	D11-1	Bike Route	-	X	-	-	24	18	3	IV	-	-	-	REMOVE
								-								
REM-55	135+82	29' Rt	R3-9b	Two Way Left Turn Only (Post-mount)	-	X	-	-	24	36	6	IV	-	-	-	REMOVE
	135+82	29' Rt	D11-1	Bike Route	-	X	-	-	24	18	3	IV	-	-	-	REMOVE
SN06-10	136+58	6' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN06-11	136+58	52' Rt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
								-								
SN06-12	137+96	7' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	1	P-1	8	
SN06-13	138+11	58' Rt	D3-1	22nd St 10000 E	X	-	-	-	24	6	1	XI	1	P-1	13	
	138+11	58' Rt	D3-1	Normandy Pl 1200 S	X	-	-	-	42	9	2.625	XI	-	-	-	
	138+11	58' Rt	W14-2aR	No Outlet (arrow)	X	-	-	-	24	6	1	XI	-	-	-	
	138+11	58' Rt	R6-1R	ONE WAY	X	-	-	-	36	12	3	IV	-	-	-	
	138+11	58' Rt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

SN23 OF SN25

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C:\Users\csaldana\appdata\local\temp\Acpublish_25892\CD-29830--SIGNING.dwg Aug 21, 2025 csaldana
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Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
REM-56	138+17	46' Rt	D3-1	22nd St 10000 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	138+17	46' Rt	D3-1	Normandy Pl 1200 S	-	X	-	-	42	9	2.625	XI	-	-	-	REMOVE
	138+17	46' Rt	W14-2aR	No Outlet (arrow)	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	138+17	46' Rt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN06-14	139+51	6' Lt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN06-15	139+51	58' Lt	R2-1(40)	SPEED LIMIT 40	X	-	-	-	30	36	7.5	IV	1	P-1	11	
SN06-16	141+57	9' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	141+57	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
REM-57	141+80	32' Lt	D3-1	22nd St 10100 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	141+80	32' Lt	D3-1	Leland Dr 0-1200 S	-	X	-	-	36	9	2.25	XI	-	-	-	REMOVE
	141+80	32' Lt	W14-2aR	No Outlet (arrow)	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	141+80	32' Lt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN06-17	141+88	73' Lt	D3-1	22nd St 10100 E	X	-	-	-	24	6	1	XI	1	P-1	12	
	141+88	73' Lt	D3-1	Leland Dr 0-1200 S	X	-	-	-	36	9	2.25	XI	-	-	-	
	141+88	73' Lt	W14-2aR	No Outlet (arrow)	X	-	-	-	24	6	1	XI	-	-	-	
	141+88	73' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
SN06-18	142+57	5' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	142+57	5' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN06-19	142+57	6' Lt	R3-18	No Left or U Turn	X	-	-	-	24	24	4	IV	1	P-1	10	
REM-58	142+62	33' Rt	W6-1	Divided Highway	-	X	-	-	36	36	9	XI	-	-	-	REMOVE
REM-59	144+59	32' Lt	R3-9b	Two Way Left Turn Only (Post-mount)	-	X	-	-	24	36	6	IV	-	-	-	REMOVE
REM-60	144+61	33' Rt	D11-1	Bike Route	-	X	-	-	24	18	3	IV	-	-	-	REMOVE
SN06-20	144+70	9' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	144+70	9' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN06-21	144+80	63' Lt	D3-1	22nd St 10100 E	X	-	-	-	24	6	1	XI	1	P-1	11	
	144+80	63' Lt	D3-1	Olive Wood Dr	X	-	-	-	42	9	2.625	XI	-	-	-	
	144+80	63' Lt	R1-1	Stop	X	-	-	-	30	30	6.25	IV	-	-	-	
REM-61	144+93	50' Lt	D3-1	22nd St 10100 E	-	X	-	-	24	6	1	XI	-	-	-	REMOVE
	144+93	50' Lt	D3-1	Olive Wood Dr	-	X	-	-	42	9	2.625	XI	-	-	-	REMOVE
	144+93	50' Lt	R1-1	Stop	-	X	-	-	30	30	6.25	IV	-	-	-	REMOVE
SN06-22	145+42	7' Lt	R4-7	Keep Right (Symbol)	-	X	-	-	24	30	5	IV	-	-	-	REMOVE
	145+42	7' Lt	R3-4	No U Turn (symbol)	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
SN06-23	145+74	55' Lt	R3-5FP	Right Lane (plaque)	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
	145+74	55' Lt	R3-5R	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
SN06-24	145+85	5' Rt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	145+85	5' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
								-								
SN06-25	145+85	6' Lt	R3-18	No Left or U Turn	X	-	-	-	24	24	4	IV	1	P-1	10	
SN06-26	147+19	55' Lt	R3-5FP	Right Lane (plaque)	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
	147+19	55' Lt	R3-5R	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
								-								
REM-63	147+41	33' Rt	R4-4	Begin Right Turn Lane Yield to Bikes	-	X	-	-	36	30	7.5	IV	-	-	-	REMOVE

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NO.	DATE	REVISION	BY	CHKD.	APPR.

KITTELSON & ASSOCIATES

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
APPR. BY FLG AUG 20 25

SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

Sign Number	Station	Offset	Sign Code	Legend	New	Remove	Remain	Relocate	Width (in)	Height (in)	Area (sq. ft.)	Min Sheeting Type	Number of Posts	Post Type	Total Length (ft)	Location/Remarks
SN06-27	147+66	7' Lt	R4-7	Keep Right (Symbol)	X	-	-	-	24	30	5	IV	1	P-1	12	
	147+66	7' Lt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
								-								
SN06-28	147+66	7' Rt	R3-18	No Left or U Turn	X	-	-	-	24	24	4	IV	1	P-1	10	
SN06-29	147+96	3' Lt	R4-7	Keep Right (Symbol)	-	X	-	-	24	30	5	IV	-	-	-	REMOVE
	147+96	3' Lt	R3-4	No U Turn (symbol)	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
SN06-30	148+64	64' Rt	D3-1	22nd St 10200 E	-	-	X	-	24	6	1	XI	-	-	-	REMAIN
	148+64	64' Rt	D3-1	Discovery Dr 1200 S	-	-	X	-	42	9	2.625	XI	-	-	-	REMAIN
	148+64	64' Rt	R6-1R	ONE WAY	-	X	-	-	36	12	3	IV	-	-	-	REMOVE
	148+64	64' Rt	R1-1	Stop	-	-	X	-	30	30	6.25	IV	-	-	-	REMAIN
SN06-31	148+71	11' Rt	R4-7	Keep Right (Symbol)	-	-	X	-	24	30	5	IV	-	-	-	REMAIN
	148+71	11' Rt	R3-4	No U Turn (symbol)	-	X	-	-	24	24	4	IV	-	-	-	REMOVE
	148+71	11' Rt	OM2-2V (AD)	All Direction PVC Yellow and Black	X	-	-	-	6	12	0.5	IV	-	-	-	
SN07-01	149+48	60' Lt	W6-2	Divided Highway Ends	-	X	-	-	36	36	9	XI	-	-	-	REMOVE
SN07-02	151+20	63' Rt	R3-5FP	Right Lane (plaque)	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
	151+20	63' Rt	R3-5R	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
SN07-03	151+34	15' Lt	R2-1(40)	SPEED LIMIT 40	-	-	X	-	30	36	7.5	IV	-	-	-	REMAIN
SN07-04	151+37	61' Lt	R2-1(40)	SPEED LIMIT 40	-	-	X	-	30	36	7.5	IV	-	-	-	REMAIN
	151+37	61' Lt	D11-1	Bike Route	-	X	-	-	24	18	3	IV	-	-	-	REMOVE
SN07-05	151+86	59' Lt	Bus Stop Sign	SunTran Bus Stop	-	-	X	-	12	24	2	IV	-	-	-	REMAIN
SN07-06	152+52	63' Lt	W9-2L(MOD)	Thru Traffic Merge Left	-	X	-	-	30	30	6.25	XI	-	-	-	REMOVE
SN07-07	152+54	15' Lt	W9-2L(MOD)	Thru Traffic Merge Left	-	X	-	-	30	30	6.25	XI	-	-	-	REMOVE
SN07-08	153+13	15' Lt	R3-8	Intersection Lane Control	-	-	X	-	30	30	6.25	IV	-	-	-	REMAIN
SN07-09	153+45	15' Lt	R6-1R	ONE WAY	-	-	X	-	36	12	3	IV	-	-	-	REMAIN
SN07-10	154+35	63' Rt	R3-5FP	Right Lane (plaque)	-	X	-	-	30	12	2.5	IV	-	-	-	REMOVE
	154+35	63' Rt	R3-5R	Right Turn Only	-	X	-	-	30	36	7.5	IV	-	-	-	REMOVE
SN07-11	154+62	14' Lt	R3-8	Intersection Lane Control	-	-	X	-	30	30	6.25	IV	-	-	-	REMAIN

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KITTELSON & ASSOCIATES

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ROAD WIDENING PROJECT
SIGNING PLAN SHEETS

CITY OF TUCSON

DRWN. BY OGS AUG 20 25
CHKD. BY BDH AUG 20 25
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SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

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AUG 20 25	AUG 20 25	AUG 20 25

SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

GENERAL NOTES FOR TRAFFIC SIGNAL PLANS:

1. CONSTRUCTION SHALL CONFORM TO PAG STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND STANDARD DETAILS FOR PUBLIC IMPROVEMENTS 2015 EDITION, ALL ADDENDA, AND REVISIONS THERETO.
2. ALL EQUIPMENT/MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT PAG "STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" AND "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS", AND THE PLANS.
3. ALL PEDESTRIAN PUSH BUTTON ASSEMBLIES SHALL MEET ADA REQUIREMENTS. THE SIGNS THAT SHALL BE USED ARE IDENTIFIED IN THE 2009 MUTCD AS R10-3E(L) OR R10-3E(R) ON PAGE 93.
4. ALUMINUM SIGN PANELS SHALL BE FLAG MOUNTED ON THE SIDE OF THE POLE, DOUBLE SIDED STREET NAMES AND INSTALLED SUCH THAT THE BOTTOM OF THE SIGN PANEL IS NO LESS THAT 17 FEET ABOVE THE ROADWAY PAVEMENT OR NO LESS THAN 16 FEET ABOVE THE FINISHED GRADE BEYOND THE SHOULDER, BIKE LANE OR MULTI-USE LANE.
5. THE EXACT LOCATION OF EACH NEW POLE FOUNDATION, PULL BOX, CONTROLLER CABINET FOUNDATION, AND ELECTRIC SERVICE PEDESTAL FOUNDATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
6. THE TOP OF THE POLE FOUNDATION SHALL BE LEVEL WITH THE FINISHED GRADE.
7. ONLY NEW CONDUIT AND CABLE SHALL BE INSTALLED.
8. ALL CONDUIT SHALL BE INSTALLED A MINIMUM OF 30 INCHES BELOW FINISHED GRADE.
9. ANY CONDUIT INSTALLED SHALLOWER THAN 30 INCHES BELOW FINISHED GRADE SHALL BE ENCASED IN CONCRETE PER SPECIFICATION NO. 732-3.01 (G).
10. ALL CONDUITS SHALL BE CLEANED BY COMPRESSED AIR AND A PROPERLY SIZED CONDUIT PISTON OR MANDREL PRIOR TO CABLE INSTALLATION.
11. CONDUIT INSTALLED UNDER EXISTING PAVED DRIVEWAYS THAT ARE NOT SCHEDULED TO BE RECONSTRUCTED AS PART OF THIS PROJECT SHALL BE INSTALLED BY MEANS OF BORING.
12. PULL BOXES SHALL NOT BE INSTALLED WITHIN CONCRETE CURB ACCESS RAMPS. IN ADDITION, ANY PULL BOXES INSTALLED BEHIND CURBS SHALL BE INSTALLED BETWEEN THE CURB AND THE PROPOSED / FUTURE SIDEWALK OR BEYOND THE PROPOSED / FUTURE SIDEWALK. AN EXCEPTION TO THIS NOTE WOULD BE PULL BOXES INSTALLED IN A MEDIAN. ANY PULL BOXES INSTALLED ALONG AN UNCURBED ROADWAY SHALL BE INSTALLED ADJACENT TO, BUT NOT WITHIN, THE SHOULDER.
13. A 3/4 IN. X 10 FT. GROUND ROD SHALL BE INSTALLED IN THE NO. 7 PULL BOX (WITH THE EXTENSION) ADJACENT TO THE CONTROLLER CABINET. TWO GROUND ROD CLAMPS SHALL BE FURNISHED FOR GROUNDING THE GROUND WIRE.
14. THE HIGH VOLTAGE CABLES SHOULD BE SEPARATED FROM THE LOW VOLTAGE CABLES AS MUCH AS POSSIBLE.
15. AN UNSPLICED IMSA 19-1 16-CONDUCTOR CABLE SHALL BE INSTALLED FROM THE CONTROLLER CABINET TO THE TERMINAL BLOCK OF EACH POLE.
16. POLES WITH ONLY PEDESTRIAN SIGNALS AND PUSH BUTTON STATIONS SHALL USE ONE 7-CONDUCTOR CABLE FOR BOTH THE PUSH BUTTON STATION AND THE PEDESTRIAN SIGNAL. THE OUTER CABLE JACKET SHALL NOT BE REMOVED AT THE HAND HOLE HEIGHT. TWO CONDUCTORS SHALL BE ROUTED FROM THE TERMINAL BLOCK TO THE PUSH BUTTON STATION AND THE REMAINING CONDUCTORS SHALL BE ROUTED FROM THE TERMINAL BLOCK TO THE PEDESTRIAN SIGNAL.
17. THE TUCSON ELECTRIC POWER COMPANY PUBLIC IMPROVEMENT COORDINATOR (520-918-8359) SHALL BE CONTACTED BY THE CONTRACTOR TO VERIFY THE LOCATION OF THE ELECTRIC SERVICE CONNECTION AT EACH INTERSECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING THE TRENCH AND INSTALLING ANY NECESSARY SLEEVES UNDER SIDEWALKS OR DRIVEWAYS IN WHICH THE ELECTRIC SERVICE CABLE IN CONDUIT (CIC) IS TO BE INSTALLED BY TEP.
18. THE TRAFFIC SIGNAL OPERATION AT EXISTING SIGNALIZED INTERSECTIONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
19. AVOID PLACING UNDERGROUND CONDUIT OVER EXISTING WATER MAINS AND MAINTAIN FIVE (5) FEET HORIZONTAL SEPARATION, TYPICAL FOR ALL CONDUIT INSTALLATIONS THROUGHOUT THE PROJECT. MAINTAIN MINIMUM OF ONE (2) FEET VERTICAL SEPARATION FROM OD OF WATER MAIN TO OD OF ELECTRICAL CONDUIT. CONCRETE ENCASE ANY ELECTRICAL CONDUIT THAT CROSSES EXISTING WATER MAIN LINE. MAINTAIN MINIMUM OF ONE (1) FOOT VERTICAL SEPERATION FROM EXISTING GAS LINES AT PROPOSED CONDUIT CROSSING.
20. AT POLE FOUNDATIONS CLOSE TO EXISTING WATER MAINS, MAINTAIN A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION FROM OUTSIDE OF FOUNDATION TO THE OD OF WATER MAIN.
21. AT THE LOCATION WHERE MINIMUM HORIZONTAL SEPARATION CANNOT BE MET, CONTRACTOR SHALL POTHOLE TO DETERMINE EXACT LOCATION OF WATERLINE PRIOR TO INSTALLATION OF THE POLE FOUNDATION AND THE LOCATION OF POLE FOUNDATION SHALL BE APPROVED BY FIELD ENGINEER.
22. ALL EQUIPMENT SHALL BE PLACED WITHIN THE RIGHT OF WAY. INCLUDE ALL CONDUIT RUNS.
23. CONDUIT RUNS ARE SHOWN FOR SCHEMATIC PURPOSES, AND SHALL BE PLACED IN A COMMON TRENCH WHERE POSSIBLE.
24. ALL SIGNAL INDICATIONS AND PEDESTRIAN SIGNALS SHALL BE L.E.D.
25. ALL COMMUNICATIONS EQUIPMENT/MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON TELECOMMUNICATIONS STANDARDS 2023 OR CURRENT EDITION AND THE APPROVED PLANS.
26. ALL TRAFFIC SIGNAL HOUSINGS MOUNTED ON THE MAST ARM SHALL BE ALUMINUM. SIDE (POLE) MOUNTED TRAFFIC SIGNAL HOUSINGS SHALL BE POLYCARBONATE. ALL BACKPLATES SHALL BE FIVE INCHES (5"), BLACK, LOUVERED ALUMINUM WITH REINFORCED 90-DEGREE BENT EDGES. ALL BACKPLATES SHALL HAVE A TWO-INCH (2") YELLOW RETROREFLECTIVE BORDER. ALL VISORS SHALL BE PAINTED YELLOW AND OF MATERIALS APPROVED BY THE TRAFFIC ENGINEER OR HIS/HER DESIGNEE PRIOR TO ORDERING AND INSTALLATION.

GENERAL NOTES FOR TRAFFIC SIGNAL PLANS (CONT.):

27. THE EMERGENCY VEHICLE PRE-EMPTION SENSOR AND ASSOCIATED COMPONENTS SHALL BE THE STROBECOM II 4090-1-ST DETECTOR WITH THE 4140 OPTICAL SIGNAL PROCESSOR CARD AND 1881 CARD CAGE.
28. THE EMERGENCY VEHICLE PRE-EMPTION SENSOR CABLE SHALL BE TOMAR DETECTOR CABLE MODEL NO. M913, AND SHALL RUN UNSPLICED FROM THE SENSOR TO THE CABINET.
29. THE CONDUCTORS FOR THE EMERGENCY VEHICLE PRE-EMPTION BEACON AND SENSOR SHALL BE ROUTED UNSPLICED FROM THE TRAFFIC SIGNAL CONTROLLER TO A WEATHERPROOF BOX MOUNTED WHERE SHOWN ON THE SIGNAL MAST ARM. THE EMERGENCY VEHICLE SENSOR SHALL BE MOUNTED ON THE WEATHERPROOF BOX SUCH THAT LINE OF SIGHT TRANSMISSIONS FROM APPROACHING EMERGENCY VEHICLES ARE NOT BLOCKED BY THE BACKPLATE OR OTHER OBSTRUCTIONS.
30. THE CONTRACTOR SHALL CONTACT THE CITY OF TUCSON A MINIMUM OF THREE WEEKS PRIOR TO ORDERING TO VERIFY THE TYPE OF LUMINAIRE THAT THE CITY OF TUCSON WILL WANT TO HAVE INSTALLED. EACH LUMINAIRE IN TRAFFIC SIGNAL SYSTEMS SHALL OPERATE AT 120V AND SHALL HAVE R3 DISTRIBUTION, 3000K CORRELATED COLOR TEMPERATURE, P7 7-PIN PHOTOCELL RECEPTACLE OPTION, ROAM ADAPTIVE CONTROL, ACUITY SPD SURGE PROTECTOR WITH LED INDICATION, AND A 10-YEAR WARRANTY.

CONTRACTOR RESPONSIBILITIES FOR TRAFFIC SIGNALS:

1. CITY OF TUCSON WILL SUPPLY THE TRAFFIC SIGNAL CONTROLLER AND TRAFFIC SIGNAL CONTROLLER CABINET. THE CONTRACTOR SHALL PICK UP THE TRAFFIC SIGNAL CONTROLLER CABINET FROM THE ELECTRIC SHOP. CONTACT ARMANDO BRACAMONTE (520-837-6802) (ARMANDO.BRACAMONTE@TUCSONAZ.GOV) ONE WEEK PRIOR TO PICK UP.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING EQUIPMENT AND MATERIALS: STEEL POLE ANCHOR BOLTS (WITH NUTS AND WASHERS), CONCRETE POLE FOUNDATION(S) WITH REINFORCEMENT, CONTROLLER CABINET CONCRETE FOUNDATION(S), CONCRETE PULL BOXES, ELECTRICAL CONDUIT, GROUND RODS AND CONNECTORS, BARE BOND WIRE AND ALL OTHER CONDUCTORS, POLES, MAST ARMS, TRAFFIC SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN PUSH BUTTON STATIONS WITH SIGNS, LUMINAIRES, PHOTOCELLS, STREET NAME SIGNS, ELECTRIC SERVICE PEDESTAL(S), CONCRETE FOUNDATION(S), ALL AUXILIARY EQUIPMENT, AND ALL OTHER APPURTENANCES NECESSARY FOR THE OPERATION OF THE TRAFFIC SIGNAL INSTALLATION.
3. PRIOR TO TRAFFIC CONTROLLER INSTALLATION, THE CONTRACTOR SHALL DELIVER THE TRAFFIC CONTROLLER TO THE CITY OF TUCSON STREETS AND TRAFFIC MAINTENANCE DIVISION YARD. CONTACT ARMANDO BRACAMONTE (520-837-6802) (ARMANDO.BRACAMONTE@TUCSONAZ.GOV) ONE WEEK PRIOR TO DELIVERY.
4. THE CONTRACTOR SHALL INSTALL EACH TRAFFIC CONTROLLER CABINET ON ITS FOUNDATION AND ROUTE ALL OF THE CONDUCTORS INTO THE CONTROLLER CABINET. THE CITY OF TUCSON STREETS AND TRAFFIC MAINTENANCE DIVISION STAFF SHALL TERMINATE THE CONDUCTORS IN THE CONTROLLER CABINET.
5. THE CONTRACTOR SHALL CAREFULLY DISASSEMBLE AND SALVAGE ALL EXISTING TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT THAT IS NOT TO REMAIN OR BE RELOCATED. ALL OF THE EQUIPMENT SHALL BE RETURNED TO THE CITY OF TUCSON STREETS AND TRAFFIC MAINTENANCE DIVISION YARD. THE CONTRACTOR SHALL UNLOAD ALL THE EQUIPMENT. CONTACT ARMANDO BRACAMONTE (520-837-6802) (ARMANDO.BRACAMONTE@TUCSONAZ.GOV) ONE WEEK PRIOR TO DELIVERY.

STREET LIGHTING GENERAL NOTES:

1. POLES SHALL BE PLACED PER PLANS, WITHIN THE PROJECT RIGHT-OF-WAY. PROPOSED POLE LOCATIONS SHALL BE STAKED BY THE CONTRACTOR, VERIFIED AND APPROVED BY CITY OF TUCSON PROJECT MANAGER, PRIOR TO ANY CONSTRUCTION ACTIVITIES.
2. EACH LUMINAIRE INSTALLATION SHALL CONFORM TO THE STREET LIGHT POLE WIRING DIAGRAM STANDARD DETAIL NO. T 107.
3. ALL LIGHTING UNITS SHALL BE INSTALLED WITH THE FIXTURE ORIENTED PERPENDICULAR TO THE ROADWAY ON WHICH THEY ARE LOCATED.
4. ALL ELECTRICAL SERVICE REQUIREMENTS AND CONNECTIONS SHALL BE COORDINATED WITH TUCSON ELECTRIC POWER (TEP), MIRANDA JACKSON (520) 449-4309.
5. ONCE LUMINAIRES ARE INSTALLED, A 48 HOUR BURN TEST IS NEEDED ON THE SIGNALS WHERE PEC ARE BEING USED. THE CONTRACTOR SHALL UTILIZED SHORTING CAPS ON LUMINAIRES TO DO THE 48 HOUR BURN TEST. ONCE THE 48 HOUR TEST IS COMPLETE, CONTRACTOR SHALL INSTALL THE PEC.
6. REFER TO PAG STANDARD DETAIL NO. T 713 FOR THE INSTALLATION OF STREET LIGHTING CONDUIT, UNLESS JOINT TRENCHED WITH ITS CONDUIT. REFER TO JOINT TRENCH CONSTRUCTION DETAIL IN STREET LIGHTING AND ITS PLANS. CONTRACTOR SHALL PLACE WARNING TAPE IN ALL TRENCHES IN WHICH NEW CONDUIT IS PLACED AS SHOWN IN PAG STANDARD DETAIL NO. T 713. THE COST OF THE WARNING TAPE AND INSTALLATION SHALL BE INCIDENTAL TO THE COST OF THE CONDUIT AND NOT PAID SEPARATELY.
7. ALL LUMINAIRES SHALL BE FULL CUT OFF.
8. CONTRACTOR SHALL REPLACE ALL CONDUCTORS IN ANY CONDUITS BEING REUSED.

LEGEND

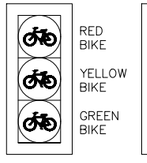
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RIGHT-OF-WAY LINE		
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#7 PULL BOX		
#7 PULL BOX W/ EXTENSION		
PENCELL 30 SERIES PULL BOX		
TRAFFIC SIGNAL CONTROL CABINET STREET		
METERED PEDESTAL		
UNINTERRUPTIBLE POWER SYSTEM CABINET		
POLE OR POST		
CONDUIT RUN		
LUMINAIRE		
ALUMINUM SIGN PANEL		
PEDESTRIAN BUTTON ON POLE		
PEDESTRIAN SIGNAL		
SIGNAL HEAD TYPE "F"		
SIGNAL HEAD TYPE "G"		
SIGNAL HEAD TYPE "Q"		
SIGNAL HEAD TYPE "R"		
SIGNAL HEAD MODIFIED TYPE "R"		
BICYCLE SIGNAL HEAD TYPE "B"		
VIDEO DETECTION		
EMERGENCY VEHICLE PRE-EMPTION BEACON		
EMERGENCY VEHICLE PRE-EMPTION SENSOR		
FLAG MOUNTED STREET NAME SIGN		
RADIO ANTENNA		

CALLOUT DESCRIPTION		
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POLE KEY	(X)	(X)
PULL BOX KEY	(X)	(X)

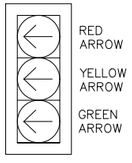
SIGNAL EQUIPMENT TABLE

DESCRIPTION	MODEL NUMBER
LUMINAIRE	ATB2 P601FPD MVOLT R3 3K GY 20 TB NL P7
PEDESTRIAN PUSH BUTTON	THE GUARDIAN 912® WITH WAVE AND BLUE TOOTH MOD ACCESSIBLE PEDESTRIAN SIGNAL (APS). WITH SPI AND STRANDED 4 CONDUCTOR CABLE, UN-SPLICED
BICYCLIST PUSH BUTTON	MECHANICAL TYPE, CAMPBELL DCC200
METER PEDESTAL	MEYERS 125 AMP 120/240V MEUG16-125
CONTROLLER CABINET	TYPE V CABINET, TS2 TYPE 2, 16 BAY
TRAFFIC CONTROLLER	ECONOLTIE PART # COB21100110000

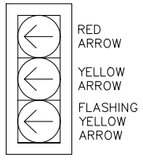
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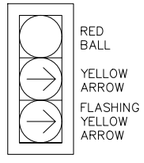
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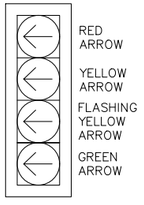
MODIFIED TYPE R(LT):



MODIFIED TYPE R(RT):



TYPE G:



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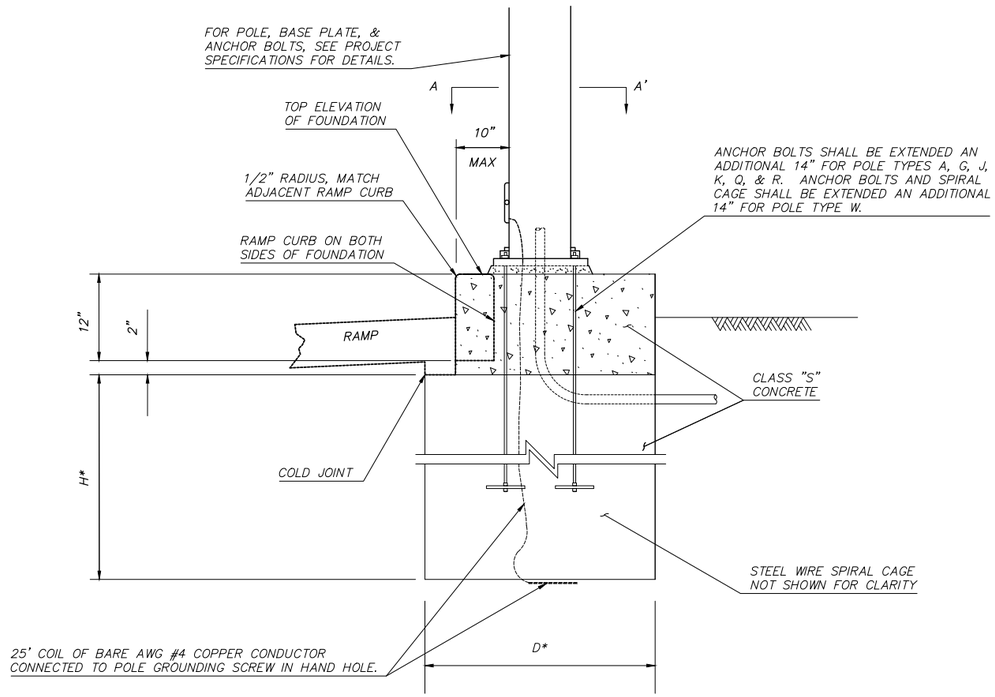
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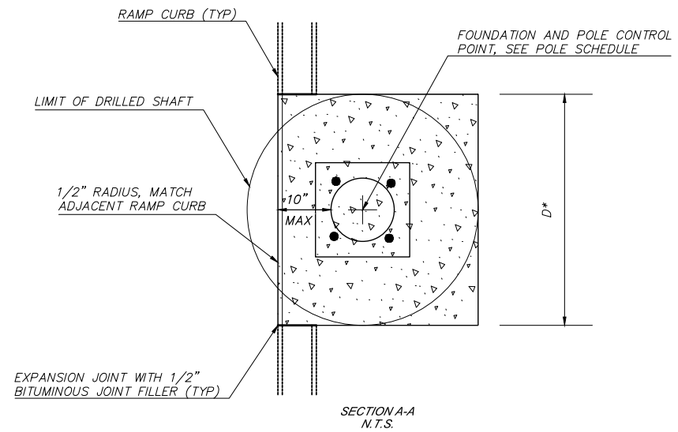
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL GENERAL NOTES

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004



DT TS1 SIGNAL/LIGHT POLE FOUNDATION CAP DETAIL



SECTION A-A
N.T.S.

NOTES:

1. DRILLED SHAFTS SHALL BE FORMED 2" MIN. BELOW BOTTOM OF CURB.
2. DRILLED SHAFT FOUNDATION CAP SHALL BE FINISHED WITH A STEEL TROWEL FOLLOWED BY BRUSHING WITH A FINE BRUSH.
3. ALL EXPOSED EDGES AND HAND TOOLED JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" RADIUS.
4. POLE FOUNDATION CAPS SHALL BE CONSIDERED INCLUDED IN THE RESPECTIVE SIGNAL/LIGHT POLE FOUNDATION BID ITEMS.

* VARIES SEE ADOT STD. DTL. T-SL 4.16 & 4.17 AND PAG STD. DTL. T 401, 407, 410, 413, 419 & 445 FOR FOUNDATION DIMENSIONS. ANCHOR BOLT AND SPIRAL CAGES WILL BE EXTENDED IN ADDITION TO THE STANDARD FOUNDATION HEIGHT.

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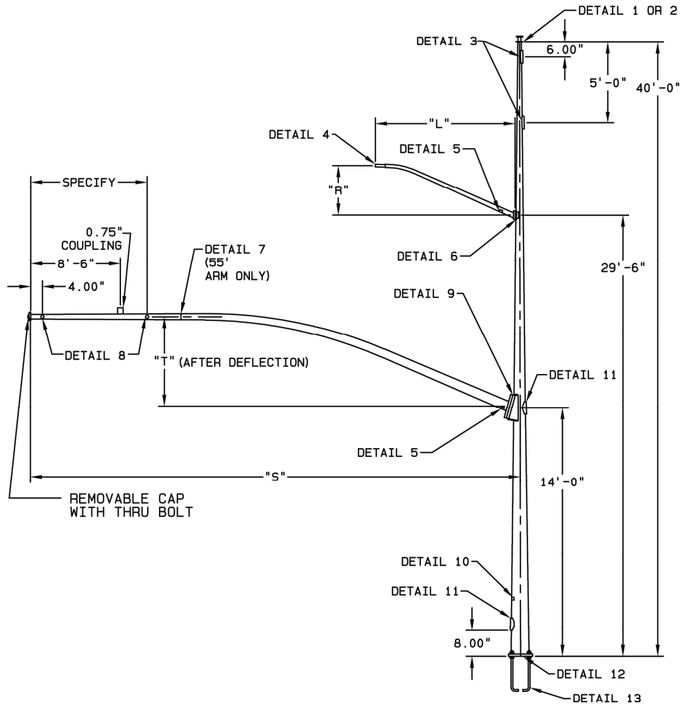
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ROAD WIDENING PROJECT
TRAFFIC SIGNAL DETAIL SHEET

CITY OF TUCSON

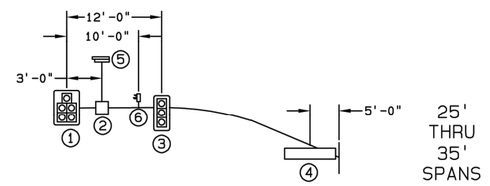
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PLAN NO. I-2025-004

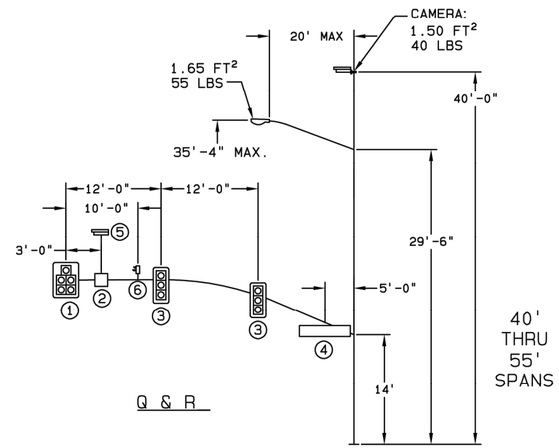
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TUCSON CCTV POLE SERIES



Q & R



Q & R

LOADING INFORMATION

DEVICE	DESCRIPTION	PROJ. AREA (FT^2)	WEIGHT (LBS)
① SIGNAL	12"- 5 SECTION WITH BACKPLATES	13.70	71.0
② SIGN	DIRECTIONAL SIGN	7.50	23.0
③ SIGNAL	12"- 3 SECTION WITH BACKPLATES	8.67	49.0
④ SIGN	STREET NAME SIGN	15.00	150.0
⑤ CAMERA	CAMERA WITH 6' TALL MOUNTING ARM	2.00	30.00
⑥ PRE-EMPT	PRE-EMPTION DEVICE	1.00	15.00

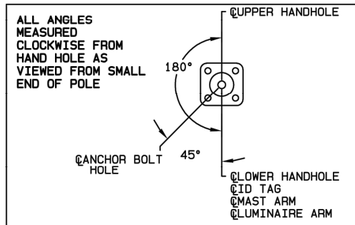
DESIGN CRITERIA:
DESIGNED TO WITHSTAND PRESSURES EQUIVALENT TO 80 MPH ISOTACH WIND VELOCITY, WITH A 1.3 GUST FACTOR, AS DEFINED BY THE AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", 1994.

POLE, BASE PLATE, ANCHOR BOLT DATA

QUANTITY	POLE TYPE	POLE TUBE				POLE BASE				ANCHOR BOLT		
		LENGTH (FT)	BASE DIA. (IN)	TOP DIA. (IN)	WALL GA/THK	SQUARE "B" (IN)	BOLT CIRCLE "C" (IN)	THK. "D" (IN)	SLOT SIZE "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)
2	Q-CCTV	40.00	12.50	6.90	3	18.00	17.00-18.00	2.00	2.25 X 2.75	2.00	90.00	6.00"
2	R-CCTV	40.00	13.50	7.90	0.313	18.00	17.50-18.00	2.00	2.25 X 2.50	2.00	90.00	6.00"

SIGNAL ARM DATA

TYPE	QTY	ARM SPAN "S" (FT)	LARGE END DIA. (IN)	GAUGE OR THICK (IN)	SECTION LENGTH (FT)	RISE "T" (FT)
Q		25	8.00	7	25	7.00
		30	9.00	7	30	7.00
		35	9.00	3	35	7.00
	2	40	9.44	3	40	7.00
R	2	45	11.00	7	45	7.00
		50	11.00	3	50	7.00
		55	12.50	5	40.00	7.00
			6.84	7	15.82	



POLE RADIAL INDEX

MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFT-3 GA.	A595 GR.A	55	LUM. ARM ATTACHMENT	A36	36
POLE SHAFT-0.250" THK.	A572	65	ANCHOR BOLTS	F1554	55
BASE PLATE-595 SHAFT	A36	36	NUTS	A563 GR.A	
BASE PLATE-572 SHAFT	A572 GR.50	50	WASHERS	F463	
SIGNAL ARM TUBE	A595 GR.A	55	GALVANIZING-ACCESSORIES	F2329	
SIGNAL ARM ATTACHMENT	A36	36	GALVANIZING-STRUCTURE	A123	
LUMINAIRE ARM TUBE	A595 GR.A	55			

LUMINAIRE ARM DATA

QTY	ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LENGTH "L" (FT)	RISE "R" (FT)
	6	3.31	2.40	11	6.00	2.00
	8	3.61	2.40	11	8.00	2.50
	10	3.93	2.40	11	10.00	3.33
	12	4.23	2.40	11	12.00	4.25
	15	4.65	2.40	11	15.00	4.75
	18	5.10	2.40	11	18.00	5.75
2	20	5.90	3.00	7	20.00	5.75

REV	DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION
—	TS8 08/05/20	RBC2 08/12/20	— — — — — — — — — — — — — — — —

SOLD TO: CITY OF TUCSON
SHIP TO: CITY OF TUCSON TRAFFIC MAINTENANCE
AGENT: CLARK TRANSPORTATION SOLUTIONS

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ORDER NUMBER: 236167-P32
PAGE NUMBER: 1 OF 2
DRAWING NUMBER AZ236167P32 REV

DT TS2 *CITY OF TUCSON 'Q' AND 'R' CCTV POLE*
SHEET 1 OF 2

NO.	DATE	REVISION	BY	CHKD.	APPR.

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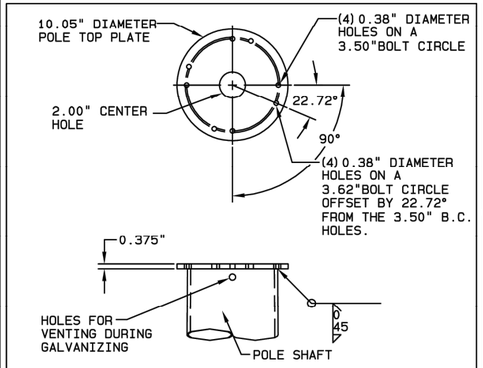
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL DETAIL SHEET

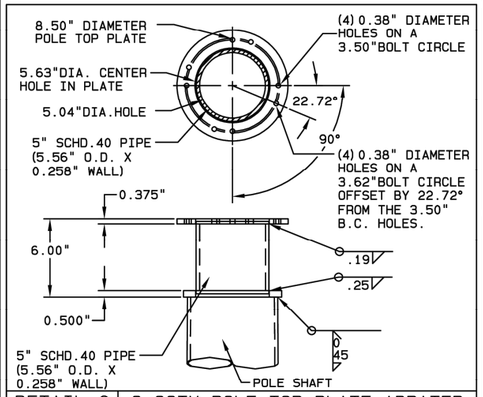
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DRWN. BY I. LESSELS AUG 20 25
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APPR. BY E. CHENG AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

TS03 OF TS19
154 OF 316

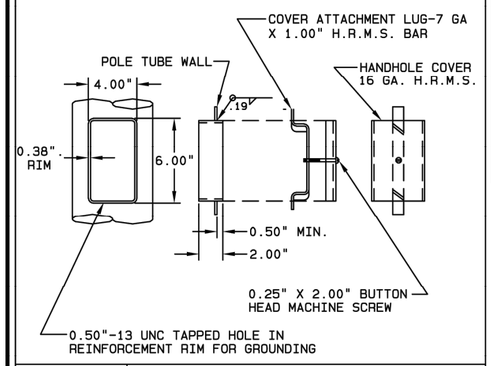
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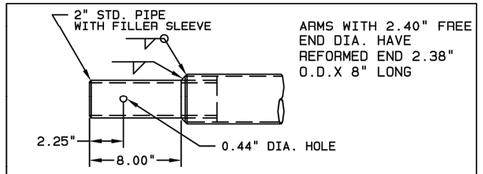
DETAIL 1 | R-CCTV POLE TOP PLATE



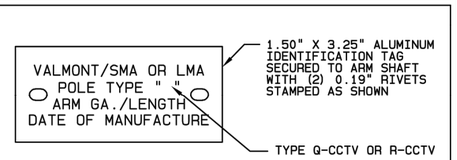
DETAIL 2 | Q-CCTV POLE TOP PLATE ADPATER



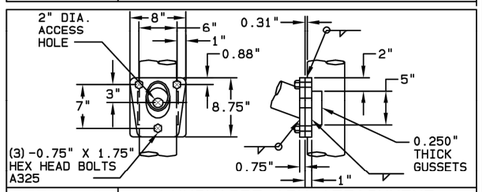
DETAIL 3 | HANDHOLE



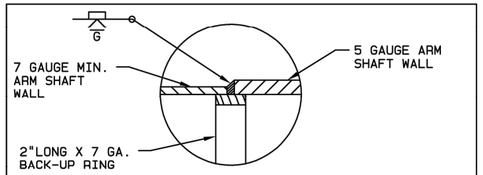
DETAIL 4 | LUMINAIRE ARM END TENON



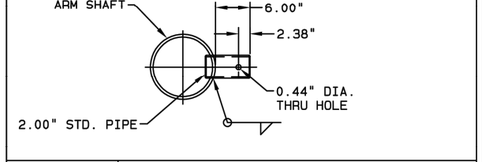
DETAIL 5 | ARM IDENTIFICATION TAG



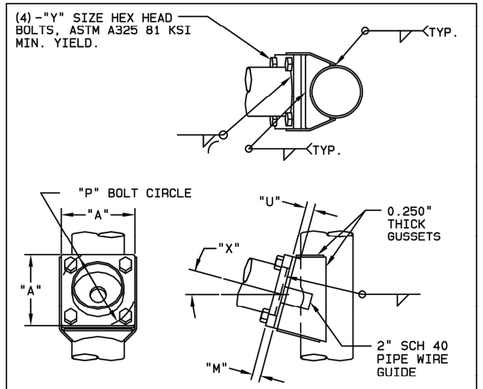
DETAIL 6 | LUMINAIRE ARM ATTACHMENT



DETAIL 7 | 55' ARM SPLICE



DETAIL 8 | SIGNAL ARM TENON

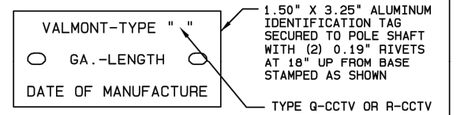


SIGNAL ARM ATTACHMENT DATA

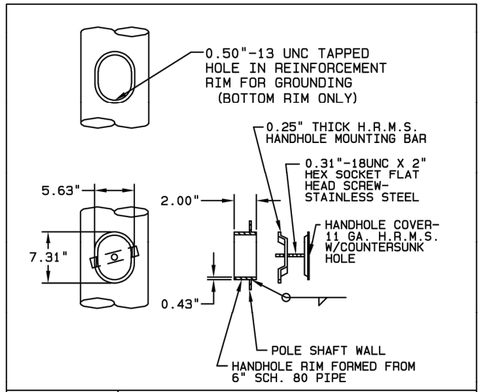
TYPE	"A"	"P"	"M"	"U"	"X"	"Y"
Q-CCTV	13.00"	13.00"	1.00"*	1.50"	23°	1.25" X 3.50"
R-CCTV	15.00"	15.00"	1.50"	1.75"	15°	1.25" X 3.50"

*1.25"=SIGNAL ARMS 30', 35' & 40'

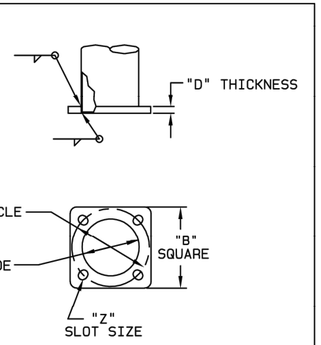
DETAIL 9 | SIGNAL ARM ATTACHMENT



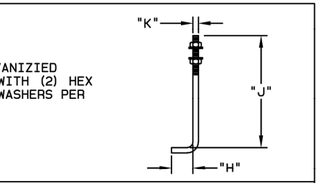
DETAIL 10 | POLE IDENTIFICATION TAG



DETAIL 11 | HANDHOLE



DETAIL 12 | POLE BASE



DETAIL 13 | ANCHOR BOLT

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

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DT TS2 *CITY OF TUCSON 'Q' AND 'R' CCTV POLE SHEET 2 OF 2*

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL DETAIL SHEET

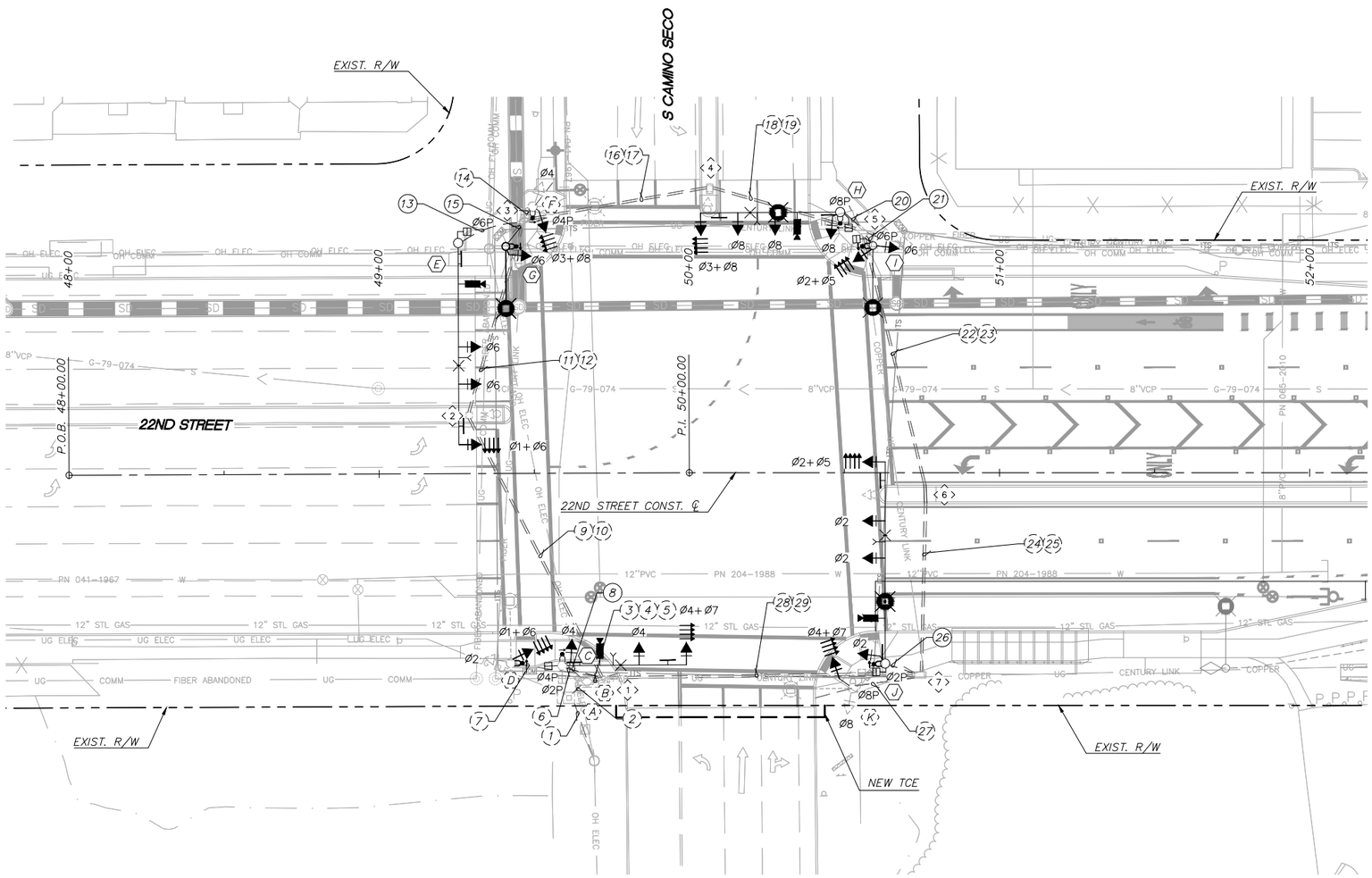
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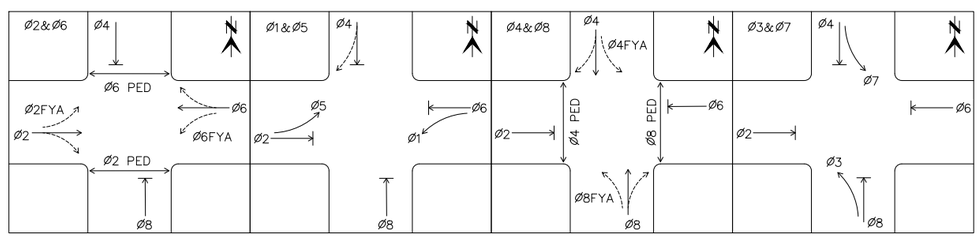
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TS04 OF TS19
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PROPOSED PHASING DETAIL

PULL BOX SCHEDULE

NO.	TYPE	STATION	OFFSET
⟨1⟩	#7E	49+71.86	66.55' RT
⟨2⟩	#5	49+29.12	18.82' LT
⟨3⟩	#7	49+46.99	81.53' LT
⟨4⟩	#5	50+06.56	91.59' LT
⟨5⟩	#7	50+55.55	77.95' LT
⟨6⟩	#5	50+76.36	7.06' RT
⟨7⟩	#7	50+74.09	65.17' RT

0 20' 40'
SCALE: 1"=20'

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL PLAN SHEET - CAMINO SECO

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

TS05 OF TS19

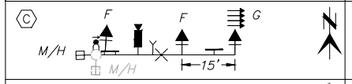
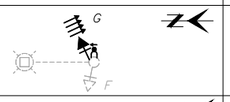
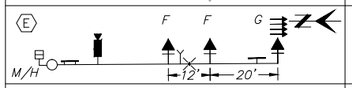
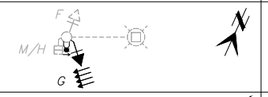
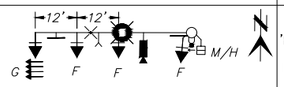
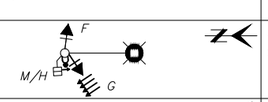
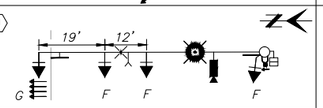
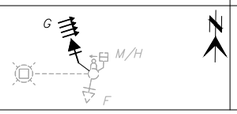
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CABINET SCHEDULE

CABINET	TYPE	CONTROLLER	AUX. CONTROL	FOUNDATION	REMARKS	LOCATION
(A)	--	--	--	--	EXIST. METER PEDESTAL TO REMAIN.	APPROX. AS SHOWN
(B)	--	--	--	--	EXIST. CONTROL CABINET TO REMAIN.	APPROX. AS SHOWN

POLE SCHEDULE

POLE NUMBER	POLE TYPE	MAST ARM		SIGNALS		PED PB	FNDTN	REMARKS	LOCATION
		SIG	LUM	MTG	ASSEM				
(C) 	EXIST. 'J'	40'	--	II T 901 II T 901 V T 903 XI T 909	G (NOTE 4)* F T 801* F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L) (SEE REMARKS)	EXIST.	- *INSTALL VIDEO DETECTION ON SIGNAL MAST ARM PER T 1905. SEE NOTE 5.* - *INSTALL PRE-EMPTION PER T 1902. SEE NOTE 2* - *INSTALL SNS. SEE NOTE 3.* - *PUSH BUTTON SHALL BE INSTALLED ON A PUSH BUTTON EXTENDER.* - *INSTALL R10-101 SIGN. SEE NOTE 7.*	APPROX. AS SHOWN
(D) 	EXIST. 'G'	--	EXIST. 20'	VII T 905	G (NOTE 4) F EXIST.	T 1101 ADA (2"PB) T 1104 R10-3e(R)	EXIST.	-	APPROX. AS SHOWN
(E) 	'V' ADOT T-SL 4-16	60'	--	II T 901 II T 901 II T 901 XI T 909	G (NOTE 4)* F T 801* F T 801* PS T 804(LED)	--	T-SL 4-16	- *INSTALL VIDEO DETECTION ON SIGNAL MAST ARM PER T 1905. SEE NOTE 5.* - *INSTALL PRE-EMPTION PER T 1902. SEE NOTE 2.* - *INSTALL SNS. SEE NOTE 3.* - *INSTALL R10-101 SIGN. SEE NOTE 7.*	STA. 49+25.75, OFF. 74.36' LT
(F) 	EXIST. 'G'	--	EXIST. 20'	VII T 905 XI EXIST.	G (NOTE 4) F EXIST. M/H EXIST.	T 1101 ADA (2"PB) T 1104 R10-3e(R)	EXIST.	-	APPROX. AS SHOWN
(G) 	'TYPE 2 STREET LIGHT' T 445	--	20'	--	--	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 445	- *INSTALL LED LUMINAIRE. SEE NOTE 6.*	STA. 49+41.13, OFF. 73.18' LT
(H) 	'R-CCTV' SEE NOTE 8	45'	20'	II T 901 II T 901 II T 901 V T 903 XI T 909	G (NOTE 4)* F T 801* F T 801* F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 413	- *INSTALL LED LUMINAIRE. SEE NOTE 6.* - *INSTALL VIDEO DETECTION ON LUMINAIRE MAST ARM PER T 1905. SEE NOTE 5.* - *INSTALL PRE-EMPTION PER T 1902. SEE NOTE 2.* - *INSTALL SNS. SEE NOTE 3.* - *INSTALL R10-101 SIGN. SEE NOTE 7.*	STA. 50+48.63, OFF. 84.03' LT
(I) 	'TYPE 2 STREET LIGHT' T 445	--	20'	VII T 905 XI T 909	G (NOTE 4) F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(R)	T 445	- *INSTALL LED LUMINAIRE. SEE NOTE 6.*	STA. 50+59.17 OFF. 73.22' LT
(J) 	'W' ADOT T-SL 4-17	65'	20'	II T 901 II T 901 II T 901 V T 903 XI T 909	G (NOTE 4)* F T 801* F T 801* PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T-SL 4-17	- *INSTALL LED LUMINAIRE. SEE NOTE 6.* - *INSTALL VIDEO DETECTION ON LUMINAIRE MAST ARM PER T 1905. SEE NOTE 5.* - *INSTALL PRE-EMPTION PER T 1902. SEE NOTE 2.* - *INSTALL SNS. SEE NOTE 3.* - *INSTALL R10-101 SIGN. SEE NOTE 7.*	STA. 50+63.13, OFF. 61.51' RT
(K) 	EXIST. 'G'	--	EXIST. 20.	VII T 905 XI EXIST.	G (NOTE 4) F EXIST. M/H EXIST.	EXIST.	EXIST.	-	APPROX. AS SHOWN

* ALL SIGNALS MOUNTED ON MAST ARM SHALL BE MOUNTED WITH HOUSING THAT IS ONE PIECE, CORROSION RESISTANT, DIE CAST OR PERMANENT MOLD CAST ALUMINUM CONFORMING TO ITE STANDARDS.

EQUIPMENT NOTES (THIS SHEET ONLY):

1. *ALL STATION OFFSETS ARE MEASURED FROM THE 22ND STREET CONSTRUCTION CENTER LINE TO THE CENTER OF THE POLE.*
2. *FOR PREEMPTION EQUIPMENT SPECIFICATIONS, SEE TRAFFIC SIGNAL GENERAL NOTES 27, 28, AND 29 ON SHEET TS01. PREEMPTION EQUIPMENT SHALL BE CENTERED BETWEEN THE OUTBOARD SIGNAL HEAD AND THE ADJACENT SIGNAL HEAD.*
3. *THE SNS SHALL BE MOUNTED ON NEW FLAG POLE ARMS PER PIMA COUNTY AND CITY OF TUCSON SIGNING AND PAVEMENT MARKING MANUAL SHEET 4.6A.*
4. *TYPE "G" HEADS SHALL BE PER ADOT T.S.8-2 POPULATED RED ARROW, YELLOW ARROW, FLASHING YELLOW ARROW, GREEN ARROW, SEE SHEET TS01.*
5. *VISION 3 CONDUCTOR CABLE SHALL BE INSTALLED, UNSPLICED FROM THE VIDEO CAMERA MOUNTING (ATTACHED TO THE SIGNAL OR LUMINAIRE MAST ARM) TO THE CONTROL CABINET.*
6. *FOR LUMINAIRE SPECIFICATIONS, SEE TRAFFIC SIGNAL GENERAL NOTE 30 ON SHEET TS01.*
7. *INSTALL R10-101 SIGN ON SIGNAL MAST ARM. EDGE OF SIGN PANEL SHALL BE 2' FROM THE OUTBOARD SIGNAL HEAD.*
8. *POLE SHALL BE A TYPE R POLE WITH AN EXTENDED HEIGHT OF 40 FT. REFERENCE VALMONT DRAWING AZ236167P30 ON TRAFFIC SHEET TS03 AND TS04, CITY OF TUCSON CCTV POLE DETAIL TS2.*

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CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
CONDUIT SIZE IN INCHES																															
CONDUIT PHASE																															
(#14) 16 CONDUCTOR IMSA CABLE																															
#10 XHHW/THW																															
#10 XHHW/ THW																															
#6 XHHW/ THW																															
3 COND TOMAR M913 CABLE																															
VISION CABLE																															
ITS																															
#8 BARE																															

TO BE COMPELETED AT 90%

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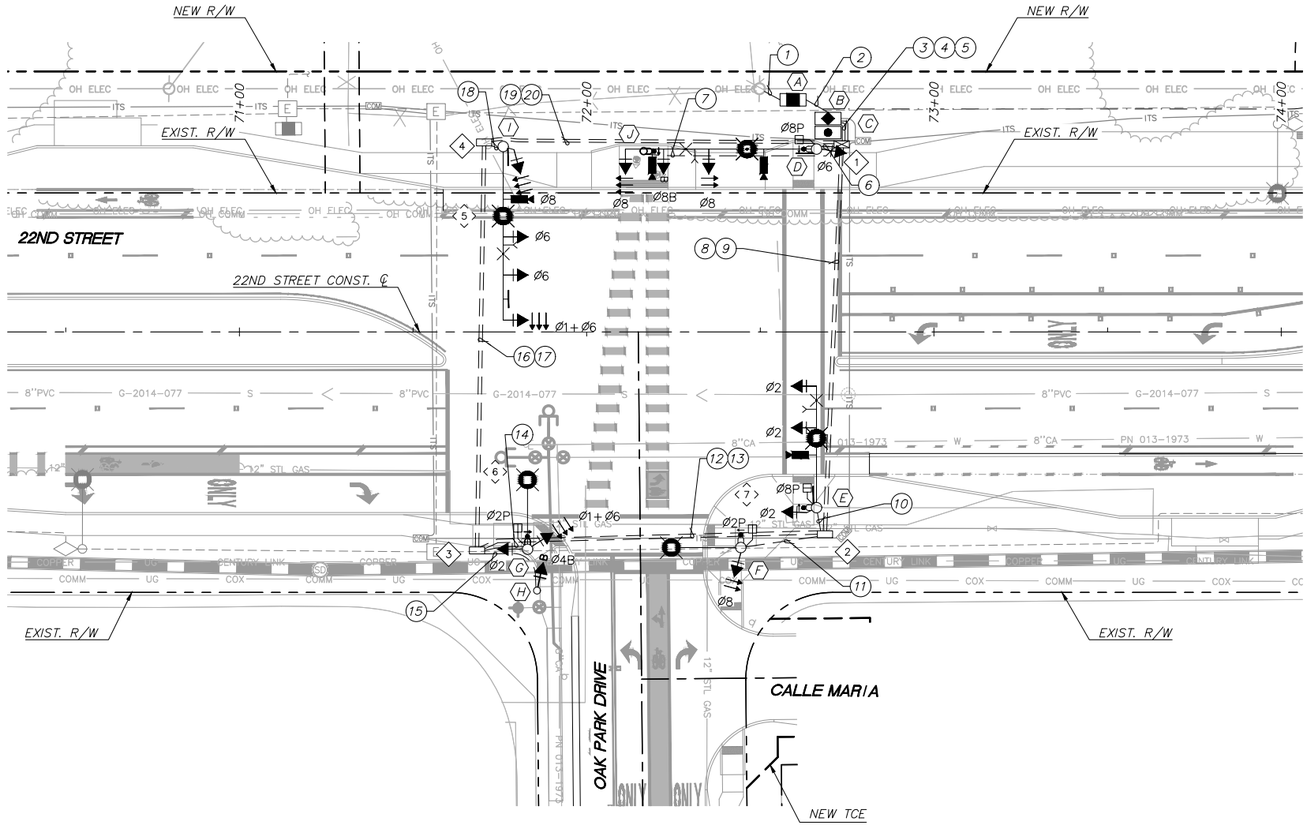
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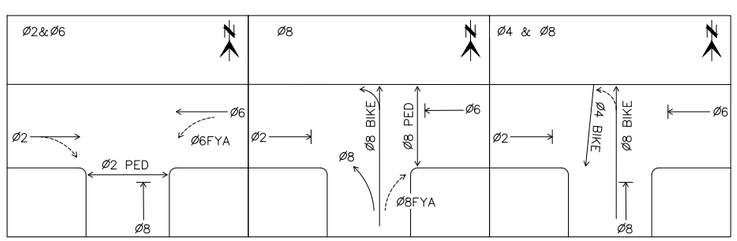
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL CONDUCTOR SCHEDULE - CAMINO SECO

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004





PROPOSED PHASING DETAIL

0 20' 40'
SCALE: 1"=20'

PULL BOX DEMO SCHEDULE

NO.	TYPE	STATION	OFFSET
◇5◇	#7E	71+76.21	34.12' LT
◇6◇	#7	71+72.97	44.96' RT
◇7◇	#7	72+51.00	42.73' RT

PULL BOX SCHEDULE

NO.	TYPE	STATION	OFFSET
◇1◇	#7E	72+73.42	54.02' LT
◇2◇	#7	72+68.61	58.25' RT
◇3◇	#7	71+68.44	62.92' RT
◇4◇	#7	71+70.47	54.56' LT

NO.	DATE	REVISION	BY	CHKD.	APPR.

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NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL PLAN SHEET - OAK PARK DRIVE

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

TS08 OF TS19
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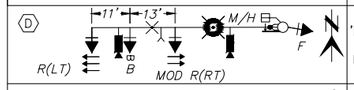
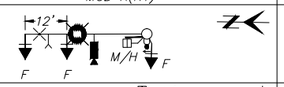
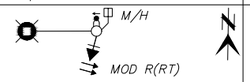
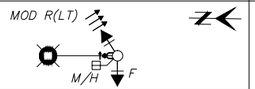
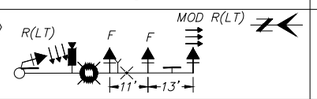
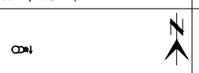
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CABINET SCHEDULE

CABINET	TYPE	CONTROLLER	AUX. CONTROL	FOUNDATION	REMARKS	LOCATION
Ⓐ	MEYERS 125 AMP 120/240V MEUG16–125	METERED SERVICE PEDESTALL WITH 125 AMP MAIN CIRCUT BREAKER	–	T 1801		STA. 71+32.19, OFF. 55.99' LT
Ⓑ	NEW TYPE V CABINET TS2, R77, 16 BAY	NEW COBALT CONTROLLER WITH ALPHA FXM1100	VIDEO ENCODER AND ETHERNET SWITCH	T 203	INSTALL 3'x4' CONCRETE PAD FOR MAINTENANCE. CONTRACTOR TO INSTALL CITY FURNISHED EQUIPMENT.	STA. 71+50.74, OFF. 58.51' LT
Ⓒ	UNINTERRUPTIBLE POWER SUPPLY	–	–	–	ATTACH TO CONTROLLER CABINET. CONTRACTOR TO INSTALL CITY FURNISHED EQUIPMENT.	STA. 71+50.74, OFF. 54.46' LT

POLE SCHEDULE

POLE NUMBER	POLE TYPE	MAST ARM		SIGNALS		PED PB	FNDTN	REMARKS	LOCATION
		SIG	LUM	MTG	ASSEM				
Ⓓ 	'R–CCTV' SEE NOTE 11	55'	20'	II T 901 II T 901 II T 901 V T 903 XI T 909	R(LT) (NOTE 12)* B (NOTE 5)* MOD R(RT) (NOTE 10)* F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10–3e(R)	T 413	– *INSTALL LED LUMINAIRE. SEE NOTE 8.* – *INSTALL VIDEO DETECTION ON LUMINAIRE MAST ARM PER T 1905. SEE NOTE 7.* – *INSTALL PRE–EMPTION PER T 1902. SEE NOTE 2.* – *INSTALL SNS. SEE NOTE 3.* – *INSTALL R10–101 SIGN. SEE NOTE 9.*	STA. 72+66.17, OFF. 52.65' LT
Ⓔ 	'Q' T 412	35'	20'	II T 901 II T 901 V T 903 XI T 909	F T 801* F T 801* F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10–3e(L)	T 412	– *INSTALL LED LUMINAIRE. SEE NOTE 8.* – *INSTALL VIDEO DETECTION ON LUMINARIRE MAST ARM PER T 1905. SEE NOTE 7.* – *INSTALL PRE–EMPTION PER T 1902. SEE NOTE 2.* – *INSTALL SNS. SEE NOTE 3.*	STA. 72+66.17, OFF. 50.60' RT
Ⓕ 	'G' T 407	––	20'	V T 903 XI T 909	MOD R(RT) (NOTE 10) PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10–3e(R)	T 407	– *INSTALL LED LUMINAIRE. SEE NOTE 8.*	STA. 72+44.38, OFF. 62.08' RT
Ⓖ 	'G' T 407	––	20'	VII T 905 XI T 909	MOD R(LT) (NOTE 6) F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10–3e(L)	T 407	– *INSTALL LED LUMINAIRE. SEE NOTE 8.*	STA. 71+82.97, OFF. 62.59' RT
Ⓗ 	'A' (10') T 401	––	––	V T 901	B (NOTE 5)	––	T 401	–	STA. 71+85.70, OFF. 74.46' RT
Ⓘ 	'R' T 413	50'	20'	II T 901 II T 901 II T 901 V T 903	R(LT) (NOTE 12)* F T 801* F T 801* MOD R(LT) (NOTE 6)	––	T 413	– *INSTALL LED LUMINAIRE. SEE NOTE 8.* – *INSTALL VIDEO DETECTION ON LUMINAIRE MAST ARM PER T 1905. SEE NOTE 7.* – *INSTALL PRE–EMPTION PER T 1902. SEE NOTE 2.* – *INSTALL SNS. SEE NOTE 3.* – *INSTALL R10–101 SIGN. SEE NOTE 9.*	STA. 71+70.47, OFF. 54.56' LT
Ⓙ 	'TYPE 1 PBP' T 419	––	––	––	––	T 1101 TYPE 1 (BIKE) R10–26(L)	T 419	–	STA. 72+16.39, OFF. 52.06' LT

* ALL SIGNALS MOUNTED ON MAST ARM SHALL BE MOUNTED WITH HOUSING THAT IS ONE PIECE, CORROSION RESISTANT, DIE CAST OR PERMANENT MOLD CAST ALUMINUM CONFORMING TO ITE STANDARDS.

EQUIPMENT NOTES (THIS SHEET ONLY):

1. *ALL STATION OFFSETS ARE MEASURED FROM THE 22ND STREET CONSTRUCTION CENTER LINE TO THE CENTER OF THE POLE.*
2. *FOR PREEMPTION EQUIPMENT SPECIFICATIONS, SEE TRAFFIC SIGNAL GENERAL NOTES 27, 28, AND 29 ON SHEET TS01. PREEMPTION EQUIPMENT SHALL BE CENTERED BETWEEN THE OUTBOARD SIGNAL HEAD AND THE ADJACENT SIGNAL HEAD.*
3. *THE SNS SHALL BE MOUNTED ON NEW FLAG POLE ARMS PER PIMA COUNTY AND CITY OF TUCSON SIGNING AND PAVEMENT MARKING MANUAL SHEET 4.6A.*
4. *TYPE "G" HEADS SHALL BE PER ADOT T.S.8–2 POPULATED RED ARROW, YELLOW ARROW, FLASHING YELLOW ARROW, GREEN ARROW, SEE SHEET TS01.*
5. *TYPE "B" HEADS SHALL BE POPULATED RED BIKE, YELLOW BIKE, GREEN BIKE. SEE SHEET TS01.*
6. *TYPE "MOD R(LT)" HEADS SHALL BE POPULATED RED ARROW, YELLOW ARROW, FLASHING YELLOW ARROW. SEE SHEET TS01.*
7. *VISION 3 CONDUCTOR CABLE SHALL BE INSTALLED, UNSPLICED, FROM THE VIDEO CAMERA MOUNTING (ATTACHED TO THE SIGNAL OR LUMINAIRE MAST ARM) TO THE CONTROL CABINET.*
8. *FOR LUMINAIRE SPECIFICATIONS, SEE TRAFFIC SIGNAL GENERAL NOTE 30 ON SHEET TS01.*
9. *INSTALL R10–101 SIGN ON SIGNAL MAST ARM. EDGE OF SIGN PANEL SHALL BE 2' FROM THE OUTBOARD SIGNAL HEAD.*
10. *TYPE "MOD R(RT)" HEADS SHALL BE POPULATED RED BALL, YELLOW ARROW, FLASHING YELLOW ARROW. SEE SHEET TS01.*
11. *POLE SHALL BE A TYPE R POLE WITH AN EXTENDED HEIGHT OF 40 FT. REFERENCE VALMONT DRAWING AZ236167P30 ON TRAFFIC SHEET TS03 AND TS04, CITY OF TUCSON CCTV POLE DETAIL TS2.*
12. *TYPE "R(LT)" HEADS SHALL BE POPULATED RED ARROW, YELLOW ARROW, GREEN ARROW. SEE SHEET TS01.*

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL POLE SCHEDULE – OAK PARK DRIVE

CITY OF TUCSON

DRWN. BY I. LESSELS	CHKD. BY A. HARLINE	APPR. BY E. CHENG	SCALE: H: 1"=20' V: N/A
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
CONDUIT SIZE IN INCHES																															
CONDUIT PHASE																															
(#14) 16 CONDUCTOR IMSA CABLE																															
#10 XHHW/THW																															
#10 XHHW/THW																															
#6 XHHW/THW																															
3 COND TOMAR M913 CABLE																															
VISION CABLE																															
ITS																															
#8 BARE																															

TO BE COMPELETED AT 90%

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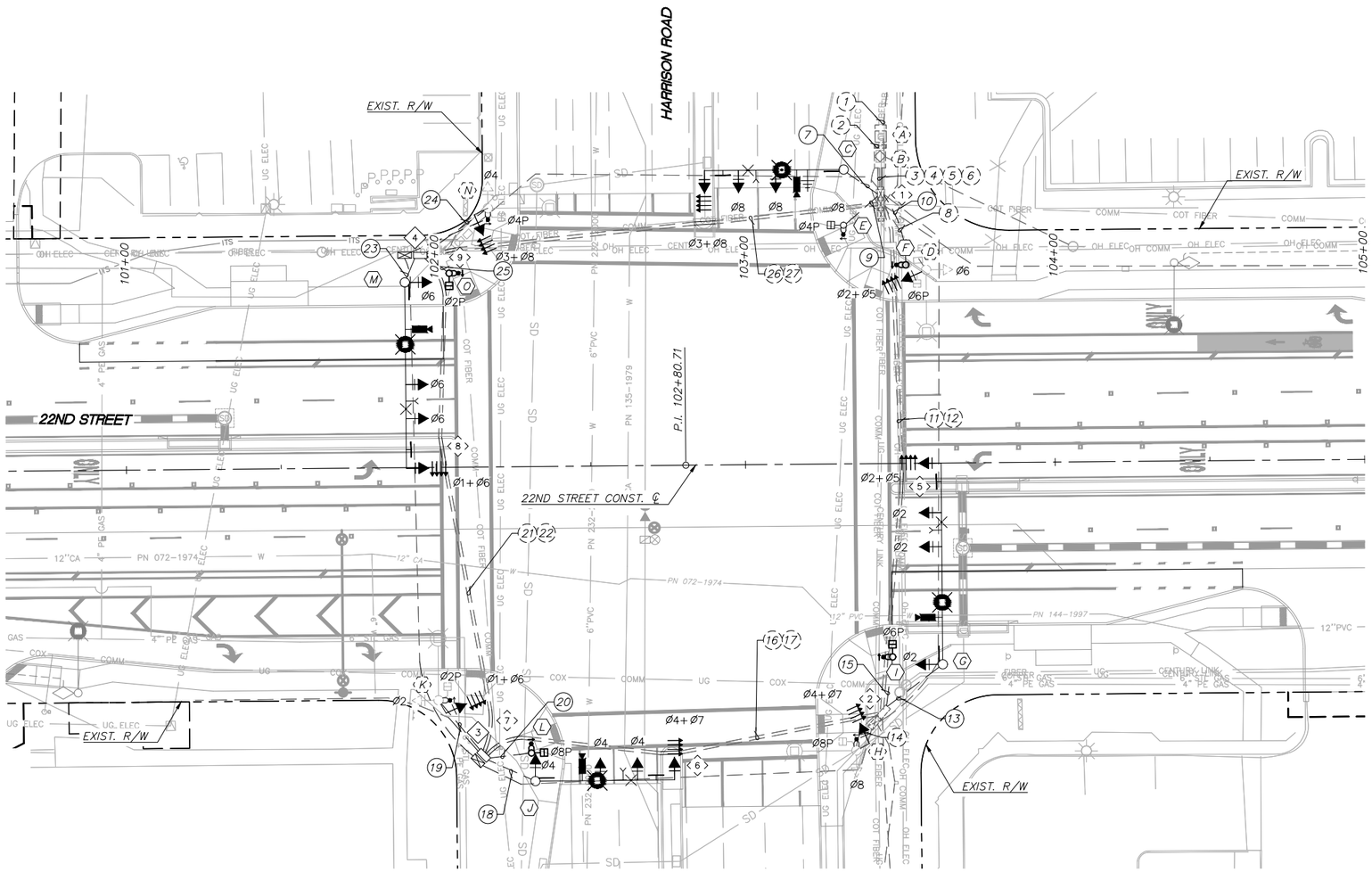
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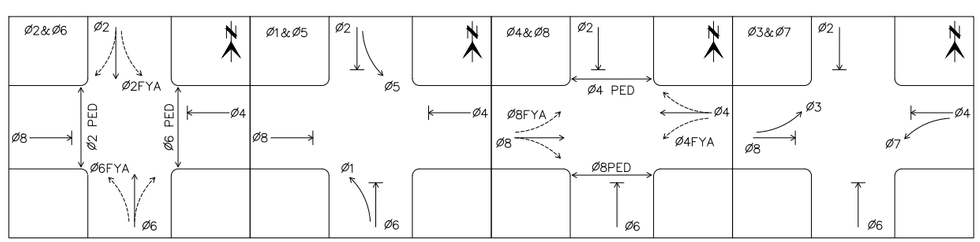
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL CONDUCTOR SCHEDULE - OAK PARK DRIVE

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004





PROPOSED PHASING DETAIL

0 20' 40'
SCALE: 1"=20'

PULL BOX DEMO SCHEDULE

NO.	TYPE	STATION	OFFSET
⟨5⟩	EXIST. #5	103+50.76	6.26' RT
⟨6⟩	EXIST. #5	102+75.03	92.79' RT
⟨7⟩	EXIST. #7	102+18.45	86.61' RT
⟨8⟩	EXIST. #5	102+01.39	6.60' LT
⟨9⟩	EXIST. #7	102+05.33	70.23' LT

PULL BOX SCHEDULE

NO.	TYPE	STATION	OFFSET
⟨1⟩	EXIST. #7E	103+44.37	87.09' LT
⟨2⟩	EXIST. #7	103+43.91	80.25' RT
◇3	#7	102+14.59	93.10' RT
◇4	#7	101+95.50	68.52' LT

Kimley»Horn

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL PLAN SHEET - HARRISON ROAD

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

TS11 OF TS19

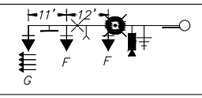
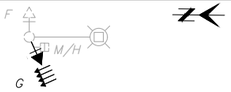
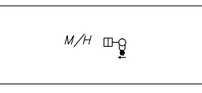
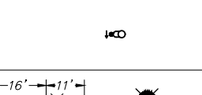
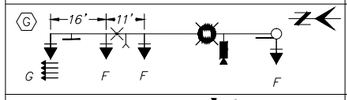
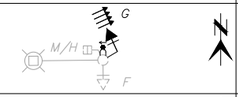
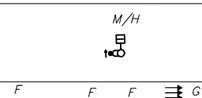
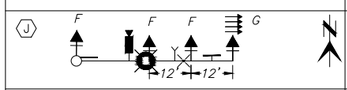
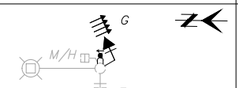
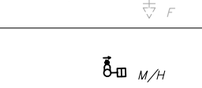
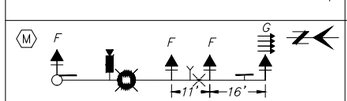
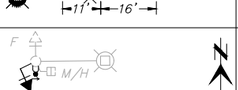
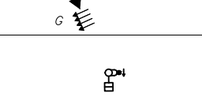
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CABINET SCHEDULE

CABINET	TYPE	CONTROLLER	AUX. CONTROL	FOUNDATION	REMARKS	LOCATION
(A)	--	--	--	--	EXIST. METER PEDESTAL TO REMAIN.	APPROX. AS SHOWN
(B)	--	--	--	--	EXIST. CONTROL CABINET TO REMAIN.	APPROX. AS SHOWN

POLE SCHEDULE

POLE NUMBER	POLE TYPE	MAST ARM		SIGNALS		PED PB	FNDTN	REMARKS	LOCATION
		SIG	LUM	MTG	ASSEM				
(C) 	'R-CCTV' SEE NOTE 8	45'	20'	II T 901 II T 901 II T 901	G (NOTE 4)* F T 801* F T 801*	--	T 413	– INSTALL LED LUMINAIRE. SEE NOTE 6. – INSTALL VIDEO DETECTION ON LUMINAIRE MAST ARM PER T 1905. SEE NOTE 5. – INSTALL PRE-EMPTION PER T 1902. SEE NOTE 2. – INSTALL SNS. SEE NOTE 3. – INSTALL R10-101 SIGN. SEE NOTE 7.	STA. 103+32.50, OFF. 95.04' LT
(D) 	EXIST. 'G'	--	EXIST. 20'	VII T 905 XI EXIST.	G (NOTE 4) F EXIST. M/H EXIST.	--	EXIST.	–	APPROX. AS SHOWN
(E) 	'A' (10') T 401	--	--	XI T 909	PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 401	–	STA. 103+32.31, OFF. 77.06' LT
(F) 	'TYPE 1 PBP' T 419	--	--	--	--	T 1101 ADA (2"PB) T 1104 R10-3e(R)	T 419	–	STA. 103+52.32 OFF. 64.10' LT
(G) 	'W' ADOT T-SL 4.17	65'	20'	II T 901 II T 901 II T 901 V T 903	G (NOTE 4)* F T 801* F T 801* F T 801	--	T-SL 4.17	– INSTALL LED LUMINAIRE. SEE NOTE 6. – INSTALL VIDEO DETECTION ON LUMINAIRE MAST ARM PER T 1905. SEE NOTE 5. – INSTALL PRE-EMPTION PER T 1902. SEE NOTE 2. – INSTALL SNS. SEE NOTE 3. – INSTALL R10-101 SIGN. SEE NOTE 7.	STA. 103+63.16, OFF. 65.00' RT
(H) 	EXIST. 'G'	--	EXIST. 20'	VII T 903 XI EXIST.	G (NOTE 4) F EXIST. M/H EXIST.	T 1101 ADA (2"PB) T 1104 R10-3e(R)	EXIST.	–	APPROX. AS SHOWN
(I) 	'A' (10') T 401	--	--	XI T 909	PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 401	–	STA. 103+46.98, OFF. 62.48' RT
(J) 	'R' T 413	45'	20'	II T 901 II T 901 II T 901 V T 903	G (NOTE 4)* F T 801* F T 801* F T 801	--	T 413	– INSTALL LED LUMINAIRE. SEE NOTE 6. – INSTALL VIDEO DETECTION ON LUMINAIRE MAST ARM PER T 1905. SEE NOTE 5. – INSTALL PRE-EMPTION PER T 1902. SEE NOTE 2. – INSTALL SNS. SEE NOTE 3. – INSTALL R10-101 SIGN. SEE NOTE 7.	STA. 102+31.22, OFF. 101.59' RT
(K) 	EXIST. 'G'	--	EXIST. 20'	VII T 903 XI EXIST.	G (NOTE 4) F EXIST. M/H EXIST.	T 1101 ADA (2"PB) T 1104 R10-3e(R)	EXIST.	–	APPROX. AS SHOWN
(L) 	'A' (10') T 401	--	--	XI T 909	PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 401	–	STA. 102+30.05, OFF. 92.48' RT
(M) 	'W' ADOT T-SL 4.17	60'	20'	II T 901 II T 901 II T 901 V T 903	G (NOTE 4)* F T 801* F T 801* F T 801	--	T-SL 4.17	– INSTALL LED LUMINAIRE. SEE NOTE 6. – INSTALL VIDEO DETECTION ON LUMINAIRE MAST ARM PER T 1905. SEE NOTE 5. – INSTALL PRE-EMPTION PER T 1902. SEE NOTE 2. – INSTALL SNS. SEE NOTE 3. – INSTALL R10-101 SIGN. SEE NOTE 7.	STA. 101+90.45, OFF. 59.83' LT
(N) 	EXIST. 'G'	--	EXIST. 20'	VII T 905 XI EXIST.	G (NOTE 4) F EXIST. M/H EXIST.	T 1101 ADA (2"PB) T 1104 R10-3e(R)	EXIST.	–	APPROX. AS SHOWN
(O) 	'A' (10') T 401	--	--	XI T 909	PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 401	–	STA. 102+04.79, OFF. 62.67' LT

* ALL SIGNALS MOUNTED ON MAST ARM SHALL BE MOUNTED WITH HOUSING THAT IS ONE PIECE, CORROSION RESISTANT, DIE CAST OR PERMANENT MOLD CAST ALUMINUM CONFORMING TO ITE STANDARDS.

EQUIPMENT NOTES (THIS SHEET ONLY):

1. *ALL STATION OFFSETS ARE MEASURED FROM THE 22ND STREET CONSTRUCTION CENTER LINE TO THE CENTER OF THE POLE.*
2. *FOR PREEMPTION EQUIPMENT SPECIFICATIONS, SEE TRAFFIC SIGNAL GENERAL NOTES 27, 28, AND 29 ON SHEET TS01. PREEMPTION EQUIPMENT SHALL BE CENTERED BETWEEN THE OUTBOARD SIGNAL HEAD AND THE ADJACENT SIGNAL HEAD.*
3. *THE SNS SHALL BE MOUNTED ON NEW FLAG POLE ARMS PER PIMA COUNTY AND CITY OF TUCSON SIGNING AND PAVEMENT MARKING MANUAL SHEET 4.6A.*
4. *TYPE "G" HEADS SHALL BE PER ADOT T.S.8-2 POPULATED RED ARROW, YELLOW ARROW, FLASHING YELLOW ARROW, GREEN ARROW, SEE SHEET TS01.*
5. *VISION 3 CONDUCTOR CABLE SHALL BE INSTALLED, UNSPLICED, FROM THE VIDEO CAMERA MOUNTING (ATTACHED TO THE SIGNAL OR LUMINAIRE MAST ARM) TO THE CONTROL CABINET.*
6. *FOR LUMINAIRE SPECIFICATIONS, SEE TRAFFIC SIGNAL GENERAL NOTE 30 ON SHEET TS01.*
7. *INSTALL R10-101 SIGN ON SIGNAL MAST ARM. EDGE OF SIGN PANEL SHALL BE 2' FROM THE OUTBOARD SIGNAL HEAD.*
8. *POLE SHALL BE A TYPE R POLE WITH AN EXTENDED HEIGHT OF 40 FT. REFERENCE VALMONT DRAWING AZ236167P30 ON TRAFFIC SHEET TS03 AND TS04, CITY OF TUCSON CCTV POLE DETAIL TS2.*

K:\TDC_Roadway\098134220_22nd Street\CADD\Sheet Files\134220ts01.dwg Aug. 21, 2025 Clarissa.DeLuna
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Kimley»Horn
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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

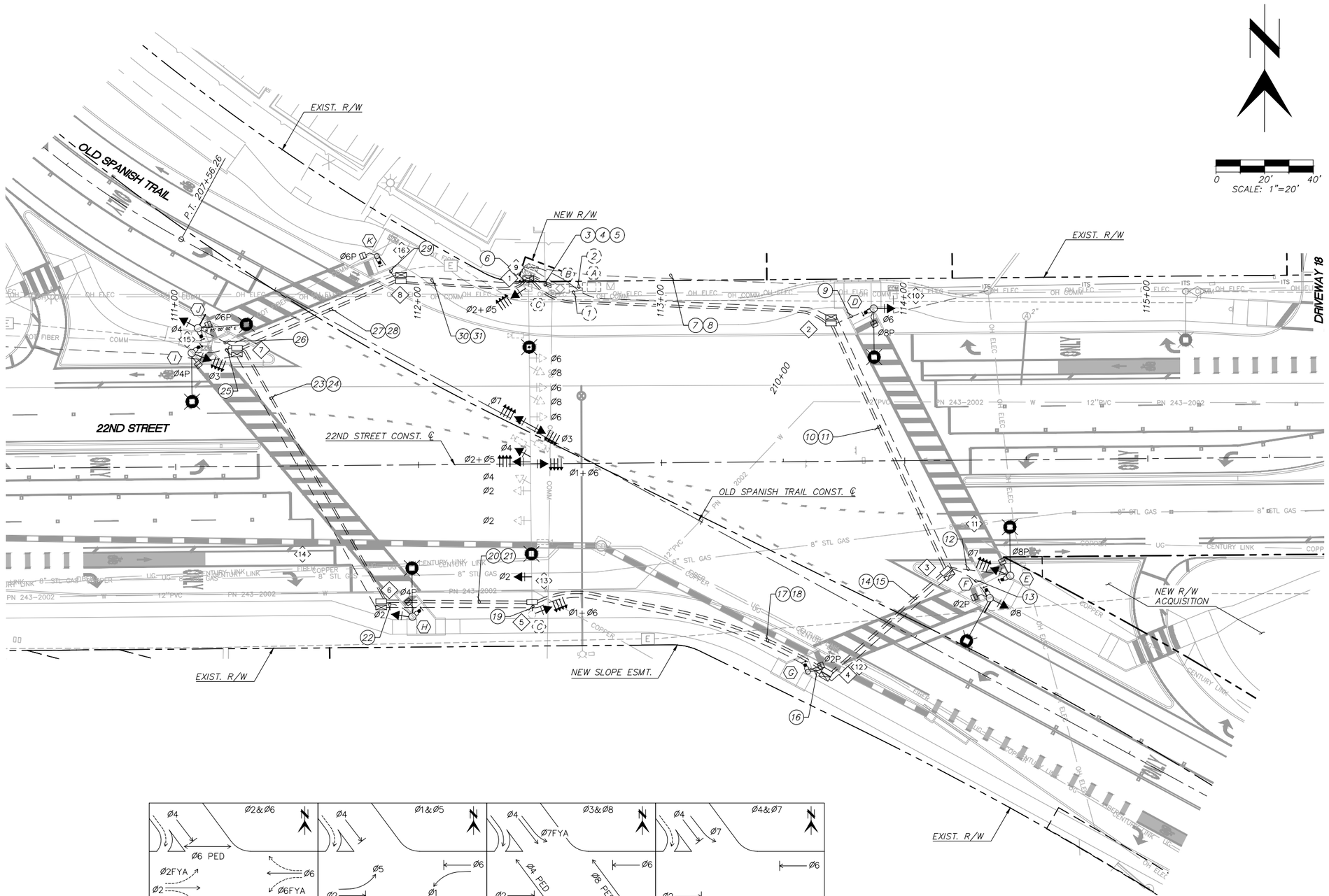
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL CONDUCTOR SCHEDULE - HARRISON ROAD

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

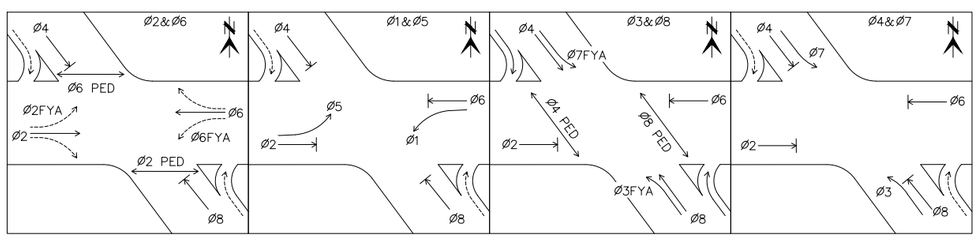
PULL BOX DEMO SCHEDULE

NO.	TYPE	STATION	OFFSET
⟨9⟩	#7E	112+46.91	79.09' LT
⟨10⟩	#7	113+95.87	68.93' LT
⟨11⟩	#7	114+30.66	32.30' RT
⟨12⟩	#7	113+67.35	86.65' RT
⟨13⟩	#7	112+46.45	52.22' RT
⟨14⟩	#7	111+46.49	39.79' RT
⟨15⟩	#7	111+13.67	52.73' LT
⟨16⟩	#7	111+90.20	92.60' LT



PULL BOX SCHEDULE

NO.	TYPE	STATION	OFFSET
①	#7E	112+46.91	79.09' LT
②	#7	113+70.15	56.78' LT
③	#7	114+16.38	45.51' RT
④	#7	113+67.35	86.65' RT
⑤	#7	112+46.16	56.93' RT
⑥	#7	111+46.82	54.41' RT
⑦	#7	111+25.66	48.73' LT
⑧	#7	111+93.34	75.68' LT



PROPOSED PHASING DETAIL

Kimley»Horn

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL PLAN SHEET - OLD SPANISH TRAIL

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25.
CHKD. BY A. HARLINE AUG 20 25.
APPR. BY E. CHENG AUG 20 25.
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

TS14 OF TS19

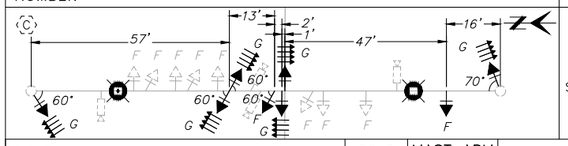
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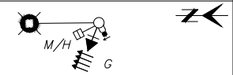
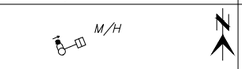
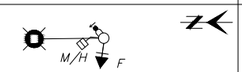
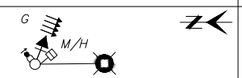
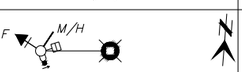
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CABINET SCHEDULE

CABINET	TYPE	CONTROLLER	AUX. CONTROL	FOUNDATION	REMARKS	LOCATION
(A)	--	--	--	--	EXIST. METER PEDESTAL TO REMAIN.	APPROX. AS SHOWN
(B)	--	--	--	--	EXIST. CONTROL CABINET TO REMAIN.	APPROX. AS SHOWN

POLE SCHEDULE

POLE NUMBER	POLE TYPE	MAST ARM SIG	MAST ARM LUM	SIGNALS MTG	SIGNALS ASSEM	PED PB	FNDTN	REMARKS	LOCATION
(C) 	EXIST. SIGNAL STRUCTURE	--	25' EXIST. 25' EXIST.	1-V T 903 5-II EXIST. 4-II T 901 1-II T 901 3-II EXIST. 1-II T 901 1-V T 903	1-G (NOTE 3) 5-F EXIST. 4-G (NOTE 3)* 1-F T 801* 3-F EXIST. 1-F T 801* 1-G (NOTE 3)	--	EXIST.	- *INSTALL LED LUMINAIRE. SEE NOTE 4.*	APPROX. AS SHOWN

POLE NUMBER	POLE TYPE	MAST ARM SIG	MAST ARM LUM	SIGNALS MTG	SIGNALS ASSEM	PED PB	FNDTN	REMARKS	LOCATION
(D) 	'G' T 407	--	20'	V T 903 XI T 909	F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(R)	T 407	- *INSTALL SNS. SEE NOTE 2.* - *INSTALL LED LUMINAIRE. SEE NOTE 4.*	STA. 113+87.77, OFF. 62.74' LT
(E) 	'G' T 407	--	20'	V T 903 XI T 909	G (NOTE 3) PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 407	- *INSTALL LED LUMINAIRE. SEE NOTE 4.*	STA. 114+43.00, OFF. 47.73' RT
(F) 	'G' T 401	--	20'	V T 903 XI T 909	F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(R)	T 401	- *INSTALL SNS. SEE NOTE 2.* - *INSTALL LED LUMINAIRE. SEE NOTE 4.*	STA. 114+34.47, OFF. 56.88' RT
(G) 	'A' T 401	--	--	XI T 909	PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 401	-	STA. 113+59.42, OFF. 86.56' RT
(H) 	'G' T 407	--	20'	V T 903 XI T 909	F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(R)	T 407	- *INSTALL LED LUMINAIRE. SEE NOTE 4.*	STA. 111+96.85, OFF. 62.49' RT
(I) 	'G' T 407	--	20'	V T 903 XI T 909	G (NOTE 3) PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 407	- *INSTALL LED LUMINAIRE. SEE NOTE 4.*	STA. 111+06.97, OFF. 46.85' LT
(J) 	'G' T 407	--	20'	V T 903 XI T 909	F T 801 PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(R)	T 407	- *INSTALL SNS. SEE NOTE 2.* - *INSTALL LED LUMINAIRE. SEE NOTE 4.*	STA. 111+09.63, OFF. 57.04' LT
(K) 	'A' T 401	--	--	XI T 909	PS T 804(LED)	T 1101 ADA (2"PB) T 1104 R10-3e(L)	T 401	-	STA. 111+83.52, OFF. 86.08' LT

* ALL SIGNALS MOUNTED ON MAST ARM SHALL BE MOUNTED WITH HOUSING THAT IS ONE PIECE, CORROSION RESISTANT, DIE CAST OR PERMANENT MOLD CAST ALUMINUM CONFORMING TO ITE STANDARDS.

EQUIPMENT NOTES (THIS SHEET ONLY):

1. *ALL STATION OFFSETS ARE MEASURED FROM THE 22ND STREET CONSTRUCTION CENTER LINE TO THE CENTER OF THE POLE.*
2. *THE SNS SHALL BE MOUNTED ON NEW FLAG POLE ARMS PER PIMA COUNTY AND CITY OF TUCSON SIGNING AND PAVEMENT MARKING MANUAL SHEET 4.6A.*
3. *TYPE "G" HEADS SHALL BE PER ADOT T.S.8-2 POPULATED RED ARROW, YELLOW ARROW, FLASHING YELLOW ARROW, GREEN ARROW, SEE SHEET TS01.*
4. *FOR LUMINAIRE SPEDICICATIONS, SEE TRAFFIC SIGNAL GENERAL NOTE 30 ON SHEET TS01.*

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL POLE SCHEDULE - OLD SPANISH TRAIL

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
CONDUIT SIZE IN INCHES																															
CONDUIT PHASE																															
(#14) 16 CONDUCTOR IMSA CABLE																															
#10 XHHW/THW																															
#10 XHHW/THW																															
#6 XHHW/THW																															
3 COND TOMAR M913 CABLE																															
VISION CABLE																															
ITS																															
#8 BARE																															

TO BE COMPELETED AT 90%

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NO.	DATE	REVISION	BY	CHKD.	APPR.

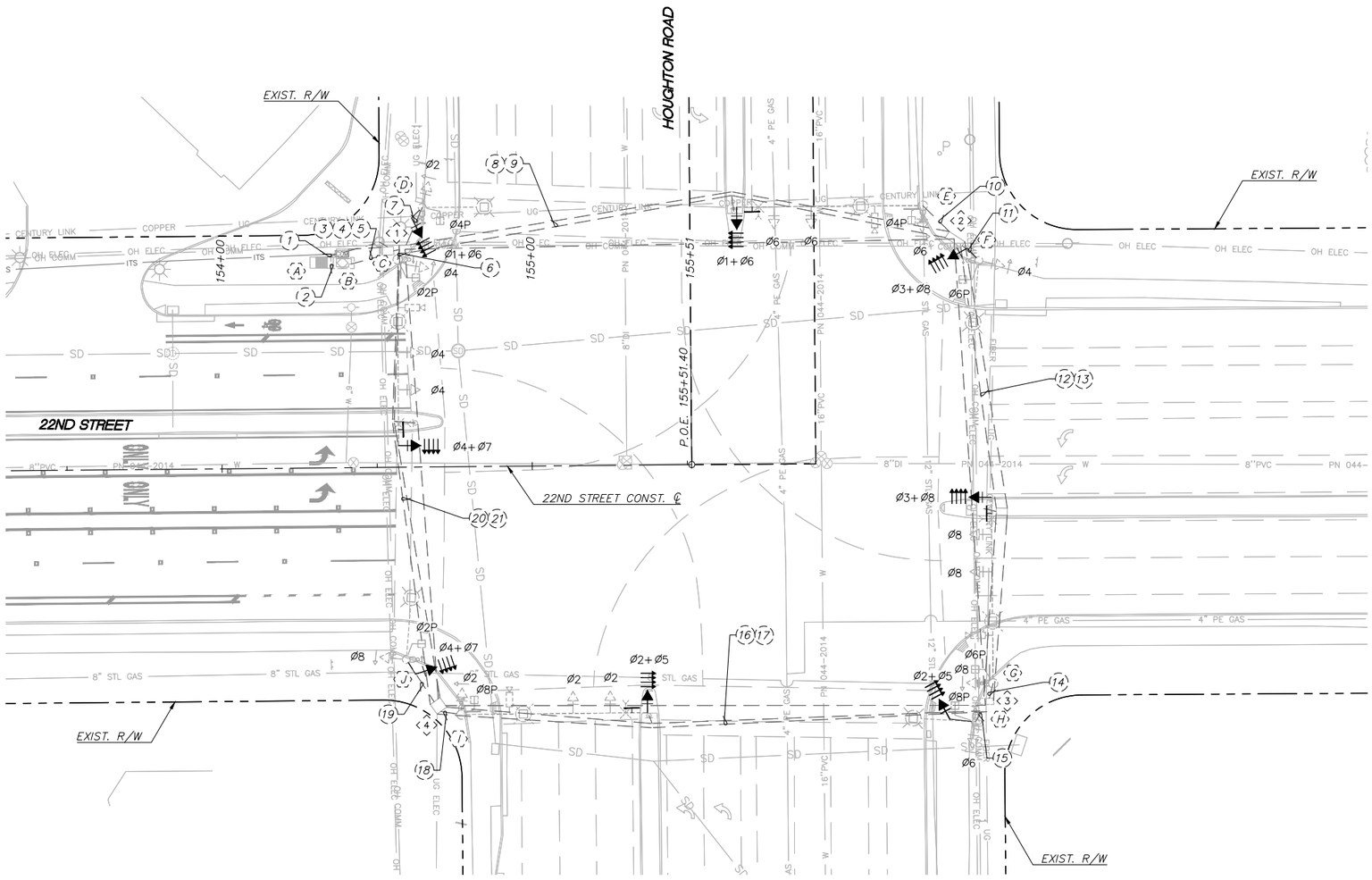
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NOT FOR CONSTRUCTION

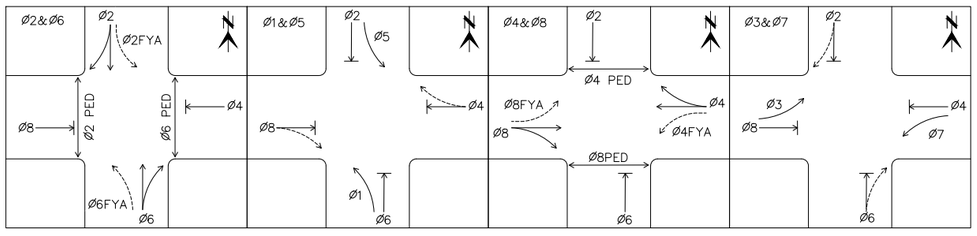
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL CONDUCTOR SCHEDULE - OLD SPANISH TRAIL

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004





PROPOSED PHASING DETAIL

PULL BOX SCHEDULE

NO.	TYPE	STATION	OFFSET
<1>	EXIST. #7E	APPROX. AS SHOWN	APPROX. AS SHOWN
<2>	EXIST. #7	APPROX. AS SHOWN	APPROX. AS SHOWN
<3>	EXIST. #7	APPROX. AS SHOWN	APPROX. AS SHOWN
<4>	EXIST. #7	APPROX. AS SHOWN	APPROX. AS SHOWN

0 20' 40'
SCALE: 1"=20'

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL PLAN SHEET – HOUGHTON ROAD

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

TS17 OF TS19

168 OF 316

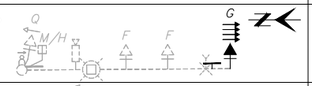
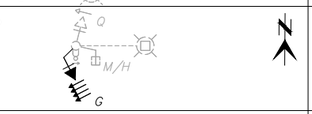
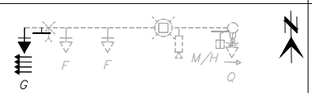
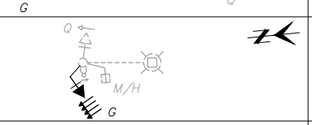
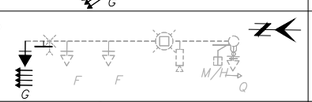
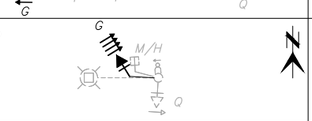
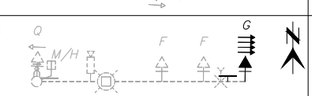
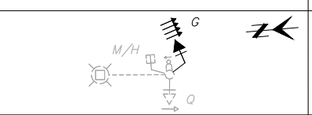
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CABINET SCHEDULE

CABINET	TYPE	CONTROLLER	AUX. CONTROL	FOUNDATION	REMARKS	LOCATION
(A)	--	--	--	--	EXIST. METER PEDESTAL TO REMAIN.	APPROX. AS SHOWN
(B)	--	--	--	--	EXIST. CONTROL CABINET TO REMAIN.	APPROX. AS SHOWN

POLE SCHEDULE

POLE NUMBER	POLE TYPE	MAST ARM		SIGNALS		PED PB	FNDTN	REMARKS	LOCATION
		SIG	LUM	MTG	ASSEM				
(C) 	EXIST. 'W'	EXIST. 60'	EXIST. 20'	II T 901 II EXIST. II EXIST. V EXIST. XI EXIST.	G (NOTE 2)* F EXIST. F EXIST. Q EXIST. M/H EXIST.	EXIST. ADA PPB TO REMAIN	EXIST.	– *INSTALL R10-101 SIGN. SEE NOTE 3.*	APPROX. AS SHOWN
(D) 	EXIST. 'TYPE 1 STREET LIGHT'	--	EXIST. 20'	VII T 905 XI EXIST.	G (NOTE 2) Q EXIST. M/H EXIST.	EXIST. ADA PPB TO REMAIN	EXIST.	–	APPROX. AS SHOWN
(E) 	EXIST. 'W'	EXIST. 60'	EXIST. 20'	II T 901 II EXIST. II EXIST. V EXIST. XI EXIST.	G (NOTE 2)* F EXIST. F EXIST. Q EXIST. M/H EXIST.	EXIST. ADA PPB TO REMAIN	EXIST.	– *INSTALL R10-101 SIGN. SEE NOTE 3.*	APPROX. AS SHOWN
(F) 	EXIST. 'TYPE 1 STREET LIGHT'	--	EXIST. 20'	VII T 905 XI EXIST.	G (NOTE 2) Q EXIST. M/H EXIST.	EXIST. ADA PPB TO REMAIN	EXIST.	–	APPROX. AS SHOWN
(G) 	EXIST. 'W'	EXIST. 60'	EXIST. 20'	II T 901 II EXIST. II EXIST. V EXIST. XI EXIST.	G (NOTE 2)* F EXIST. F EXIST. Q EXIST. M/H EXIST.	EXIST. ADA PPB TO REMAIN	EXIST.	– *INSTALL R10-101 SIGN. SEE NOTE 3.*	APPROX. AS SHOWN
(H) 	EXIST. 'TYPE 1 STREET LIGHT'	--	EXIST. 20'	VII T 905 XI EXIST.	G (NOTE 2) Q EXIST. M/H EXIST.	EXIST. ADA PPB TO REMAIN	EXIST.	–	APPROX. AS SHOWN
(I) 	EXIST. 'W'	EXIST. 60'	EXIST. 20'	II T 901 II EXIST. II EXIST. V EXIST. XI EXIST.	G (NOTE 2)* F EXIST. F EXIST. Q EXIST. M/H EXIST.	EXIST. ADA PPB TO REMAIN	EXIST.	– *INSTALL R10-101 SIGN. SEE NOTE 3.*	APPROX. AS SHOWN
(J) 	EXIST. 'TYPE 1 STREET LIGHT'	--	EXIST. 20'	VII T 905 XI EXIST.	G (NOTE 2) Q EXIST. M/H EXIST.	EXIST. ADA PPB TO REMAIN	EXIST.	–	APPROX. AS SHOWN

* ALL SIGNALS MOUNTED ON MAST ARM SHALL BE MOUNTED WITH HOUSING THAT IS ONE PIECE, CORROSION RESISTANT, DIE CAST OR PERMANENT MOLD CAST ALUMINUM CONFORMING TO ITE STANDARDS.

EQUIPMENT NOTES (THIS SHEET ONLY):

1. *ALL STATION OFFSETS ARE MEASURED FROM THE 22ND STREET CONSTRUCTION CENTER LINE TO THE CENTER OF THE POLE.*
2. *TYPE "G" HEADS SHALL BE PER ADOT T.S.8-2 POPULATED RED ARROW, YELLOW ARROW, FLASHING YELLOW ARROW, GREEN ARROW, SEE SHEET TS01.*
3. *INSTALL R10-101 SIGN ON SIGNAL MAST ARM. EDGE OF SIGN PANEL SHALL BE 2' FROM THE OUTBOARD SIGNAL HEAD.*

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL POLE SCHEDULE - HOUGHTON ROAD

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
CONDUIT SIZE IN INCHES																															
CONDUIT PHASE																															
(#14) 16 CONDUCTOR IMSA CABLE																															
#10 XHHW/THW																															
#10 XHHW/THW																															
#6 XHHW/THW																															
3 COND TOMAR M913 CABLE																															
VISION CABLE																															
ITS																															
#8 BARE																															

TO BE COMPELETED AT 90%

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
TRAFFIC SIGNAL CONDUCTOR SCHEDULE - HOUGHTON ROAD

CITY OF TUCSON

DRWN. BY I. LESSELS AUG 20 25
CHKD. BY A. HARLINE AUG 20 25
APPR. BY E. CHENG AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

GENERAL NOTES FOR STREET LIGHTING PLANS

1. THE CONTRACTOR SHALL COMPLY WITH STATE AND COUNTY STATUTES ALONG WITH THE MANUFACTURER'S RECOMMENDATIONS. MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT STANDARDS AND RECOMMENDATIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND WITH LOCAL CODES WHICH APPLY. WHERE DISCREPANCIES ARISE BETWEEN CODES, THE MOST RESTRICTIVE REGULATION SHALL APPLY.
2. 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 THEY WILL OPERATE. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONNECTION WITH OR ON BEHALF OF THE CONTRACTOR FOR BIDDING ERRORS OR NEGLIGENCE ON HIS PART.
3. PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
4. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE ENGINEER RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS.
5. THE 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 PIMA COUNTY.
6. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
7. CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF MANUFACTURER'S CERTIFIED SHOP DRAWINGS FOR EQUIPMENT TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING EQUIPMENT OR STARTING WORK.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
9. THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND PULL BOXES IN RELATION TO MAJOR PHYSICAL FEATURES. THE CONTRACTOR SHALL NOTE THAT ELEMENT LOCATIONS ARE APPROXIMATE AND MAY CHANGE DURING CONSTRUCTION. THESE CHANGES MAY RESULT IN CHANGES TO CONDUIT LENGTHS ALONG WITH MINOR QUANTITY CHANGES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE QUANTITY CHANGES.
10. CONTRACTOR SHALL STAKE ALL PROPOSED STREET LIGHT LOCATIONS AND OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO ANY INSTALLATION ACTIVITIES.
11. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR. TRENCH BACK FILL AND REPAIR SHALL BE PER PAG STANDARD DETAIL 216
12. ALL CONDUCTORS SHALL BE IDENTIFIED AT ALL PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON BACK OF THE COVERPLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
13. ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT AND FOR EACH BRANCH CIRCUIT.
14. FOR MATERIAL INSTALLED AND/OR WORK PREFORMED PRIOR TO APPROVAL, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST IF IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE PLANS AND/OR SPECIFICATIONS.
15. INSTALLATION OF EQUIPMENT, COMPONENTS, AND WIRING SHALL FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
17. ALL EQUIPMENT SHALL BE "UL" LISTED. LABEL OR LISTING OF UNDERWRITER'S LABORATORIES, INC. WILL BE ACCEPTED AS EVIDENCE THAT MATERIALS OR EQUIPMENT CONFORM TO APPLICABLE STANDARDS OF THAT AGENCY.
18. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE ENTIRE LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.
19. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, AGAINST DEFECTS IN WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT. THIS GUARANTEE IS TO BE IN WRITING TO THE RESIDENT ENGINEER AT THE TIME OF ISSUING FINAL ACCEPTANCE. WORK FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE OWNER.
20. "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL COORDINATE INSPECTION WITH RESIDENT ENGINEER. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE RESIDENT ENGINEER.
21. TRENCH, CONDUIT, AND PULL BOXES SHALL BE FURNISHED AND INSTALLED PER PAG STANDARD SPECIFICATION AND DETAILS FOR PUBLIC IMPROVEMENT, 2015 EDITION, OR LATEST EDITION AND ANY APPROVED/ACCEPTED AMENDMENT OR REVISION.

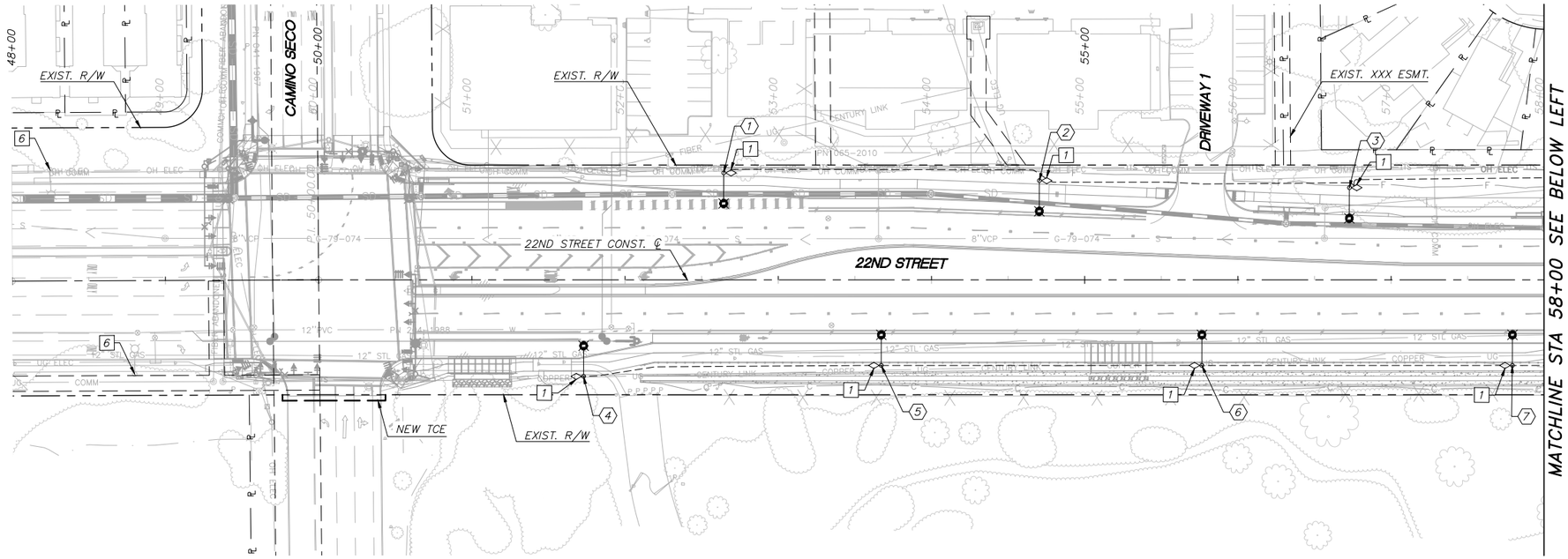
GENERAL NOTES FOR STREET LIGHTING PLANS CONT.

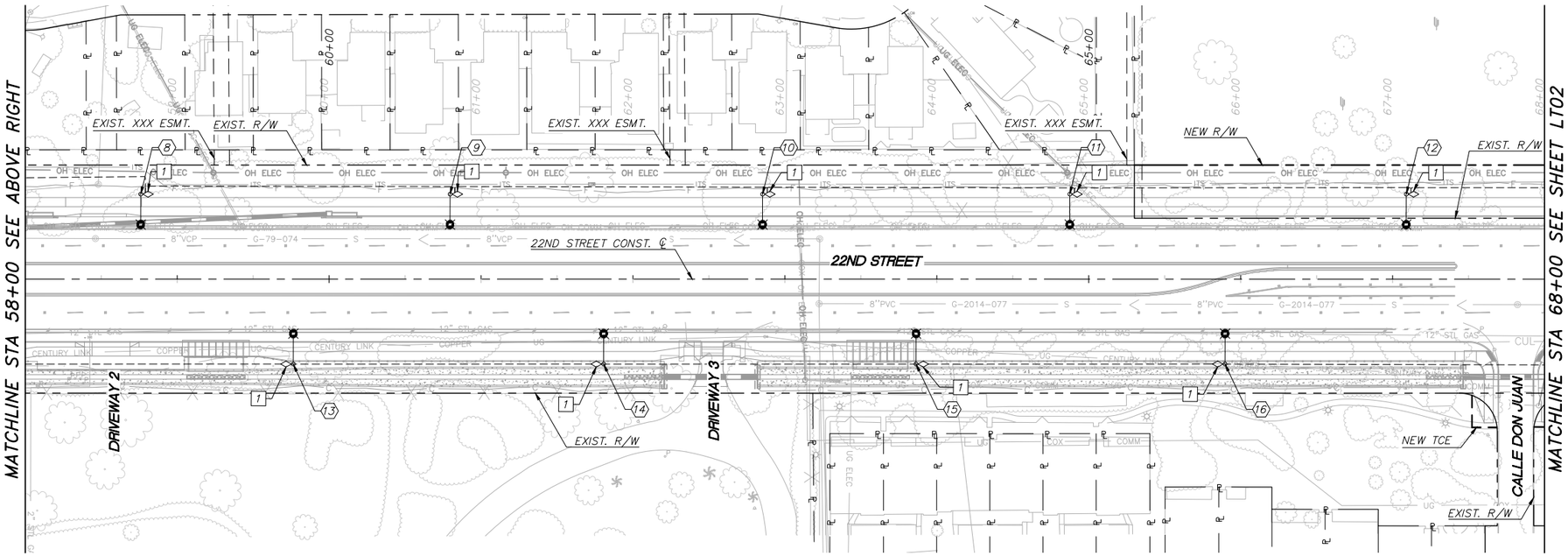
22. THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO DAMAGE WATER FACILITIES THAT ARE IN THE AREA OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE.
23. AT POLE FOUNDATIONS CLOSE TO EXISTING WATER MAINS, MAINTAIN A MINIMUM OF 5 FOOT HORIZONTAL DISTANCE FROM OUTSIDE OF POLE FOUNDATION TO THE OUTSIDE OF WATER LINE. MINIMUM HORIZONTAL SEPARATION BETWEEN EXISTING WATER MAINS AND ELECTRICAL CONDUIT IS 5 FEET FROM OUTSIDE OF WATER LINE TO OUTSIDE OF ELECTRICAL CONDUIT.
24. AT THE LOCATION WHERE MINIMUM HORIZONTAL SEPARATION CAN NOT BE MET, CONTRACTOR SHALL POTHOLE TO DETERMINE EXACT LOCATION OF WATERLINE PRIOR TO INSTALLATION OF POLE FOUNDATION AND INSTALLATION SHALL BE APPROVED BY TUCSON WATER INSPECTOR.
25. ANY CONDUIT LESS THAN 30" DEEP OR IF THE CONDUIT IS UNDER STREET CROSSING, THE CONDUIT SHALL BE ENCASED IN CONCRETE. SEE STD DTL T 713.
26. STATIONS AND OFFSETS ARE BASED ON PARK AVE CONST. CENTERLINE.
27. ALL POWER POLES AND STREET LIGHT POLES TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
28. LIGHTS SHALL BE INSTALLED PERPENDICULAR TO ROADWAY AND FACING ROADWAY.
29. PULL BOXES SHALL NOT BE INSTALLED WITHIN PROJECTED DRIVING PATH OF EXISTING DRIVEWAYS.
30. PER SD 108 PLEASE ALLOW A MINIMUM OF 12" VERTICAL SEPARATION TO TAKE PLACE BETWEEN ELECTRICAL LINES AND WATER MAINS.
31. SLEEVES ARE REQUIRED FOR ELECTRICAL CABLES AT MAINLINE CROSSINGS WITH WATER.

STREET LIGHTING EQUIPMENT LEGEND

- METER PEDESTAL
- #3 1/2 PULL BOX
- #5 PULL BOX
- TRAFFIC SIGNAL LIGHT
- TRAFFIC SIGNAL POLE
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT CONDUIT
- PROPOSED STREET LIGHT LUMINAIRE
- # CONSTRUCTION NOTE
- (#) CONDUIT NOTE
- (X) X: POLE NUMBER

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0 40' 80'
SCALE: 1"=40'

LIGHTING NOTES:

1. FURNISH AND INSTALL #3 1/2 PULL BOX PER PAG STD. DTL. T 101.
6. EXISTING PROTECT IN PLACE.

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
STREET LIGHTING PLAN SHEETS

CITY OF TUCSON

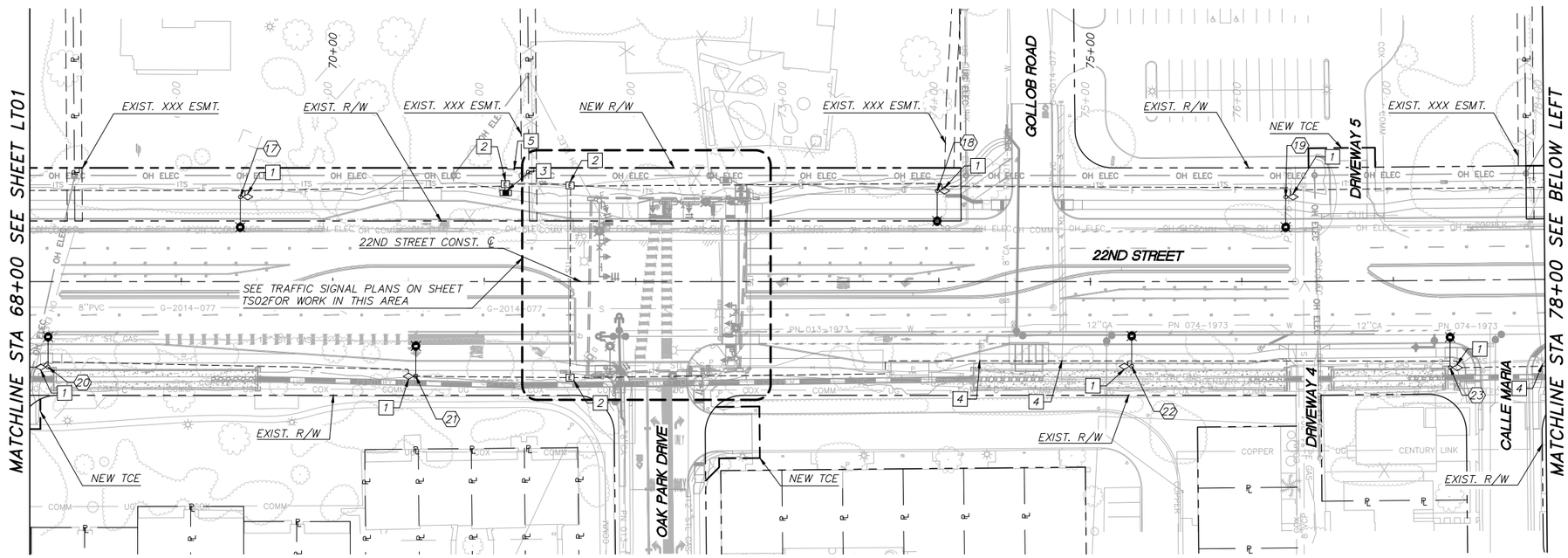
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F. KENNEY AUG 20 25	J. MODRAK AUG 20 25	M. COLOMBO AUG 20 25	1"=40'

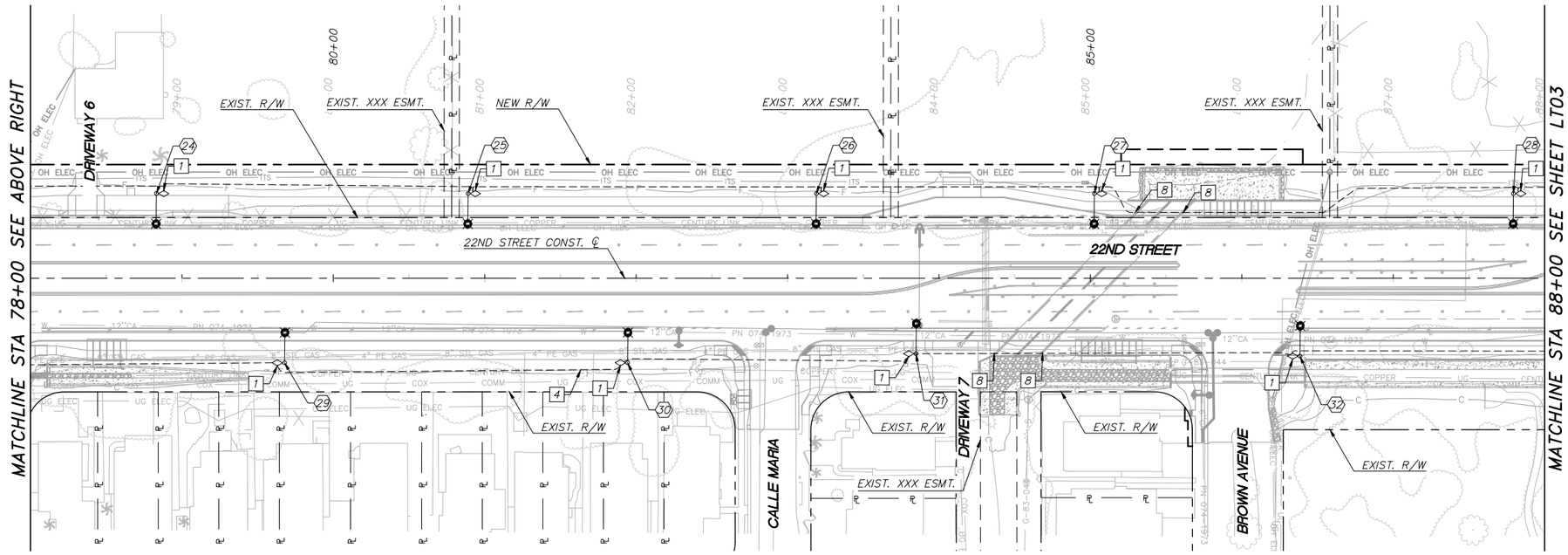
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LIGHTING NOTES:

1. FURNISH AND INSTALL #3 1/2 PULL BOX PER PAG STD. DTL. T 101.
2. FURNISH AND INSTALL #5 PULL BOX PER PAG STD DTL. T 102.
3. FURNISH AND INSTALL 120/240V 100 A 1-PHASE METER PEDESTAL PER DETAIL LT3 & LT4 ON LT08.
4. EXISTING UTILITY, PROTECT IN PLACE. MAINTAIN MININUM 12" HORIZONTAL OR VERTICAL SEPERATIONS FROM UTILITY.
5. EXTEND CONDUIT TO TEP SERVICE POINT, SEE TEP PLANS.
8. ROUTE ELECTRICAL CONDUIT BENEATH PROPOSED DRAINAGE CULVERT WITH 2' MINIMUM VERTICAL CLEARANCE FROM CULVERT.

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
STREET LIGHTING PLAN SHEETS

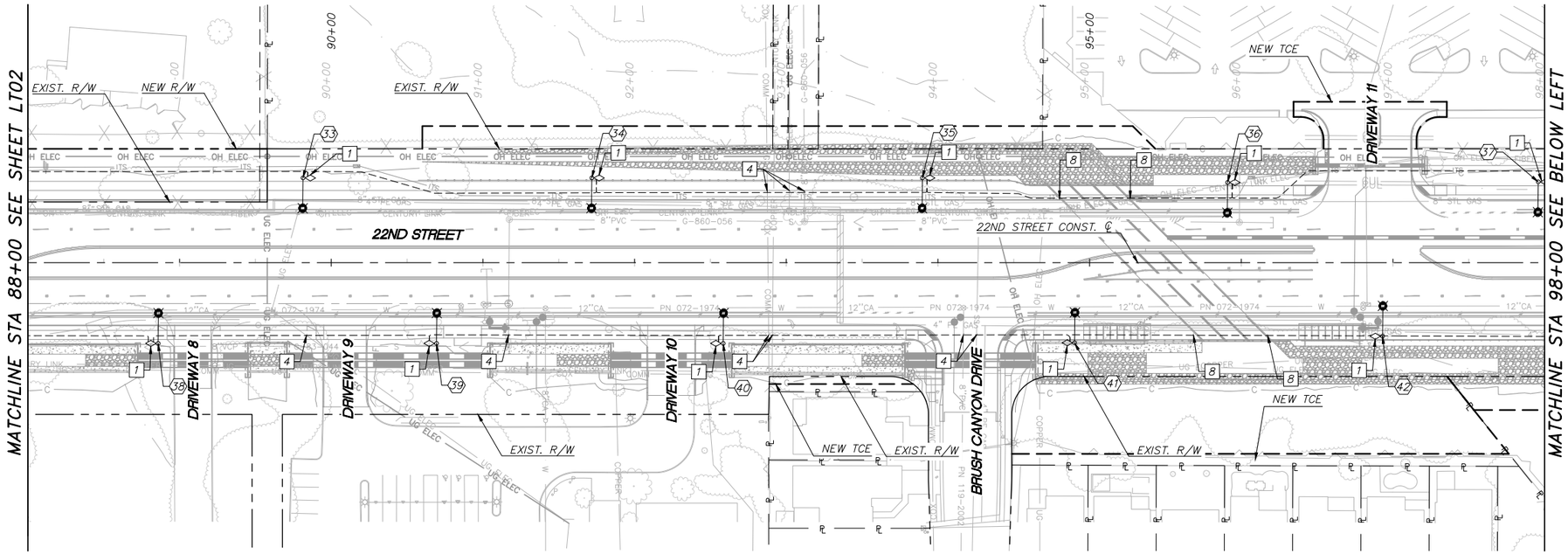
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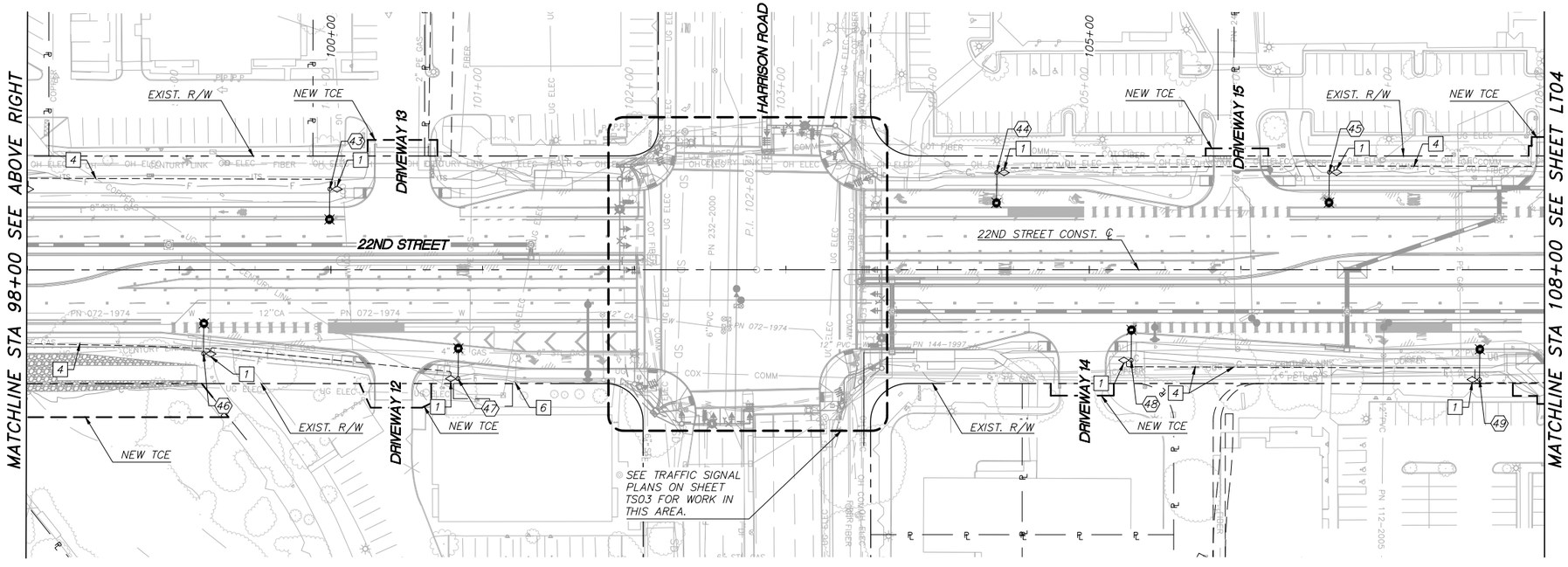
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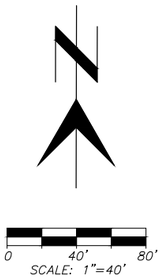
LT03 OF LT09

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LIGHTING NOTES:

1. FURNISH AND INSTALL #3 1/2 PULL BOX PER PAG STD. DTL. T 101.
4. EXISTING UTILITY, PROTECT IN PLACE. MAINTAIN MININUM 12" HORIZONTAL OR VERTICAL SEPERATIONS FROM UTILITY.
6. EXISTING PROTECT IN PLACE.
8. ROUTE ELECTRICAL CONDUIT BENEATH PROPOSED DRAINAGE CULVERT WITH 2' MINIMUM VERTICAL CLEARANCE FROM CULVERT.

NO.	DATE	REVISION	BY	CHKD.	APPR.

Kimley»Horn

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PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
STREET LIGHTING PLAN SHEETS

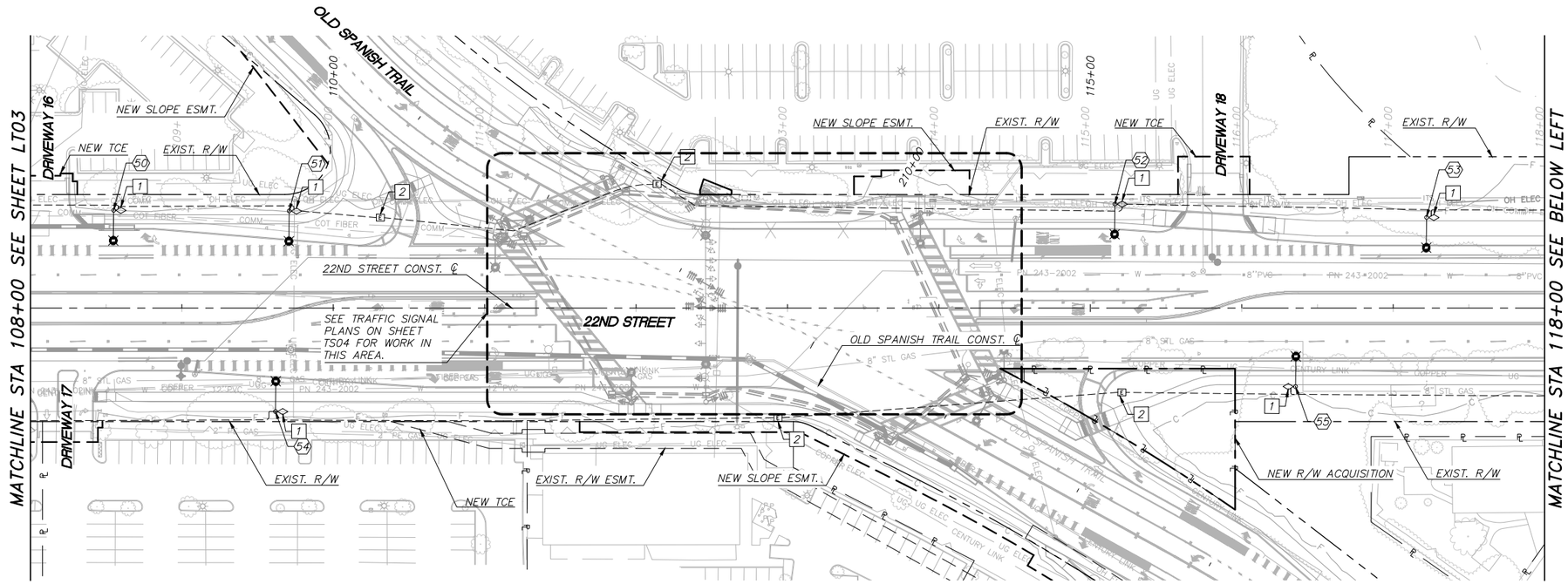
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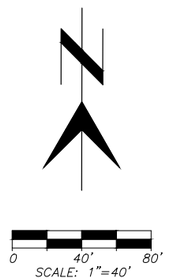
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CHKD. BY J. MODRAK AUG 20 25
APPR. BY M. COLOMBO AUG 20 25
SCALE: H: V: 1"=40'
PLAN NO. I-2025-004

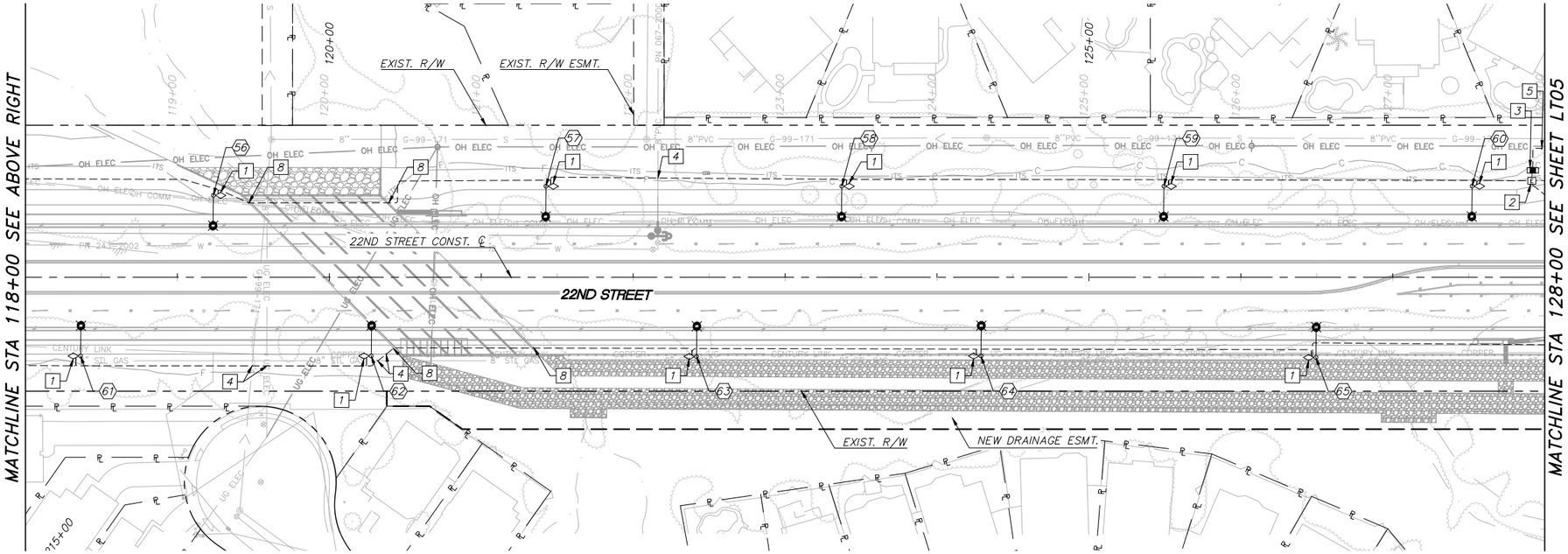
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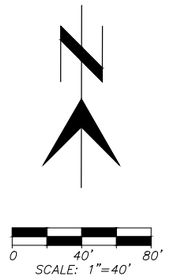
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LIGHTING NOTES:

1. FURNISH AND INSTALL #3 1/2 PULL BOX PER PAG STD. DTL. T 101.
2. FURNISH AND INSTALL #5 PULL BOX PER PAG STD DTL. T 102.
3. FURNISH AND INSTALL 120/240V 100 A 1-PHASE METER PEDESTAL PER DETAIL LT3 & LT4 ON LT08.
4. EXISTING UTILITY, PROTECT IN PLACE. MAINTAIN MININUM 12" HORIZONTAL OR VERTICAL SEPERATIONS FROM UTILITY.
5. EXTEND CONDUIT TO TEP SERVICE POINT, SEE TEP PLANS.
8. ROUTE ELECTRICAL CONDUIT BENEATH PROPOSED DRAINAGE CULVERT WITH 2' MINIMUM VERTICAL CLEARANCE FROM CULVERT.

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
STREET LIGHTING PLAN SHEETS

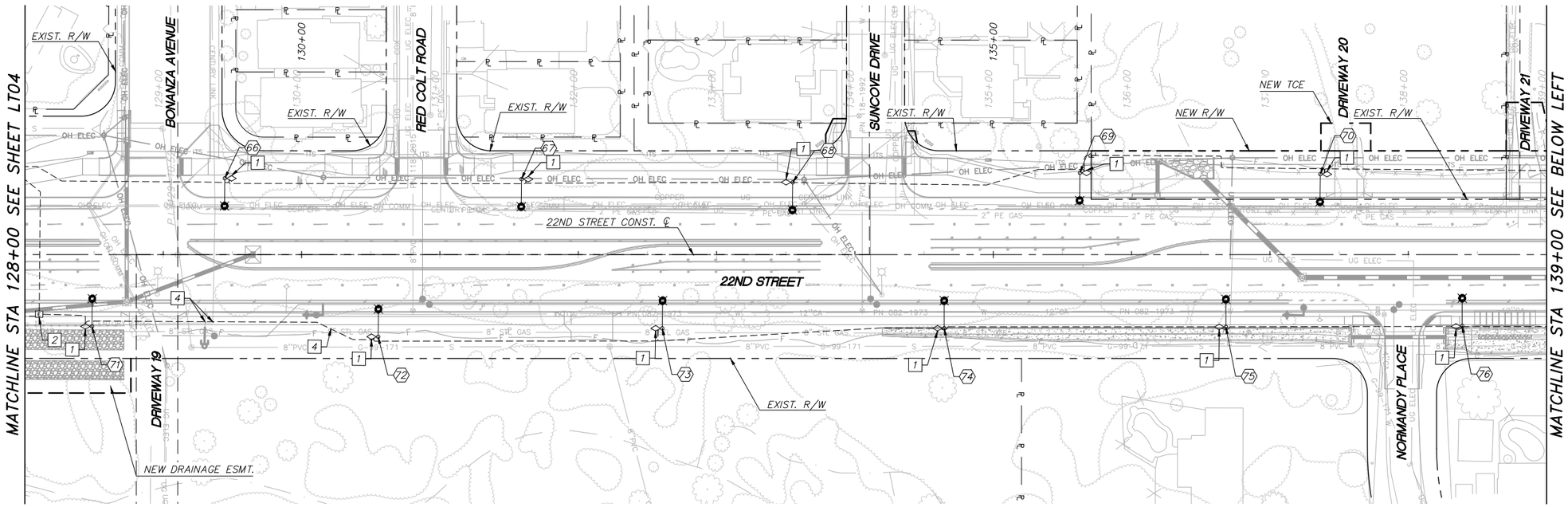
CITY OF TUCSON

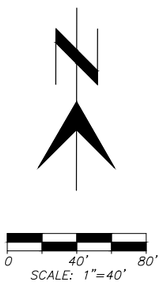
DRWN. BY F. KENNEY	CHKD. BY J. MODRAK	APPR. BY M. COLOMBO	SCALE: H: V: 1"=40'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

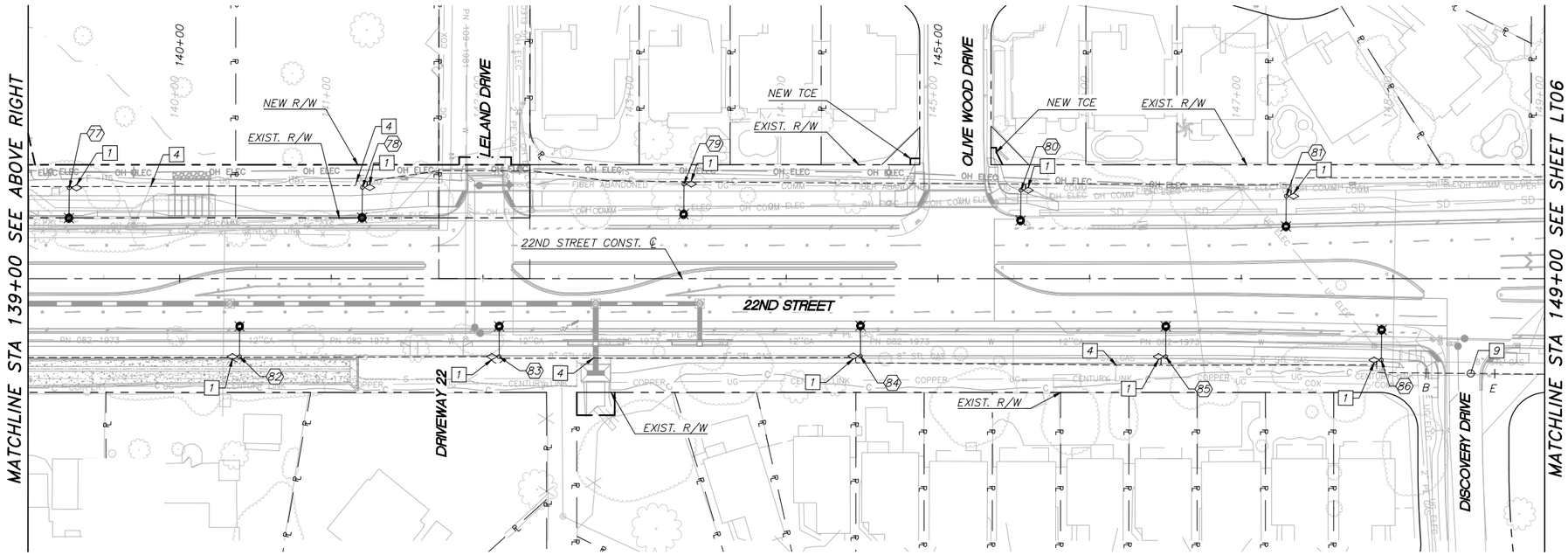
LT05 OF LT09

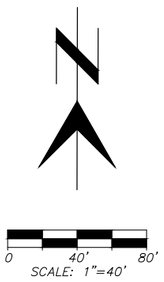
175 OF 316

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LIGHTING NOTES:

1. FURNISH AND INSTALL #3 1/2 PULL BOX PER PAG STD. DTL. T 101.
2. FURNISH AND INSTALL #5 PULL BOX PER PAG STD DTL. T 102.
4. EXISTING UTILITY, PROTECT IN PLACE. MAINTAIN MININUM 12" HORIZONTAL OR VERTICAL SEPERATIONS FROM UTILITY.
9. CONDUIT TO BE INSTALLED BY DIRECTIONAL DRILL UNDER ROADWAY.

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
STREET LIGHTING PLAN SHEETS

CITY OF TUCSON

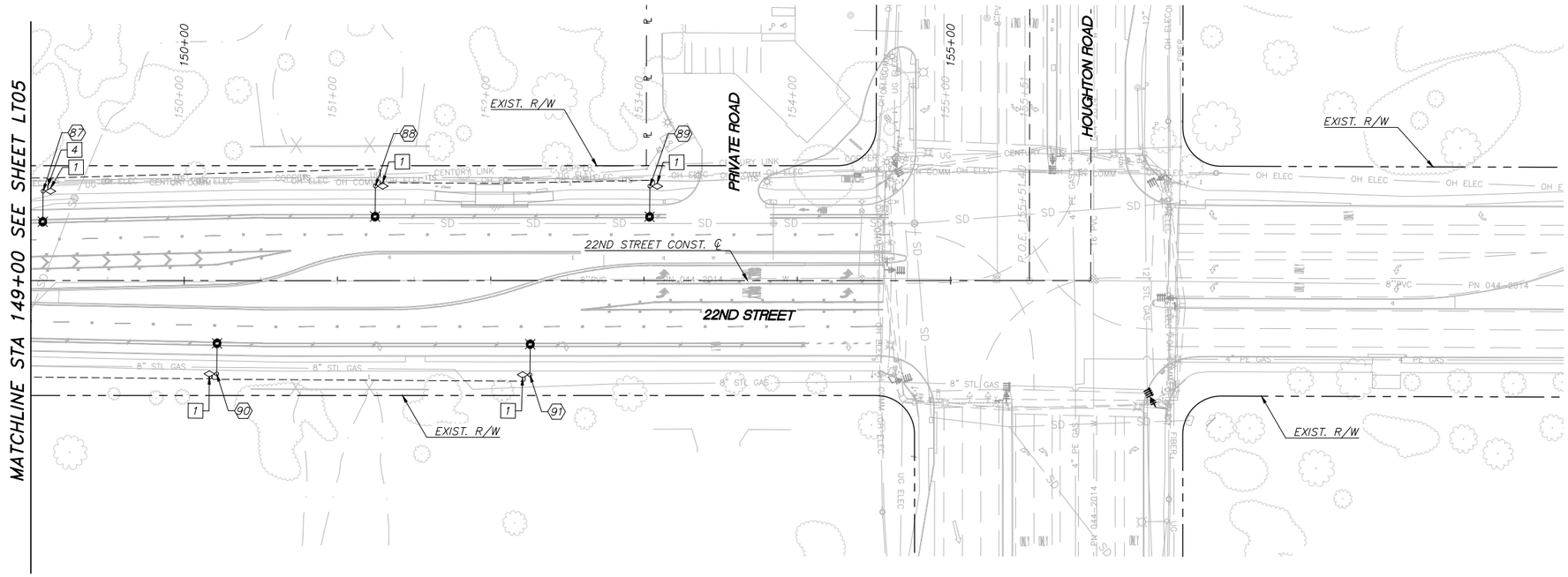
DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: V:
F. KENNEY AUG 20 25	J. MODRAK AUG 20 25	M. COLOMBO AUG 20 25	1"=40'

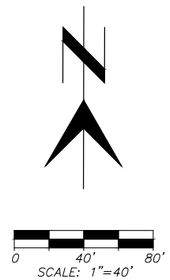
PLAN NO. I-2025-004

LT06 OF LT09

176 OF 316

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LIGHTING NOTES:

1. FURNISH AND INSTALL #3 1/2 PULL BOX PER PAG STD. DTL. T 101.
4. EXISTING UTILITY, PROTECT IN PLACE. MAINTAIN MININUM 12" HORIZONTAL OR VERTICAL SEPERATIONS FROM UTILITY.

Kimley»Horn

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
STREET LIGHTING PLAN SHEETS

CITY OF TUCSON

DRWN. BY F. KENNEY AUG 20 25
CHKD. BY J. MODRAK AUG 20 25
APPR. BY M. COLOMBO AUG 20 25
SCALE: H: V: 1"=40'
PLAN NO. I-2025-004

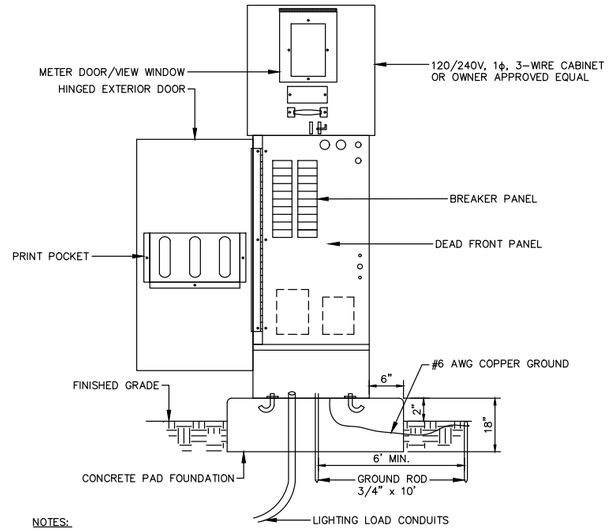
LT07 OF LT09

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XREFS: x134220elecbus x134220util-e x134220util-w x134220row-e x134220row-w x134220misc x134220str x134220lit x134220sig x134220spc x134220lts x134220dm x134229mb

22ND ST LOAD CENTER POLE AND LUMINAIRE SCHEDULE

POLE NO.	ROADWAY	STATION	OFFSET (FT.)	LOAD CENTER CABINET	CIRCUIT	POLE TYPE	MOUNTING HEIGHT	MAST ARM	FOUNDATION TYPE	LUMINAIRE TYPE	FIXTURE QUANTITY	LUMINAIRE WATTAGE	LUMINAIRE DIST. TYPE	LUMENS	CCT	MODEL NO.	MAINTENANCE UNIT NO.	NOTES
1	22ND ST	52+64.38	69.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
2	22nd ST	54+70.41	64.83 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
3	22nd ST	56+72.74	60.24 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
4	22ND ST	51+72.92	63.02 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
5	22ND ST	53+67.20	55.87 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
6	22nd ST	55+76.45	55.87 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
7	22nd ST	57+79.13	55.87 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
8	22nd ST	58+76.02	55.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
9	22nd ST	60+79.63	55.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
10	22nd ST	62+85.32	55.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
11	22nd ST	64+87.52	55.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
12	22nd ST	67+09.00	55.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
13	22nd ST	59+76.42	55.87 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
14	22nd ST	61+80.66	55.87 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
15	22nd ST	63+86.29	55.87 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
16	22nd ST	65+89.69	55.87 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
17	22nd ST	69+39.00	55.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
18	22nd ST	73+98.97	59.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
19	22nd ST	76+28.99	55.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
20	22nd ST	68+12.07	56.45 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
21	22nd ST	70+54.78	62.48 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
22	22nd ST	75+27.28	55.87 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
23	22nd ST	77+36.90	57.60 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
24	22nd ST	78+83.20	55.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
25	22nd ST	80+89.04	55.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
26	22nd ST	83+19.05	55.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
27	22nd ST	85+02.64	55.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
28	22nd ST	87+79.41	55.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
29	22nd ST	79+67.84	55.87 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
30	22nd ST	81+94.38	55.87 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
31	22nd ST	83+84.84	49.89 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
32	22nd ST	86+38.40	51.48 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
33	22nd ST	89+81.40	55.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
34	22nd ST	91+71.81	55.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
35	22nd ST	93+89.78	55.87 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
36	22nd ST	95+91.00	52.87 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
37	22nd ST	97+95.80	53.25 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
38	22nd ST	88+85.87	53.25 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
39	22nd ST	90+69.40	53.25 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
40	22nd ST	92+58.41	53.25 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
41	22nd ST	94+90.07	52.87 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
42	22nd ST	96+93.14	48.53 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
43	22nd ST	99+99.25	53.20 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
44	22nd ST	104+39.00	64.01 LT	22P1	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
45	22nd ST	106+58.25	64.22 LT	22P1	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
46	22nd ST	99+16.00	55.34 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
47	22nd ST	100+83.77	71.85 RT	22P1	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
48	22nd ST	105+27.58	59.71 RT	22P1	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
49	22nd ST	107+57.28	72.51 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
50	22nd ST	108+54.94	64.59 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
51	22nd ST	109+70.89	64.15 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
52	22nd ST	115+16.21	68.73 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
53	22nd ST	117+22.05	59.87 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
54	22nd ST	109+61.80	68.35 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
55	22nd ST	116+35.49	51.92 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
56	22nd ST	119+23.70	53.88 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
57	22nd ST	121+42.61	59.87 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
58	22nd ST	123+37.35	59.87 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
59	22nd ST	125+49.35	59.87 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
60	22nd ST	127+52.21	59.94 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
61	22nd ST	118+36.32	51.90 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
62	22nd ST	120+27.63	51.87 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
63	22nd ST	122+41.71	51.90 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
64	22nd ST	124+28.92	51.90 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
65	22nd ST	126.49.37	52.87 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
66	22nd ST	129+44.52	55.16 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
67	22nd ST	131+59.62	54.62 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
68	22nd ST	133+54.99	52.25 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
69	22nd ST	135+62.63	59.09 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
70	22nd ST	137+36.37	58.17 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
71	22nd ST	128+48.49	51.89 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
72	22nd ST	130+55.35	59.36 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
73	22nd ST	132+60.67	53.25 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
74	22nd ST	134+64.53	53.25 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
75	22nd ST	136+68.15	52.25 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
76	22nd ST	138+38.96	51.48 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
77	22nd ST	139+27.25	59.85 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
78	22nd ST	141+20.52	60.10 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
79	22nd ST	143+32.52	62.37 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
80	22nd ST	145+54.68	58.25 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
81	22nd ST	147+29.65	54.36 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
82	22nd ST	140+39.55	51.48 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
83	22nd ST	142+10.68	51.48 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
84	22nd ST	144+48.91	51.10 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
85	22nd ST	146+50.18	51.48 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
86	22nd ST	147+92.28	53.74 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
87	22nd ST	149+08.01	58.40 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
88	22nd ST	151+24.77	61.74 LT	22P2	1/3	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
89	22nd ST	153+03.83	61.63 LT	22P2	5/7	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
90	22nd ST	150+21.25	60.95 RT	22P2	6/8	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE
91	22nd ST	152+25.58	61.52 RT	22P2	2/4	NEW TYPE 2	35 FT	20'	NEW TYPE 2 STANDARD DETAIL LT 1	LED	1	94W	TYPE III	12,060	3000K	ATBM-P10-MVOLT-R3-3K-P7-HSS		PROVIDE NEW FIXTURE(S) ON NEW POLE


METER DOOR/VIEW WINDOW
HINGED EXTERIOR DOOR
120/240V, 1ϕ, 3-WIRE CABINET OR OWNER APPROVED EQUAL
BREAKER PANEL
DEAD FRONT PANEL
PRINT POCKET
#6 AWG COPPER GROUND
FINISHED GRADE

PANEL NAME: 22P1 (22ND ST)

LOCATION: CORNER
SUPPLY FROM: UTILITY
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 120/240V
PHASES: 1
WIRES: 3

AIC RATING: 14K Fully Rated
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

CKT	CIRCUIT DESCRIPTION	LOAD TYPE	TRIP	POLES	A (VA)		B (VA)		POLES	TRIP	LOAD TYPE	CIRCUIT DESCRIPTION	CKT
1	Lighting Circuit	L	20	2	508	508			2	20	L	Lighting Circuit	2
3							508	508					4
5	Lighting Circuit	L	20	2	508	508			2	20	L	Lighting Circuit	6
7							508	508					8
9													10
11													12
			TOTAL LOAD:		2,030 VA		2,030 VA						
			TOTAL AMPS:		16.9 A		16.9 A						

LOAD CLASSIFICATION	CONNECTED LOAD: (VA)	DEMAND FACTOR	EST. DEMAND (VA)	PANEL TOTALS	
LARGEST MOTOR LOAD (M)	0.0	125.00%	0.0	TOTAL CONN. LOAD (VA):	4060.8
HVAC (H) & ALL OTHER MOTORS (M)	0.0	100.00%	0.0	TOTAL EST. DEMAND (VA):	2538
RECEPTACLE (R)	0.0	100.00%	0.0	TOTAL CONN. (A):	16.9
LIGHTING (L)	2030.4	125.00%	2538.0	TOTAL EST. DEMAND (A):	10.6
EQUIPMENT (E)	0.0	100.00%	0.0	PERCENT LOADED:	11%
OTHER (O) (SEE NOTES)	0.0	0.00%	0.0		

SCHEDULE LT 5
22P1 PANEL SCHEDULE
N.T.S.

PANEL NAME: 22P2 (22ND ST)

LOCATION: CORNER
SUPPLY FROM: UTILITY
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTS: 120/240V
PHASES: 1
WIRES: 3

AIC RATING: 14K Fully Rated
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

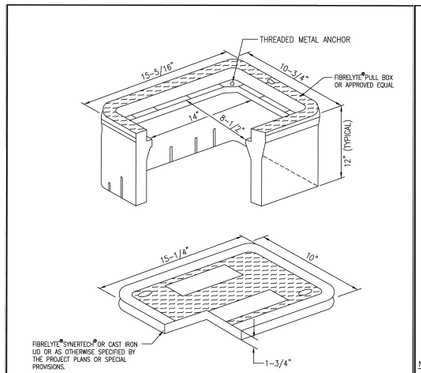
CKT	CIRCUIT DESCRIPTION	LOAD TYPE	TRIP	POLES	A (VA)		B (VA)		POLES	TRIP	LOAD TYPE	CIRCUIT DESCRIPTION	CKT
1	Lighting Circuit	L	20	2	465	465			2	20	L	Lighting Circuit	2
3							465	465					4
5	Lighting Circuit	L	20	2	465	423			2	20	L	Lighting Circuit	6
7							465	423					8
9													10
11													12
			TOTAL LOAD:		1,819 VA		1,819 VA						
			TOTAL AMPS:		15.2 A		15.2 A						

LOAD CLASSIFICATION	CONNECTED LOAD: (VA)	DEMAND FACTOR	EST. DEMAND (VA)	PANEL TOTALS	
LARGEST MOTOR LOAD (M)	0.0	125.00%	0.0	TOTAL CONN. LOAD (VA):	3637.8
HVAC (H) & ALL OTHER MOTORS (M)	0.0	100.00%	0.0	TOTAL EST. DEMAND (VA):	2273.625
RECEPTACLE (R)	0.0	100.00%	0.0	TOTAL CONN. (A):	15.2
LIGHTING (L)	1818.9	125.00%	2273.6	TOTAL EST. DEMAND (A):	9.5
EQUIPMENT (E)	0.0	100.00%	0.0	PERCENT LOADED:	10%
OTHER (O) (SEE NOTES)	0.0	0.00%	0.0		

SCHEDULE LT 6
22P2 PANEL SCHEDULE
N.T.S.

TO BE ADDED AT NEXT SUBMITTAL

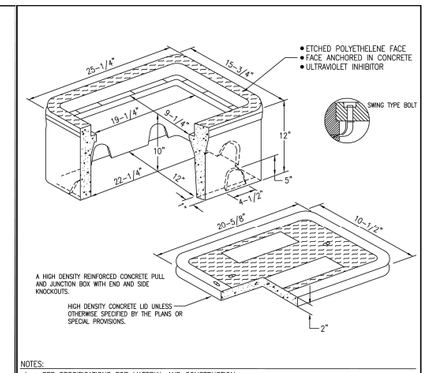
SCHEDULE LT 7
CONDUIT AND CONDUCTOR SCHEDULE
N.T.S.



NOTES:
1. SEE SPECIFICATIONS FOR MATERIAL AND CONSTRUCTION.
2. COVERS SHALL BE SECURED WITH 3/8" "L" BOLTS, NUTS, AND WASHERS, WHICH SHALL BE OF BRASS, STAINLESS STEEL, OR OTHER CORROSION RESISTANT MATERIAL. STAINLESS STEEL SHALL HAVE A CHROMIUM CONTENT OF NOT LESS THAN 18% AND A NICKEL CONTENT OF NOT LESS THAN 8%.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS, "TRAFFIC SIGNAL" OR STREET LIGHTING".
4. THE TOP OF THE COVERS SHALL SIT FLUSH WITH THE TOP EDGE OF THE PULL BOX.
5. SEE T 106 FOR TYPICAL INSTALLATION DETAILS.

PAG Pima Association of Governments	DETAIL NO.	STANDARD DETAIL	ISSUED:
	T 101	NO. 3-1/2 PULL BOX	8/92
	SHEET 1 of 1		REVISED: 10/12

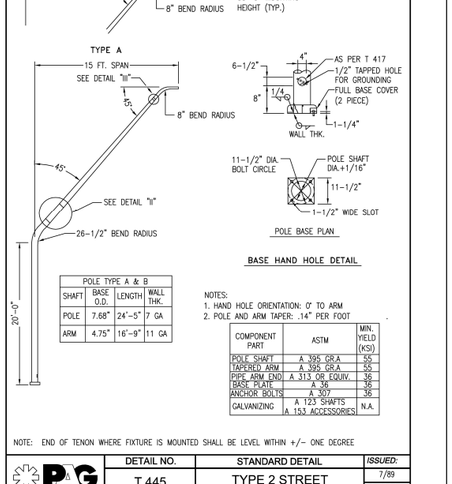
DETAIL LT 8
NO 3-1/2 PULL BOX DETAIL
N.T.S.



NOTES:
1. SEE SPECIFICATIONS FOR MATERIAL AND CONSTRUCTION.
2. COVERS SHALL BE SECURED WITH 3/8" "L" BOLTS, NUTS, AND WASHERS, WHICH SHALL BE OF BRASS, STAINLESS STEEL, OR OTHER CORROSION RESISTANT MATERIAL. STAINLESS STEEL SHALL HAVE A CHROMIUM CONTENT OF NOT LESS THAN 18% AND A NICKEL CONTENT OF NOT LESS THAN 8%. NUTS SHALL BE RECESSED BELOW TOP SURFACE OF COVER.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS, "TRAFFIC SIGNAL" OR STREET LIGHTING".
4. THE TOP OF THE COVER SHALL SIT FLUSH WITH THE TOP EDGE OF THE PULL BOX.
5. SEE T 104 FOR LIFT EYE SLOT DETAILS.
6. SEE T 106 FOR TYPICAL INSTALLATION DETAILS.
7. STEEL PULL BOX COVERS SHALL BE USED WHEN SPECIFIED.

PAG Pima Association of Governments	DETAIL NO.	STANDARD DETAIL	ISSUED:
	T 102	NO. 5 PULL BOX	8/92
	SHEET 1 of 1		REVISED: 10/02

DETAIL LT 9
NO. 5 PULL BOX DETAIL
N.T.S.



POLE TYPE A & B			
SHAFT	BASE O.D.	LENGTH	WALL THK.
POLE	7.68"	24'-5"	7 GA
ARM	4.75"	16'-9"	11 GA

NOTES:
1. HAND HOLE ORIENTATION: 0° TO ARM
2. POLE AND ARM TAPER: .14" PER FOOT

COMPONENT PART	ASTM	MIN. YIELD (KSI)
POLE SHAFT	A 595 GR A	55
TAPERED ARM	A 595 GR A	55
PIPE ARM END	A 513 OR EQUIV.	36
BASE PLATE	A 36	36
ANCHOR BOLTS	A 307	36
GALVANIZING	A 123 SHAFTS A 153 ACCESSORIES	N.A.

NOTE: END OF TENON WHERE FIXTURE IS MOUNTED SHALL BE LEVEL WITHIN +/- ONE DEGREE

PAG Pima Association of Governments	DETAIL NO.	STANDARD DETAIL	ISSUED:
	T 445	TYPE 2 STREET LIGHT POLE	7/89
	SHEET 1 of 2		REVISED: 10/12

DETAIL LT 10
TYPE II STREET LIGHT POLE DETAIL
N.T.S.

Autobahn Series ATBM
Roadway

ORDERING INFORMATION

Series	Performance Packages	Voltage	Optics	Mounting
ATBM Autobahn LED Roadway	P05 9,700 lumens P10 11,000 lumens P20 12,600 lumens P30 15,500 lumens P40 17,400 lumens P50 18,700 lumens P60 20,000 lumens P70 21,500 lumens	MVOLT Multi-volt 120-277V 347 347V 480 480V	R2 Roadway Type II R3 Roadway Type III R4 Roadway Type IV R5 Roadway Type V	(Blank) 2 Bolt Mounting 4B 4 Bolt Mounting

Options

Color Temperature (CCT)
(Blank) 4000K CCT, 70 CRI Min.
27K 2700K CCT, 70 CRI Min.
30K 3000K CCT, 70 CRI Min.
5K 5000K CCT, 70 CRI Min.

Paint
(Blank) Gray
BK Black
BZ Bronze
DDB Dark Bronze
GI Graphite
WH White

Surge Protection
(Blank) Standard 20kV/10kA SPD
MP MOV Pack

Miscellaneous Options
HSS House Side Shield
NL NEMA Label Indicating Wattage
XL Not CSA Certified – No Terminal Block Cover
VR[1] Dual Optix visual comfort
UMR-XX 8' Horizontal Arm for Round Pole, Painted to match Fixture
UMS-XX 8' Horizontal Arm for Square Pole, Painted to match Fixture
UMR-GALV 8' Horizontal Arm for Round Pole, Galvanized
UMS-GALV 8' Horizontal Arm for Square Pole, Galvanized
BAA Buy American(n) Act Compliant

Control Options
(Blank) 3 Pin NEMA Photocontrol Receptacle
PY 7 Pin Photocontrol Receptacle (dimmable driver included)[1]
NR No Photocontrol Receptacle
AO Field Adjustable Output
PCSS Solid-State Lighting Photocontrol[2]
PCLL Solid-State Long Life Photocontrol
PCCC Solid-State Long Life Photocontrol with remote control on/off[3]
SH Shorting Cap

Packages
(Blank) Standard Pack
JP Job Pack (36/pallet)

Accessories
ATBMHSS House Side Shield
ATBMLTS Light Trespass Shield
RKATBMMVOLTSPD ATBM Acuity SPD, MVOLT
RKATBMHVSPD ATBM Acuity SPD, 347/480V
RKATBMMVOLTMP ATBM MOV Pack, MVOLT
RKATBMHVMP ATBM MOV Pack, 347/480V

Notes:
1 Dimmable drive included.
2 This option requires RFD
3 MVOLT only

American Electric Lighting
AEL Headquarters, 3601 Columbus Road, Granville, OH 43023
www.americanelectriclighting.com
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Warranty Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions
Note Actual performance may differ as a result of end-user environment and application. All features are designed and tested under laboratory conditions at 25 °C.
Specifications subject to change without notice.
Please contact your sales representative for the latest product information.
ATBM

DETAIL LT 11
ATBM LIGHT FIXTURE DETAIL
N.T.S.

Autobahn Series ATBM
Roadway

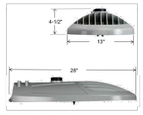
DLC PREMIUM | Designed with LEEDⓇ goals in mind. Contributes to light pollution reduction | Buy American

PRODUCT OVERVIEW



Applications:
Residential streets
Parking lots
High speed roadways

DIMENSIONS



Effective Projected Area (EPA)
The EPA for the ATBM is 0.3 sq. ft.,
Approx. Wt. = 21 lbs. (9.5 kg)

STANDARDS
DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Color temperatures of ≤ 3000K must be specified for International Dark-Sky Association certification.

Rated for -40°C to 40°C ambient
CSA Certified to U.S. and Canadian standards
Complies with ANSI C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

Features:

OPTICAL

Same Light: Performance is comparable to 150W – 250W HPS

White Light: Correlated color temperature - 4000K, 70 CRI minimum, 3000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

IP66 rated borosilicate glass optics ensure longevity and minimize dirt depreciation. Unique IP66 rated LED light engines provide 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available distributions are Type II, III, IV, & V roadway distributions.

DualOptix™ visual comfort option is also available for all distributions.

ELECTRICAL

Expected Life: LED light engines are rated >100,000 hours at 25°C, L70.
Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected 40-60% over comparable HID luminaires.

Robust Surge Protection: Standard surge protection is 20kV/10kA "Extreme Level" per ANSI C136.2. An optional MOV pack provides 10kV/5kA "Enhanced Level.

Luminaire ships with a 0-10v dimmable driver. Luminaire is continuous and step dimming capable via AO option or controls installed on P7 photocontrol receptacle option.

MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. The 2 – bolt and optional 4 bolt clamping mechanism provide 3G vibration rating per ANSI C136.31.

The Wildlife shield is cast into the housing (not a separate piece).

CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 7 pin receptacle optionally available.

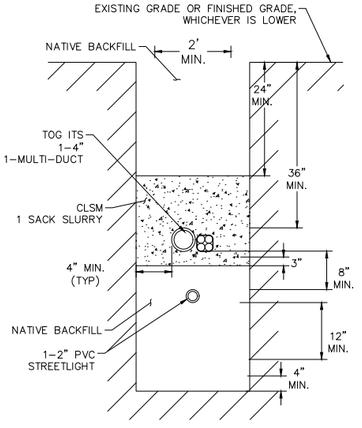
Premium solid state locking-style photocontrol – PCSS (10-year rated life) Extreme long life solid state locking-style photocontrol – PCL1 (20 year rated life).

Extreme long life solid state locking-style photocontrol with on demand remote on/off control - PCCC (15 year rated life).

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

Note: Specifications subject to change without notice.
AEL American Electric Lighting

DETAIL LT 12
JOINT TRENCH DETAIL
N.T.S.



NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
STREET LIGHTING PLAN SHEETS

CITY OF TUCSON

DRWN. BY F. KENNEY	CHKD. BY J. MODRAK	APPR. BY M. COLOMBO	SCALE: H: V:
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

LT09 OF LT09
179 OF 316

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GENERAL NOTES FOR ITS PLANS

1. FIELD HARDENED NETWORK SWITCH: THE CITY OF TUCSON WILL SUPPLY ALL THE REQUIRED FIELD HARDENED NETWORK SWITCHES WITH POWER SUPPLIES. CONTRACTOR SHALL FURNISH AND INSTALL A DIN RAIL WITHIN EACH TRAFFIC SIGNAL CABINET, PER CITY APPROVED AND CONTRACTOR SUPPLIED SHOP DRAWINGS. CONTRACTOR SHALL COORDINATE WITH THE CITY TO OBTAIN THE CONFIGURED NETWORK SWITCHES AND INSTALL THE NETWORK SWITCHES WITH POWER SUPPLIES WITHIN THE TRAFFIC SIGNAL CABINETS NOTED WITHIN THE PLANS. CONTRACTOR SHALL CONFIRM EXISTING TRAFFIC SIGNAL CABINET POWER SOURCE LOCATION AND TYPE, AND PROVIDE ANY NECESSARY POWER EXTENSION CORDS/ADAPTORS NECESSARY BETWEEN THE NETWORK SWITCH MOUNTING LOCATION AND THE EXISTING TRAFFIC SIGNAL CABINET POWER SUPPLY.

2. PRE-INSTALLATION INVENTORY AND PHOTO LOG: WITHIN 7 DAYS OF CONTRACT AWARD AND PRIOR TO INSTALLING ANY MATERIALS, THE CONTRACTOR SHALL INVENTORY EXISTING CONDUIT SYSTEM, AT EACH PULL POINT, AND PHOTOGRAPH ANY DAMAGED CONDUIT, PULL BOXES, AND PULL BOX LIDS. THE CONTRACTOR SHALL SUBMIT, TO THE CITY, A LIST OF DAMAGED EXISTING EQUIPMENT WITH ASSOCIATED PHOTOGRAPHS PRIOR TO INSTALLING ANY MATERIALS. EXISTING CONDUIT ENTRANCES, PULL BOXES, AND PULL BOX LIDS THAT ARE FOUND TO BE DAMAGED AFTER THE CONTRACTOR STARTS INSTALLATIONS AND NOT REPORTED/PHOTOGRAPHED BY THE CONTRACTOR PRIOR TO INSTALLATION, SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

3. EXISTING CONDUIT: PRIOR TO INSTALLING THE NEW FIBER OPTIC CABLES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR BLOWING/FLUSHING OUT ANY EXISTING WATER AND DEBRIS WITHIN THE EXISTING CONDUITS AND INNERDUCTS. AFTER FIBER OPTIC CABLES HAVE BEEN INSTALLED, THE CONTRACTOR SHALL SEAL ALL CONDUITS AND INNERDUCTS WITH A CITY APPROVED WATER TIGHT SEALING COMPOUND/MATERIAL.

4. FIBER TAGS: CONTRACTOR SHALL PROVIDE 2" X 3.5" SELF-LAMINATING RIGID VINYL TAGS 10 MIL ON EACH FIBER OPTIC CABLE THAT ENTERS A PULL BOX. IF A FIBER OPTIC CABLE PASSES THROUGH THE PULL BOX, TWO (2) CABLE LABELS SHALL BE PROVIDED FOR THAT CABLE, ONE ON EACH END WHERE THE CABLE ENTERS/EXITS THE PULL BOX. ALL AERIAL FIBER OPTIC CABLE SHALL BE TAGGED AT EVERY OTHER POLE ATTACHMENT AND AT EACH END AT THE TOP OF THE RISER USING AN APPROVED TAGGING METHOD DESIGNED FOR ABOVE GROUND INSTALLATIONS EXPOSED TO EXTREME HEAT AND SUNLIGHT. CONTRACTOR SHALL COORDINATE THE SPECIFIC WORDING OF EACH CABLE LABEL, WITH THE CITY, AND SUBMIT A LIST OF THE WORDING FOR EACH CABLE LABEL FOR CITY APPROVAL PRIOR TO ORDERING THE CABLE LABELS.

5. FIBER OPTIC CABLE INSTALLATIONS: CONTRACTOR SHALL INSTALL CONTINUOUS CABLE RUNS, BETWEEN IDENTIFIED TERMINATION POINTS, AND SHALL ONLY SPLICE THE CABLES AS SHOWN ON THE FIBER SPLICE DETAILS THAT WILL BE PROVIDED TO THE CONTRACTOR AFTER THE NOTICE TO PROCEED. CONTRACTOR SHALL FOLLOW ALL PRE-LUBRICATION AND OTHER CABLE INSTALLATION METHODS RECOMMENDED BY THE CABLE MANUFACTURER. CONTRACTOR SHALL USE A CABLE PULL-TENSION LIMITING DEVICE WHEN INSTALLING THE CABLES TO KEEP THE CABLE TENSION BELOW MANUFACTURER RECOMMENDATIONS DURING INSTALLATION. CONTRACTOR SHALL NOT BEND THE CABLE BEYOND THE MINIMUM BENDING RADIUS IDENTIFIED BY THE CABLE MANUFACTURER. IF FIBERS WITHIN A FIBER OPTIC CABLE ARE DETERMINED TO BE DAMAGED, AFTER THE CABLE IS INSTALLED, THE CONTRACTOR SHALL REPLACE ALL ASSOCIATED CABLE SEGMENT WITHOUT ANY ADDITIONAL COST TO THE CITY. THE CONTRACTOR MAY PROPOSE ADDITIONAL FIBER SPLICES TO REDUCE THE LENGTH OF EACH CABLE REEL NEEDED. IF ADDITIONAL SPLICES ARE APPROVED BY THE CITY, THE CONTRACTOR SHALL PROVIDE THE ADDITIONAL SPLICES AT NO ADDITIONAL COST TO THE CITY.

6. TRACER WIRE INSTALLATION: ALL FIBER OPTIC CABLE INSTALLATIONS SHALL INCLUDE A CONTINUOUS THHN COPPER #10 AWG GREEN TRACER WIRE THAT IS GROUNDED AT EACH CABLE ACCESS POINT. TRACER WIRE SHALL RUN EXTERNAL TO THE INNERDUCTS.

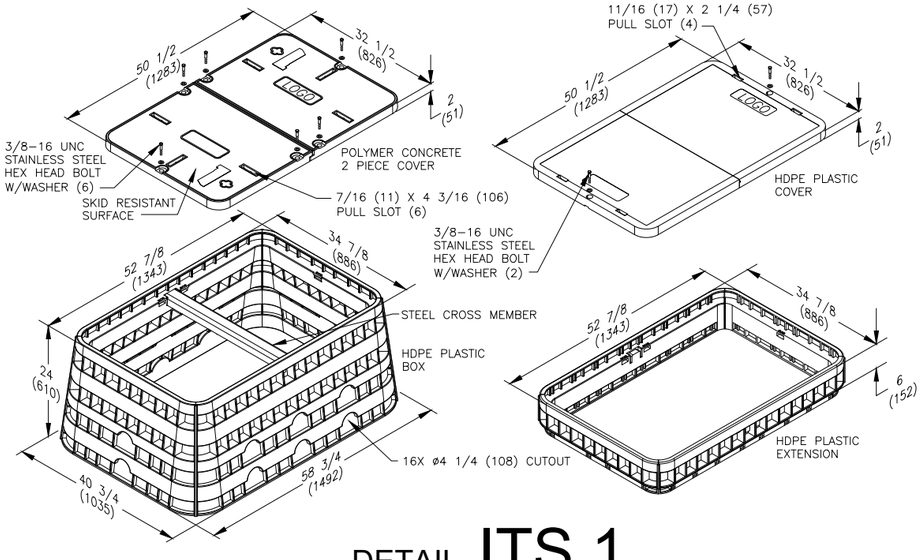
7. UPON COMMENCEMENT OF WORK, ALL TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH A TIME AS THE WORK IS COMPLETE. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS ADOPTED BY PIMA COUNTY AND APPROVED BY THE ENGINEER. ALL TRAFFIC CONTROL DEVICES ON FEDERALLY FUNDED PROJECTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS ADOPTED BY ADOT AND APPROVED BY THE ENGINEER.

8. THE TRAFFIC SIGNAL OPERATION AT EXISTING SIGNALIZED INTERSECTIONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT WITH EXISTING, TEMPORARY, OR NEW TRAFFIC SIGNAL EQUIPMENT.

9. ALL EQUIPMENT/MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON TELECOMMUNICATIONS STANDARDS 2023 OR CURRENT EDITION AND THE APPROVED PLANS. OPTICAL FIBER BACKBONE CABLE SHALL BE TESTED ACCORDING TO CITY OF TUCSON TELECOMMUNICATIONS STANDARDS SECTION 27 13 23.

10. THE CONTRACTOR SHALL HANG ALL FIBER SPLICE CLOSURES AND CABLE SLACK WITH A BRACKET SYSTEM IN ALL VAULTS AND PULL BOXES.

11. BLANK DUCT PLUGS SHALL BE INSTALLED IN EACH INDIVIDUAL INNERDUCT WHERE IT EMERGES AT ALL RISERS, PULL BOXES, AND VAULTS. QUADPLEX DUCT PLUGS SHALL BE INSTALLED TO SEAL AROUND, ORGANIZE, AND SUPPORT INNERDUCT WHERE IT EMERGES AT ALL RISERS, PULL BOXES, AND VAULTS. THE DUCT PLUGS SHALL BE ALL PLASTIC CONSTRUCTION, CORROSION PROOF, WATER AND AIRTIGHT TO 30 PSI, JACKMOON OR EQUIVALENT. NO CHEMICAL SEALS WILL BE ACCEPTED.



DETAIL ITS 1

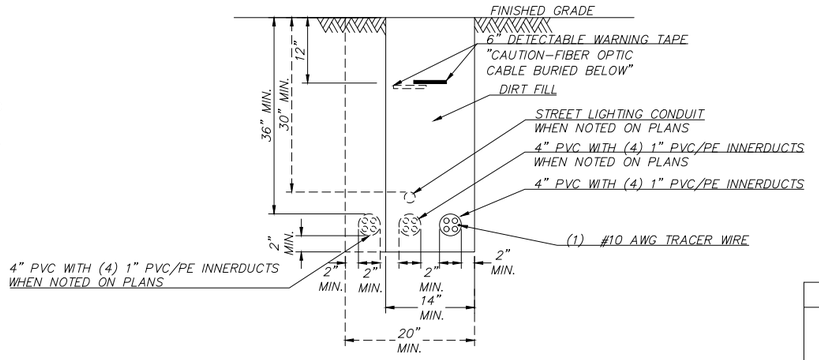
PENCELL 30 SERIES PULL BOX DETAIL
N.T.S.

ITS LEGEND

- TRAFFIC SIGNAL CABINET
- COMMUNICATION PULL BOX
- EXISTING COMMUNICATION PULL BOX
- ITS — CONDUIT RUN
- (X) CONDUIT RUN NUMBER

ABBREVIATIONS

ITS	INTELLIGENT TRANSPORTATION SYSTEM
LIU	LINE INTERFACE UNIT
NTP	NOTICE TO PROCEED
OH	OVERHEAD
OSP	OUTSIDE PLANT
SMFO	SINGLE MODE FIBER OPTIC



FIBER OPTIC TRENCH DETAIL
NOT TO SCALE

NOTES

1. PLACE DETECTABLE WARNING TAPE DIRECTLY OVER FIBER OPTIC CONDUIT
2. FIBER OPTIC CONDUIT MUST BE MIN. 36" BELOW FINISHED GRADE AND ANY CONDUIT INSTALLED LESS THAN 36" SHALL BE ENCASED IN CONCRETE. THE CONCRETE SHALL BE PLACED A MINIMUM OF THREE INCHES OF ENCASEMENT ON ALL SIDES.
3. VAULT AND ITS PULL BOX LOCATIONS MAY BE ADJUSTED WITH THE APPROVAL OF THE ENGINEER. MAXIMUM SPACING BETWEEN VAULTS AND/ OR ITS PULL BOXES IS 600'

DETAIL ITS 2

FIBER OPTIC TRENCH DETAIL
N.T.S.

CONDUIT AND FIBER SCHEDULE						
	CONDUIT RUN NUMBER	①	②	③	④	⑤
	CONDUIT SIZE (IN)	4	4	4	4	2
FIBER TYPE	COMPONENT					
144 SMFO	BACKBONE	1	1			
24 SMFO	INTER-SIGNAL		1	1		1
	1" INNERDUCT	4	4	4	4	
	TRACER WIRE	1	1	1	1	1

SCHEDULE ITS 3

CONDUIT AND FIBER SCHEDULE
N.T.S.

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ITS GENERAL NOTES

CITY OF TUCSON

DRWN. BY F. KENNEY AUG 20 25 | CHKD. BY J. MODRAK AUG 20 25 | APPR. BY M. COLOMBO AUG 20 25

SCALE: H: N/A V: N/A

PLAN NO. I-2025-004

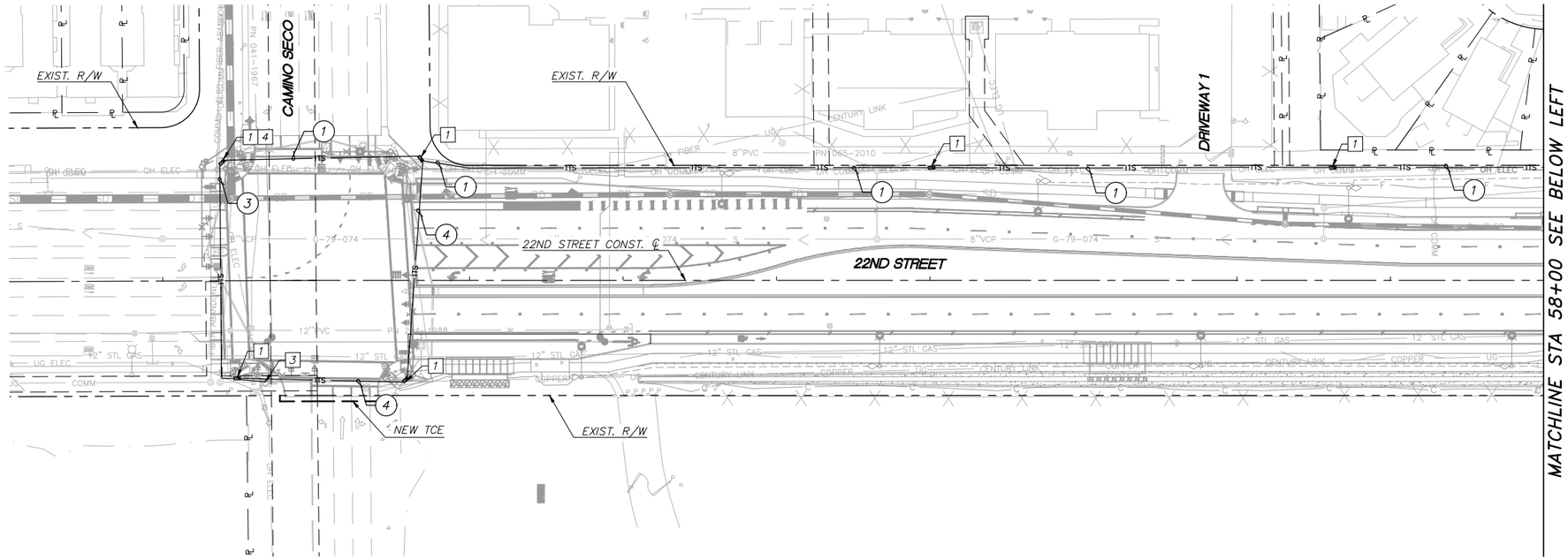
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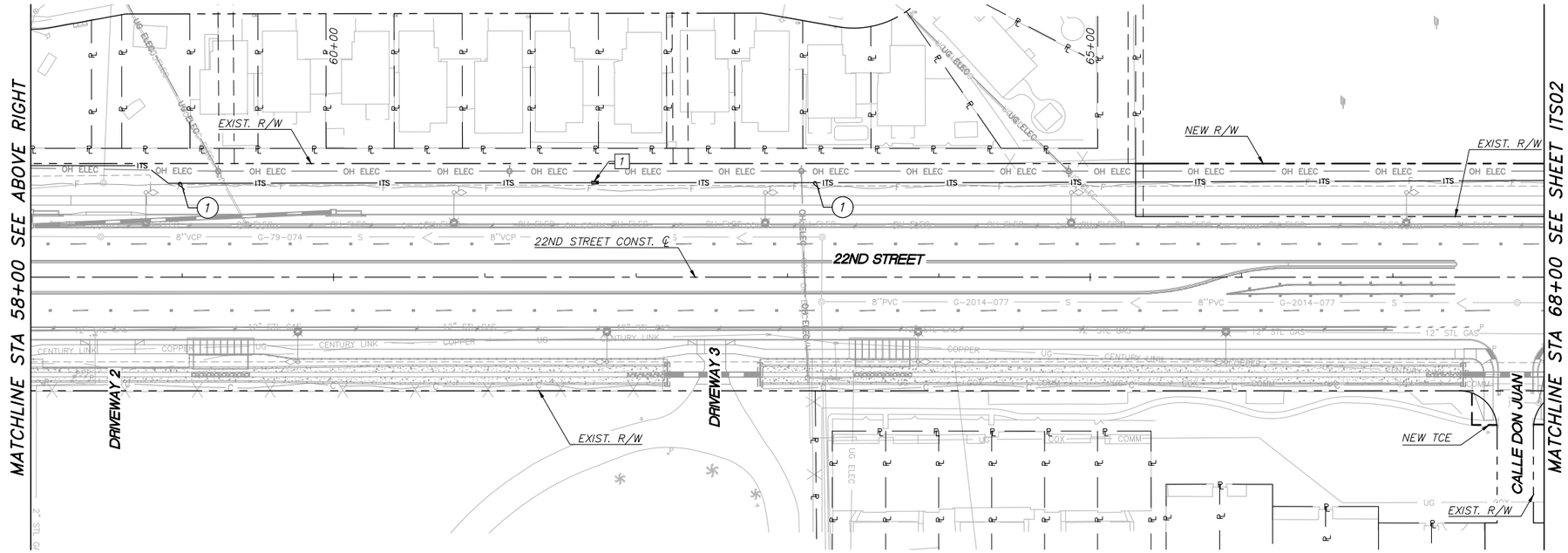
180 OF 316

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ITS NOTES:

1. FURNISH AND INSTALL 30" X 48" PENCELL PM (PEM 30 SERIES) PULL BOX PER DETAIL 1 ON SHEET IT01.
3. ROUTE SMFO CABLE INTO TRAFFIC SIGNAL CONTROL CABINET AND INSTALL AND TERMINATE 12 SMFO GATOR PATCH IN CABINET. INSTALL 12 SMFO FIBER CONTROLLED SHEAR POINT ON 24 SMFO CABLE IN CONTROL CABINET MODEL NUMBER CSP1-12SC-150-PM-A-B. INSTALL NETWORK SWITCH (CITY OF TUSCAN PROVIDED), POWER SUPPLY AND DIN RAIL MOUNTED WITHIN TRAFFIC SIGNAL CABINET.
4. FURNISH AND INSTALL SPLICE ENCLOSURE FOR 24 STRAND SIGNLE MODE CABLE TO SIGNAL CONTROLLER. SEE SPLICING DIAGRAM FOR MORE INFORMATION.

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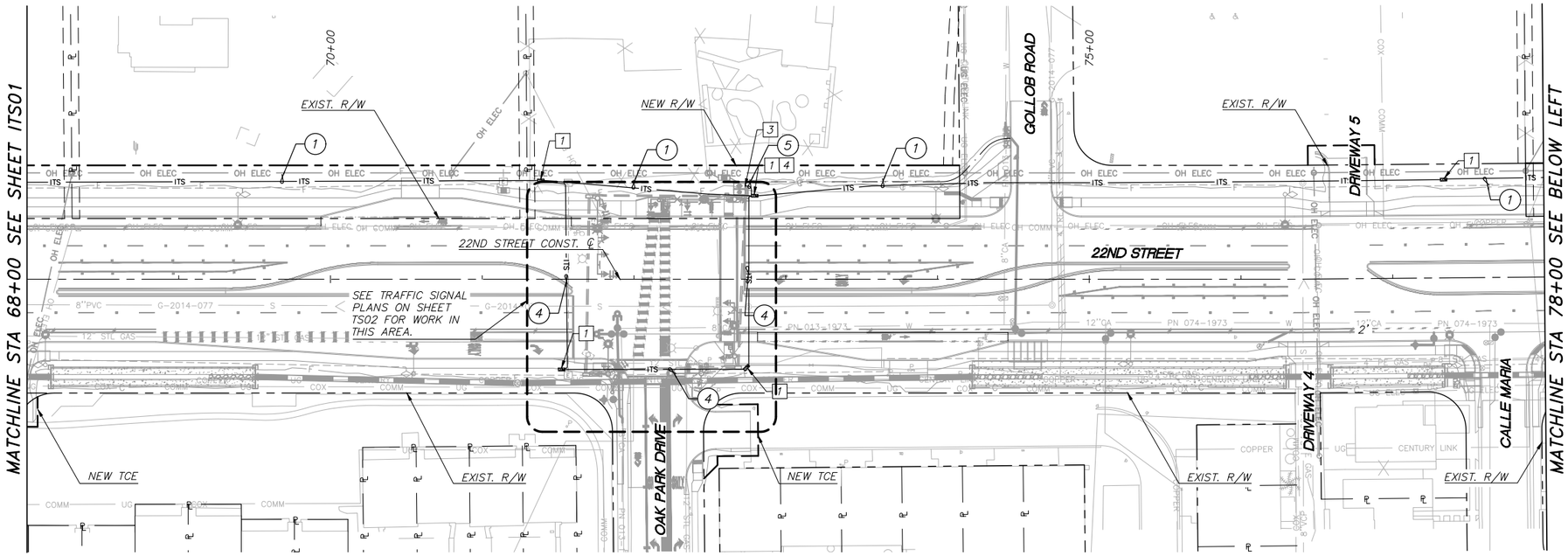
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ITS PLAN SHEETS

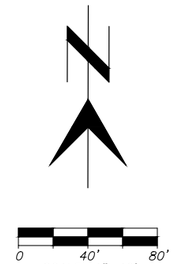
CITY OF TUCSON

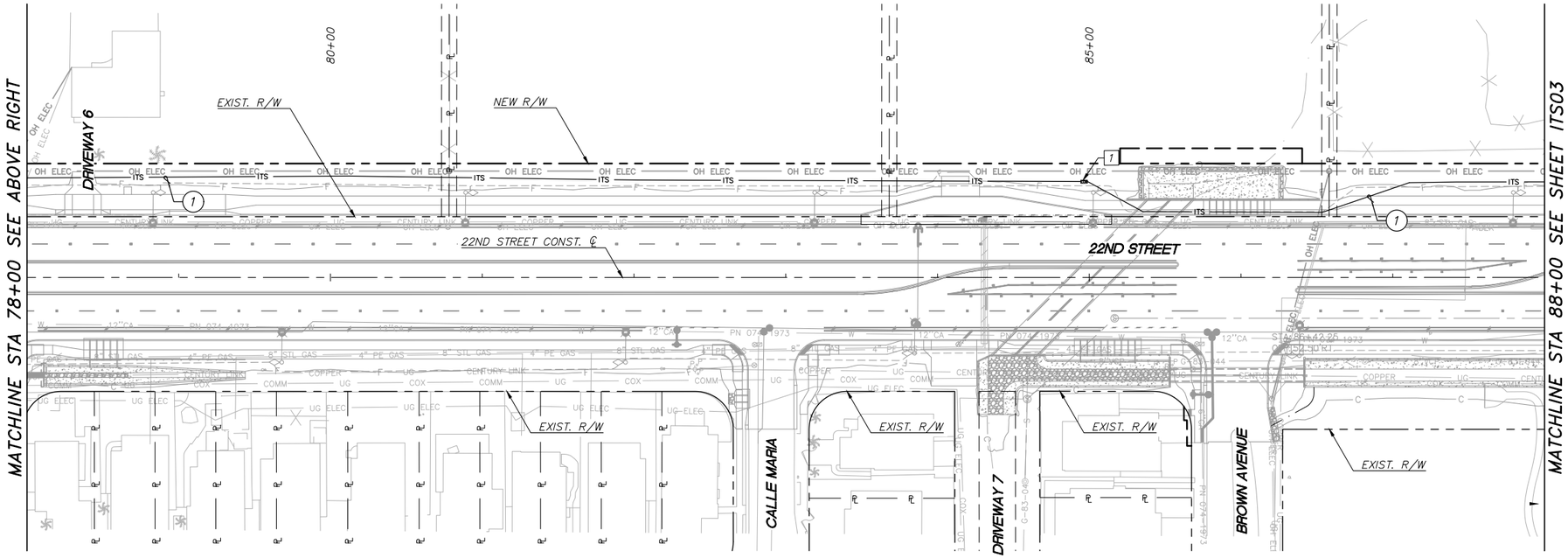
DRWN. BY F. KENNEY	CHKD. BY J. MODRAK	APPR. BY M. COLOMBO	SCALE: H: 1"=40' V: 1"=40'
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

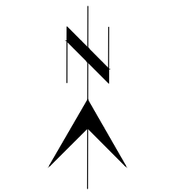
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ITS NOTES:

1. FURNISH AND INSTALL 30" X 48" PENCELL PM (PEM 30 SERIES) PULL BOX PER DETAIL 1 ON SHEET IT01.
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4. FURNISH AND INSTALL SPLICE ENCLOSURE FOR 24 STRAND SIGNLE MODE CABLE TO SIGNAL CONTROLLER. SEE SPLICING DIAGRAM FOR MORE INFORMATION.

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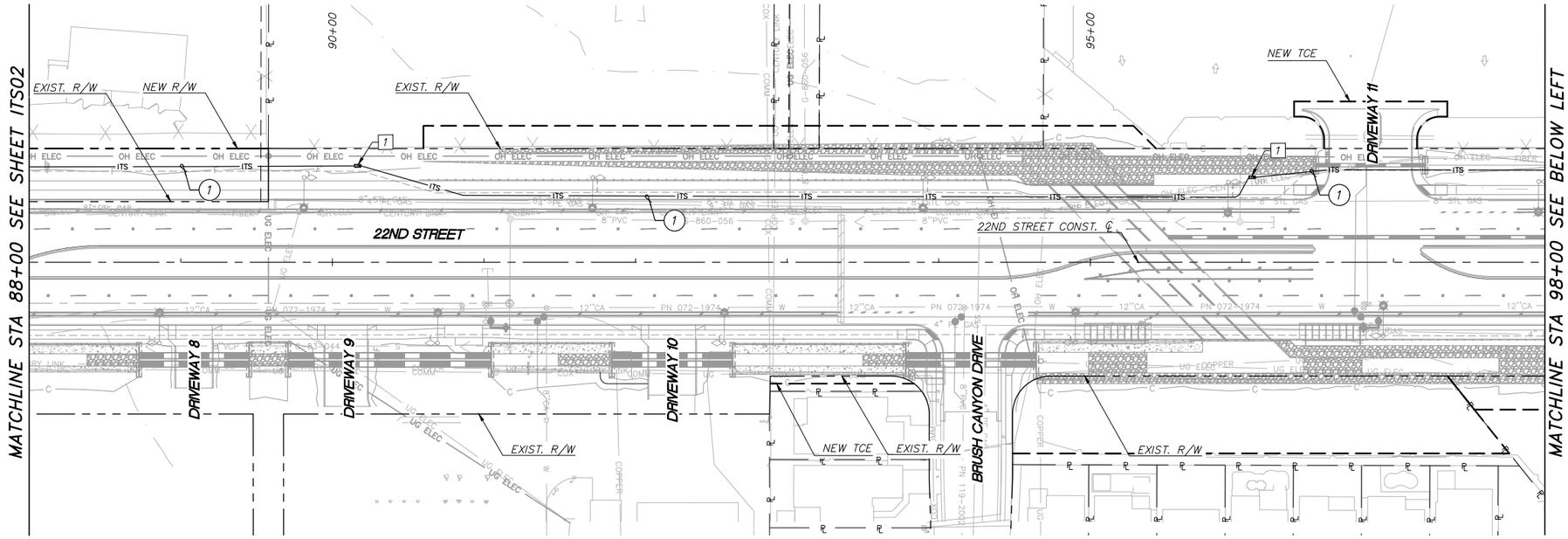
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ITS PLAN SHEETS

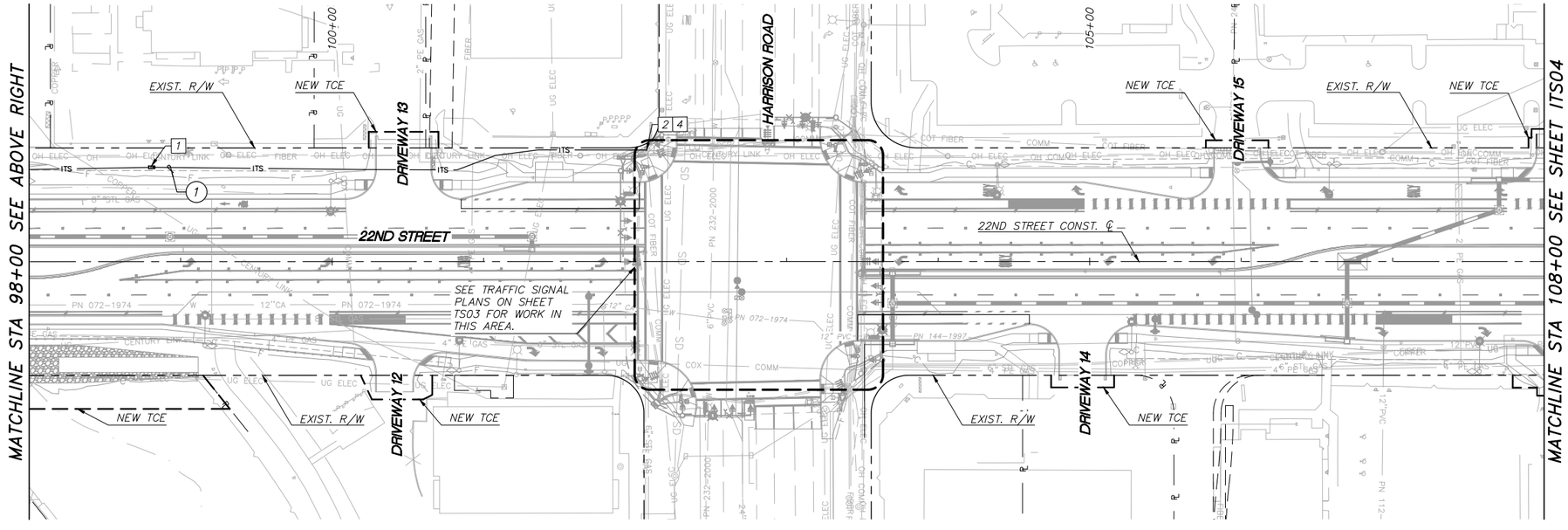
CITY OF TUCSON

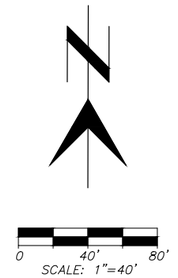
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AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

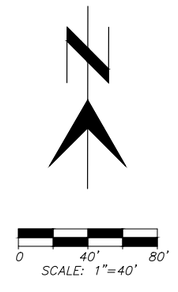
IT03 OF IT07
182 OF 316

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ITS NOTES:

1. FURNISH AND INSTALL 30" X 48" PENCELL PM (PEM 30 SERIES) PULL BOX PER DETAIL 1 ON SHEET IT01.
2. ROUTE SMFO CABLE INTO EXISTING ITS PULL BOX. PROVIDE 100-FOOT COIL OF CABLE SLACK FROM EACH END OF THE BACK BONE CABLE.
4. FURNISH AND INSTALL SPLICE ENCLOSURE FOR 24 STRAND SIGNLE MODE CABLE TO SIGNAL CONTROLLER. SEE SPLICING DIAGRAM FOR MORE INFORMATION.

NO.	DATE	REVISION	BY	CHKD.	APPR.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ITS PLAN SHEETS

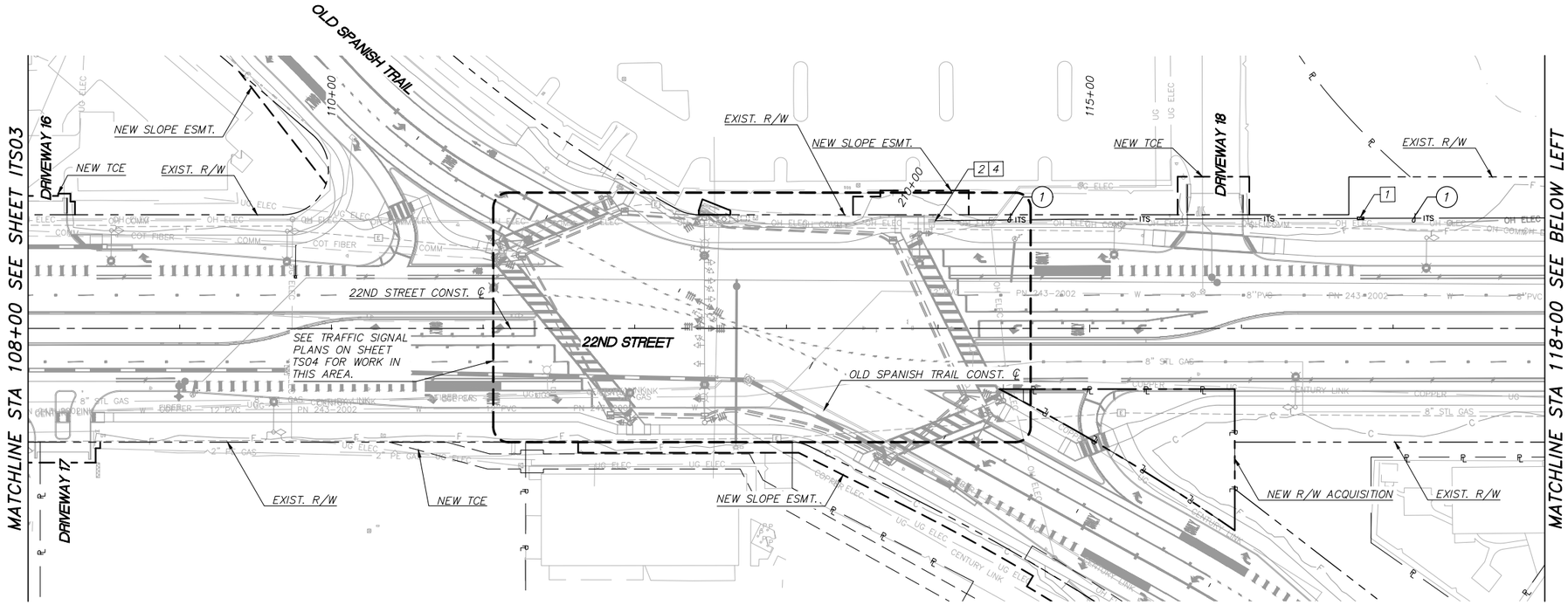
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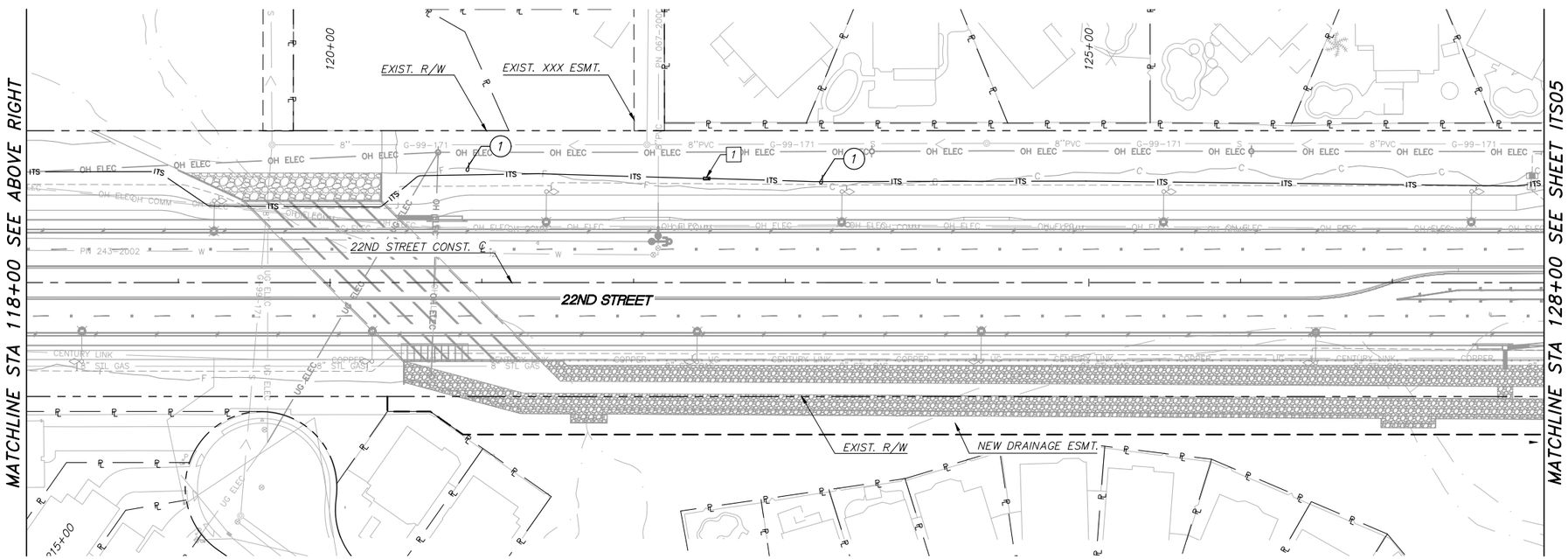
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F. KENNEY AUG 20 25	J. MODRAK AUG 20 25	M. COLOMBO AUG 20 25	PLAN NO. I-2025-004

IT04 OF IT07

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ITS NOTES:

1. FURNISH AND INSTALL 30" X 48" PENCELL PM (PEM 30 SERIES) PULL BOX PER DETAIL 1 ON SHEET IT01.
2. ROUTE SMFO CABLE INTO EXISTING ITS PULL BOX. PROVIDE 100-FOOT COIL OF CABLE SLACK FROM EACH END OF THE BACK BONE CABLE.
4. FURNISH AND INSTALL SPLICE ENCLOSURE FOR 24 STRAND SIGNLE MODE CABLE TO SIGNAL CONTROLLER. SEE SPLICING DIAGRAM FOR MORE INFORMATION.

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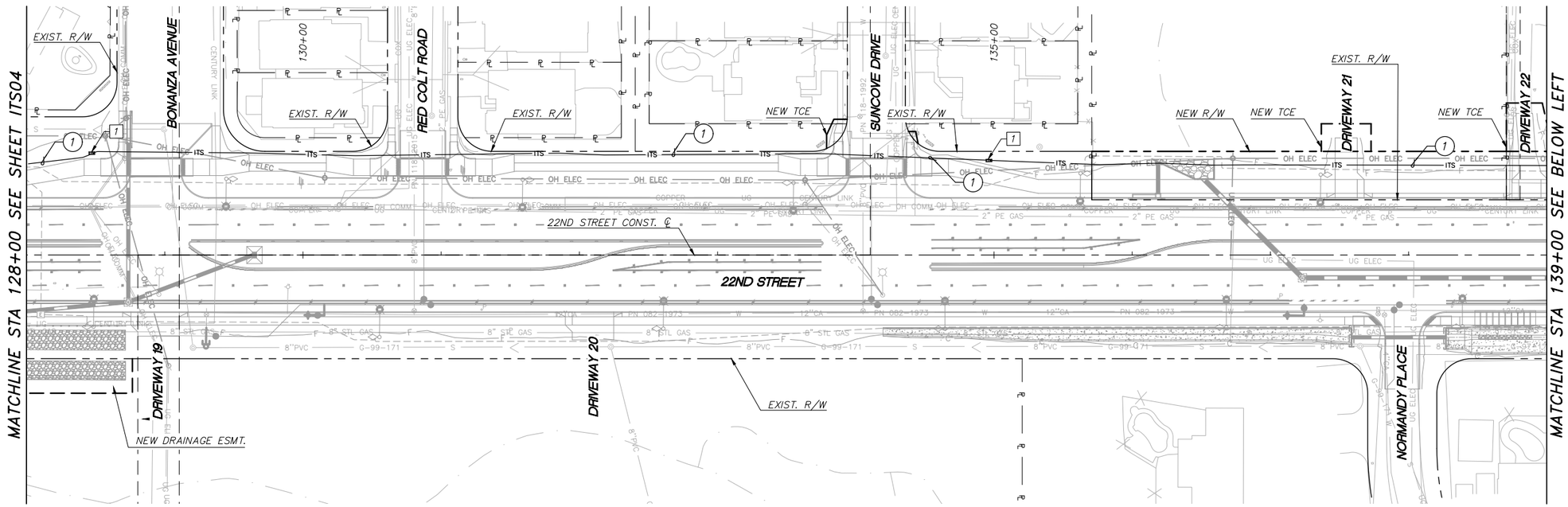
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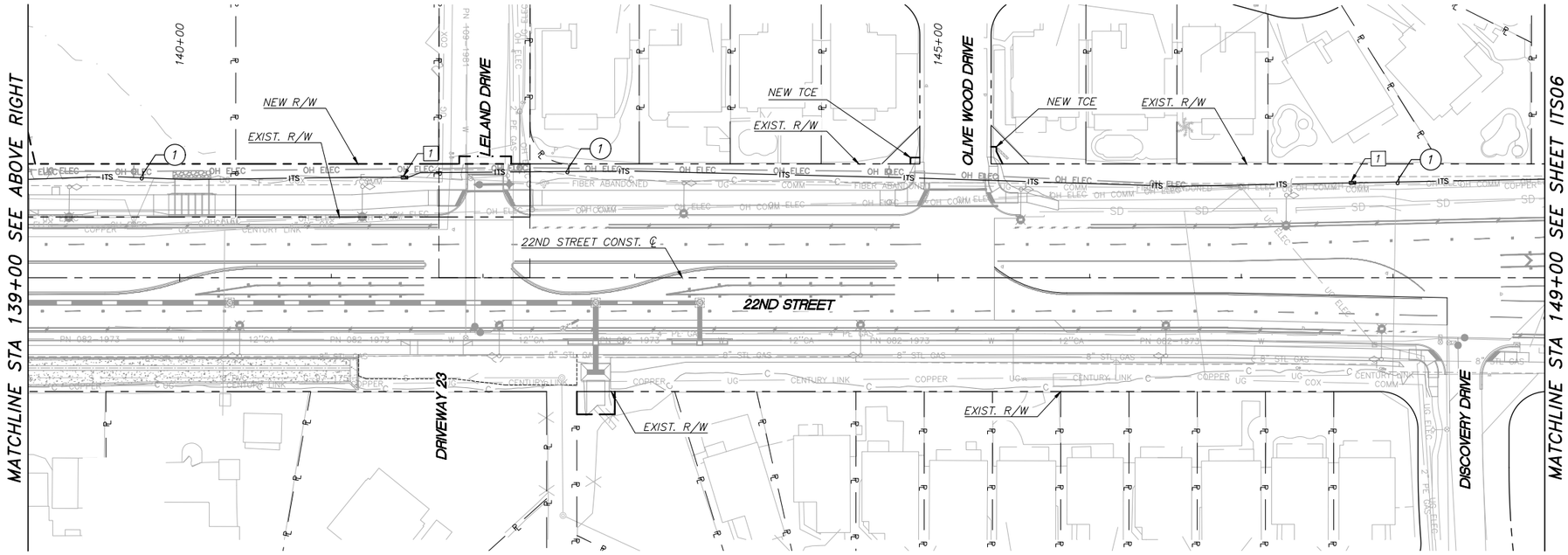
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ITS PLAN SHEETS

CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE: H: 1"=40' V: 1"=40'
F. KENNEY AUG 20 25	J. MODRAK AUG 20 25	M. COLOMBO AUG 20 25	PLAN NO. I-2025-004

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ITS NOTES

1 FURNISH AND INSTALL 30" X 48" PENCELL PM (PEM 30 SERIES) PULL BOX PER DETAIL 1 ON SHEET IT01.

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ITS PLAN SHEETS

CITY OF TUCSON

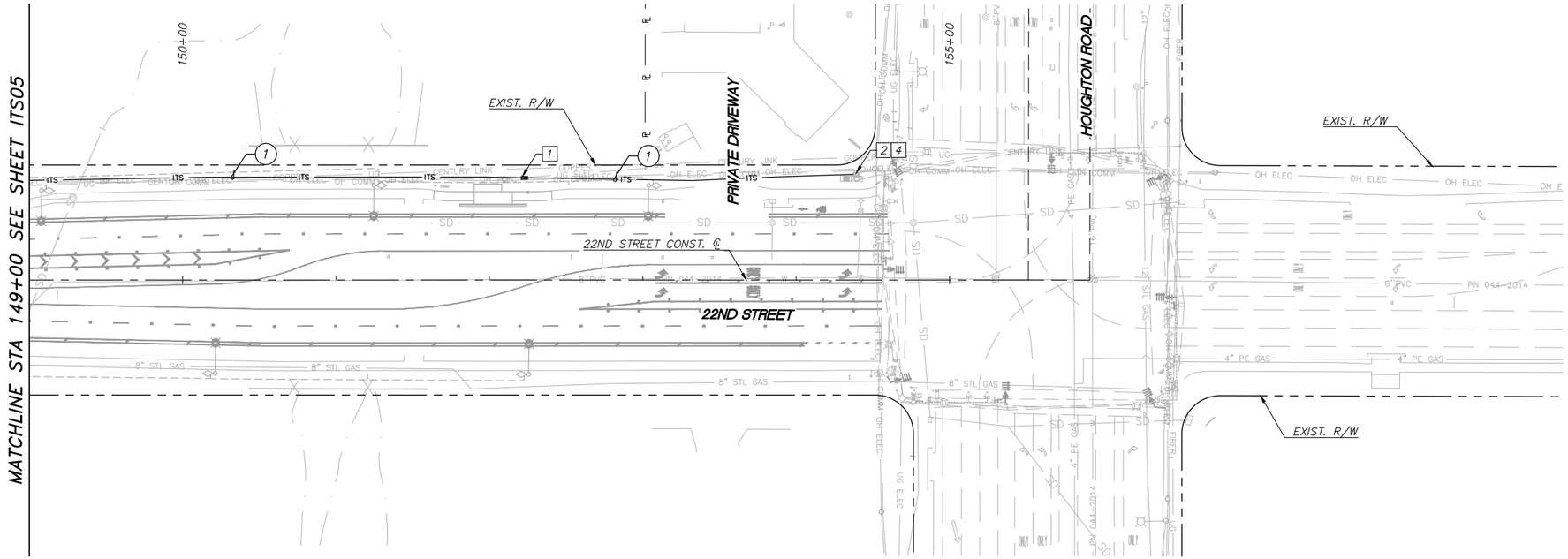
DRWN. BY	CHKD. BY	APPR. BY	SCALE
F. KENNEY AUG 20 25	J. MODRAK AUG 20 25	M. COLOMBO AUG 20 25	H: 1"=40' V: 1"=40'

PLAN NO. I-2025-004

IT06 OF IT07

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0 40' 80'
SCALE: 1"=40'

ITS NOTES:

1. FURNISH AND INSTALL 30" X 48" PENCELL PM (PEM 30 SERIES) PULL BOX PER DETAIL 1 ON SHEET IT01.
2. ROUTE SMFO CABLE INTO EXISTING ITS PULL BOX. PROVIDE 100-FOOT COIL OF CABLE SLACK FROM EACH END OF THE BACK BONE CABLE.
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
ITS PLAN SHEETS

CITY OF TUCSON

DRWN. BY F. KENNEY AUG 20 25
CHKD. BY J. MODRAK AUG 20 25
APPR. BY M. COLOMBO AUG 20 25
SCALE: H: 1"=40' V: 1"=40'
PLAN NO. I-2025-004

IT07 OF IT07

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EROSION CONTROL TYPE INSTALLATION & QUANTITY

22ND STREET EROSION CONTROL PLAN STA 48+00.00 TO STA 155+51.40 LOCATION	(EC1) SEDIMENT WATTLE SLOPE PROTECTION (LF) 9" LEFT	(EC1) SEDIMENT WATTLE SLOPE PROTECTION (LF) 9" RIGHT	(EC2) 20" SEDIMENT LOG (LF) LEFT	(EC2) 20" SEDIMENT LOG (LF) RIGHT	(EC3) PIPE INLET & OUTLET ROCK PROTECTION (CY) LEFT	(EC3) PIPE INLET & OUTLET ROCK PROTECTION (CY) RIGHT	(EC4) SEDIMENT BERM (LF) LEFT	(EC4) SEDIMENT BERM (LF) RIGHT	(EC5) CURB INLET PROTECTION 12" SEDIMENT WATTLE (LF) LEFT	(EC5) CURB INLET PROTECTION 12" SEDIMENT WATTLE (LF) RIGHT	(EC5) CURB INLET PROTECTION GRAVEL BAGS (CY) LEFT	(EC5) CURB INLET PROTECTION GRAVEL BAGS (CY) RIGHT	(EC6) ROCK CHECK DAM (EACH) LEFT	(EC6) ROCK CHECK DAM (EACH) RIGHT	(EC7) CONSTRUCTION ENTRANCE (CY) LEFT	(EC7) CONSTRUCTION ENTRANCE (CY) RIGHT	EROSION CONTROL TOTALS 9" SEDIMENT WATTLE SLOPE PROTECTION (LF) (EC1)	20" SEDIMENT LOG (LF) (EC2)	PIPE INLET & OUTLET ROCK PROTECTION (CY) (EC3)	SEDIMENT BERM (EC4)	12" SEDIMENT WATTLE CURB INLET (LF) (EC5)	GRAVEL BAGS CURB INLET (CY) (EC5)	ROCK CHECK DAM (EACH) (EC6)	CONSTRUCTION ENTRANCE (CY) (EC7)	REMARKS
STA 48+00.00 TO STA 58+00.00	758'	628'	–	24'	–	4	–	590'	8	8	10	10	–	12	–	196	1386'	24'	4	590'	16	20	12	196	
STA 58+00.00 TO STA 68+00.00	1000'	893'	–	–	–	10	–	884'	8	8	10	10	–	15	–	–	1893'	–	10	884'	16	20	15	–	
STA 68+00.00 TO STA 78+00.00	1057'	868'	–	–	–	16	–	501'	–	8	–	10	–	7	–	–	1925'	–	16	501'	8	10	7	–	
STA 78+00.00 TO STA 88+00.00	860'	809'	–	24'	6	16	–	456'	4	12	5	15	–	5	196	–	1669'	24'	22	456'	16	20	5	196	
STA 88+00.00 TO STA 98+00.00	657'	707'	24'	–	8	22	523'	682'	4	12	5	15	5	9	–	–	1364'	24'	30	1205'	16	20	14	–	
STA 98+00.00 TO STA 108+00.00	777'	913'	–	–	–	–	227'	499'	8	4	10	20	–	3	–	–	1690'	–	–	726'	12	30	3	–	
STA 108+00.00 TO STA 118+00.00	591'	485'	–	–	–	–	–	257'	4	4	5	5	–	–	–	–	1076'	–	–	257'	8	10	–	–	
STA 118+00.00 TO STA 128+00.00	297'	906'	128'	–	4	2	493'	801'	4	8	5	10	–	14	–	196	1203'	128'	6	1294'	12	15	14	196	
STA 128+00.00 TO STA 139+00.00	600'	634'	40'	–	4	2	238'	453'	8	8	10	10	–	8	–	–	1234'	40'	6	691'	16	20	8	–	
STA 139+00.00 TO STA 149+00.00	340'	–	–	–	2	–	240'	886'	4	12	5	15	–	4	–	–	340'	–	2	1126'	16	20	4	–	
STA 149+00.00 TO STA 155+51.40	86'	–	–	–	–	–	–	–	–	–	–	–	–	–	196	–	86'	–	–	–	–	–	–	196	
OLD SPANISH TRAIL	352'	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	352'	–	–	–	–	–	–	–	
TOTALS:	7375'	6843'	192'	48'	24	72	1721'	6009'	52	84	65	120	5	77	392	392	7375'	240'	96	7730'	136	185	82	784	

NOTES:

1. THE PLACEMENT OF ALL EROSION CONTROL DEVICES LISTED ABOVE WILL BE SUBJECT TO CHANGE AND MAY BE ADJUSTED BY THE RESIDENT ENGINEER.
2. ALL DISTURBED AREAS SHALL RECIEVE ROCK MULCH, 2" DEEP, UNLESS OTHERWISE NOTED ON THE LANDSCAPE PLANS
3. BASED ON A SEARCH OF THE ADEQ DRYWELL REGISTRY, NO DRYWELLS ARE WITHIN ¼ MILE OF THE PROJECT.
4. THE CONTRACTOR, IN CONJUNCTION WITH THE CITY OF TUCSON, SHALL DETERMINE THE LOCATION OF THE CONSTRUCTION ENTRANCES/EXITS. APPROXIMATE QUANTITY SHOWN BASED ON 4 ESTIMATED CONSTRUCTION ENTRANCES/EXITS.

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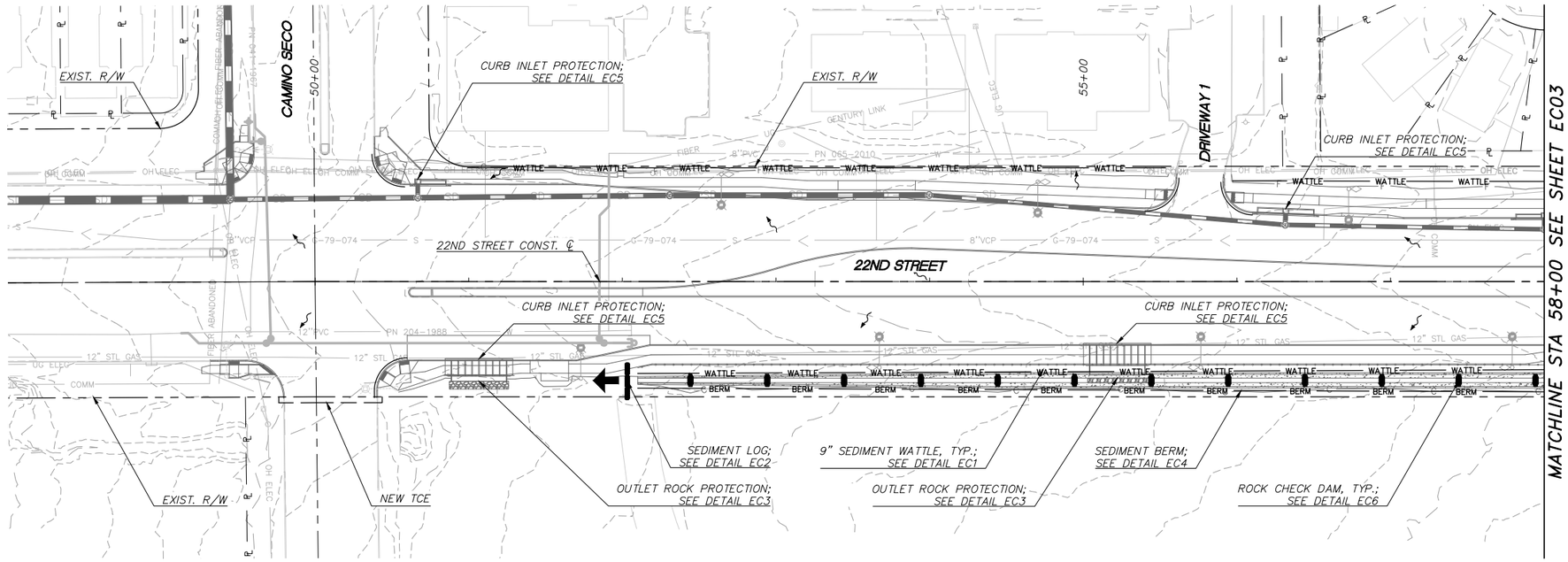
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL GENERAL NOTES - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004



0 40' 80'
SCALE: 1"=40'

EROSION CONTROL LEGEND

- WATTLE — SEDIMENT WATTLE; SEE DETAIL EC1
- SEDIMENT LOG; SEE DETAIL EC2
- BERM — SEDIMENT BERM; SEE DETAIL EC4
- ROCK CHECK DAM; SEE DETAIL EC6
- FLOW DIRECTION
- MAJOR OUTFALL LOCATION

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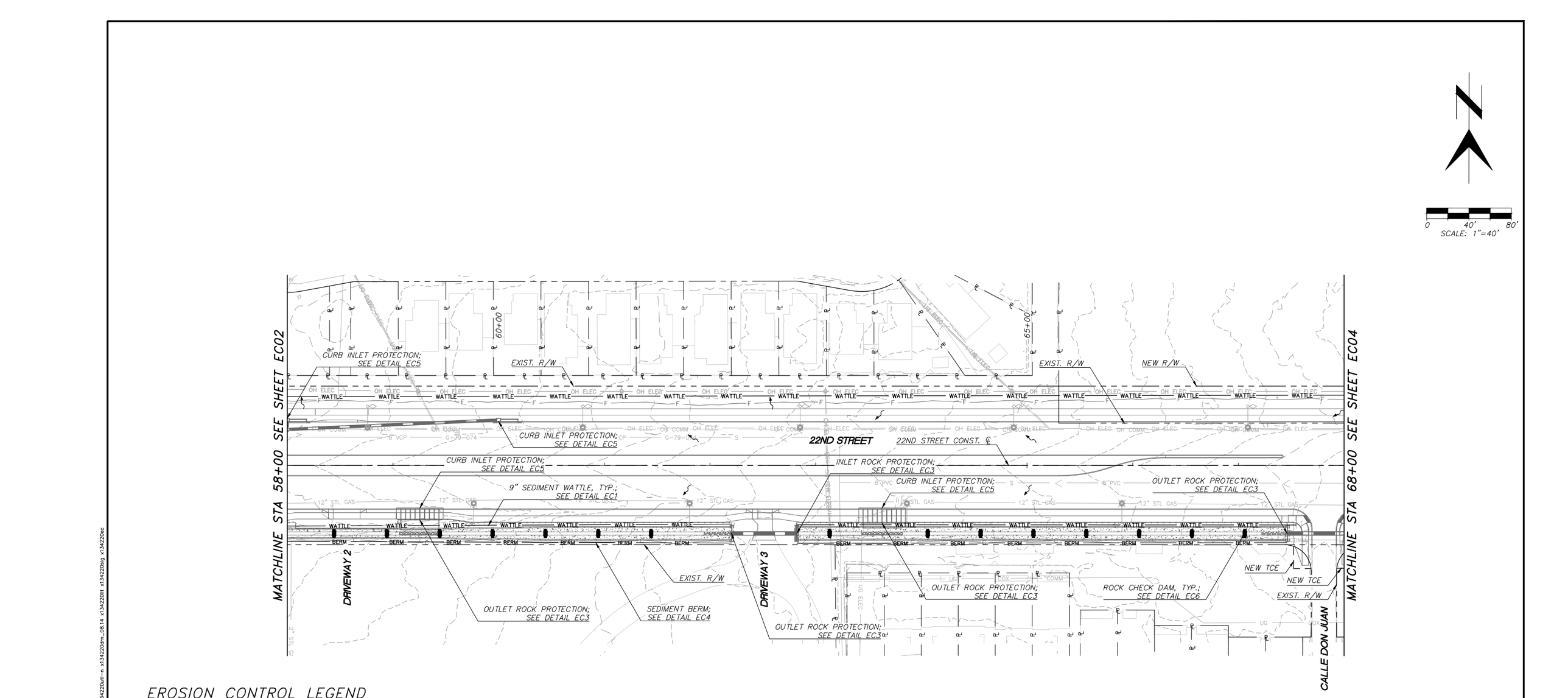
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004



EROSION CONTROL LEGEND

- WATTLE — SEDIMENT WATTLE; SEE DETAIL EC1
- SEDIMENT LOG; SEE DETAIL EC2
- BERM — SEDIMENT BERM; SEE DETAIL EC4
- ROCK CHECK DAM; SEE DETAIL EC6
- FLOW DIRECTION
- MAJOR OUTFALL LOCATION

0 40' 80'
SCALE: 1"=40'

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL PLAN SHEETS - 22ND STREET

CITY OF TUCSON

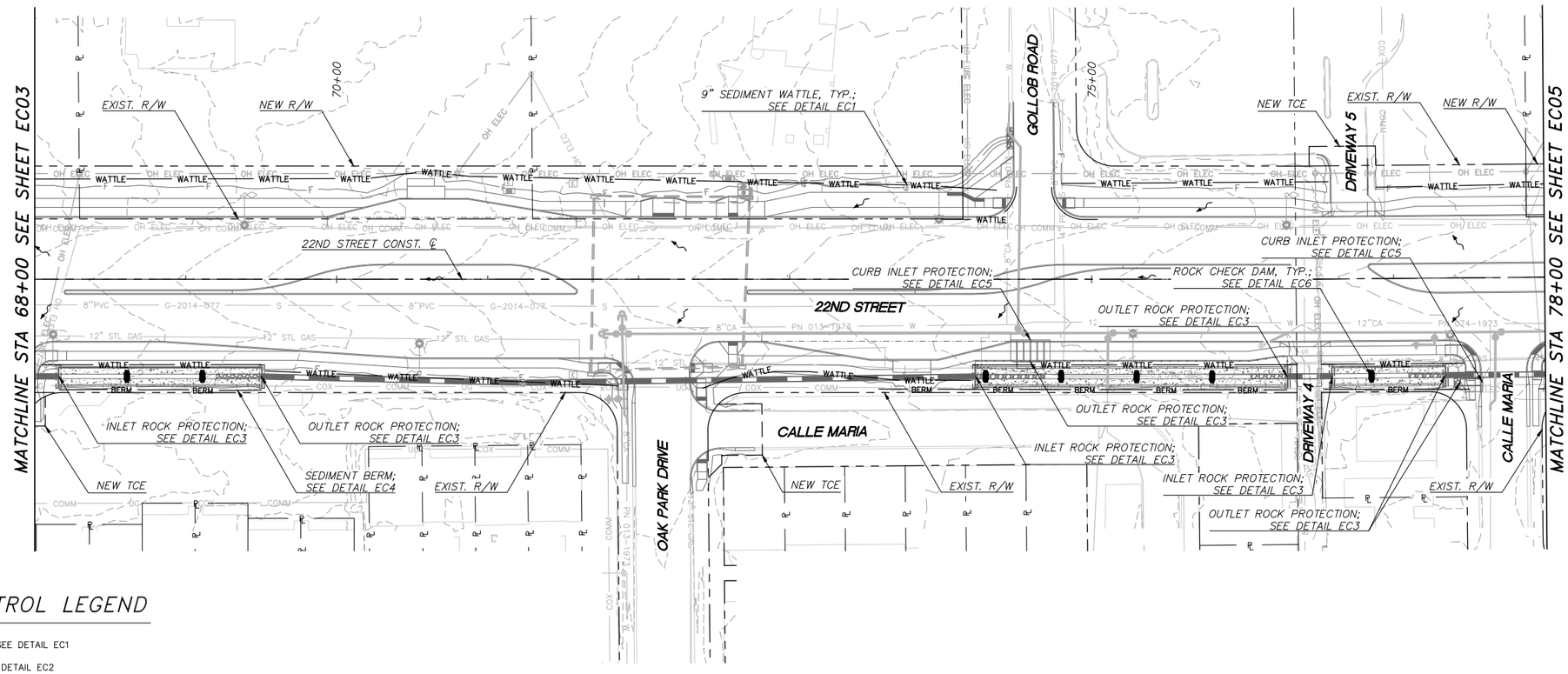
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CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

EC03 OF EC20

189 OF 316

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0 40' 80'
SCALE: 1"=40'

EROSION CONTROL LEGEND

- WATTLE — SEDIMENT WATTLE; SEE DETAIL EC1
- SEDIMENT LOG; SEE DETAIL EC2
- BERM — SEDIMENT BERM; SEE DETAIL EC4
- ROCK CHECK DAM; SEE DETAIL EC6
- FLOW DIRECTION
- MAJOR OUTFALL LOCATION

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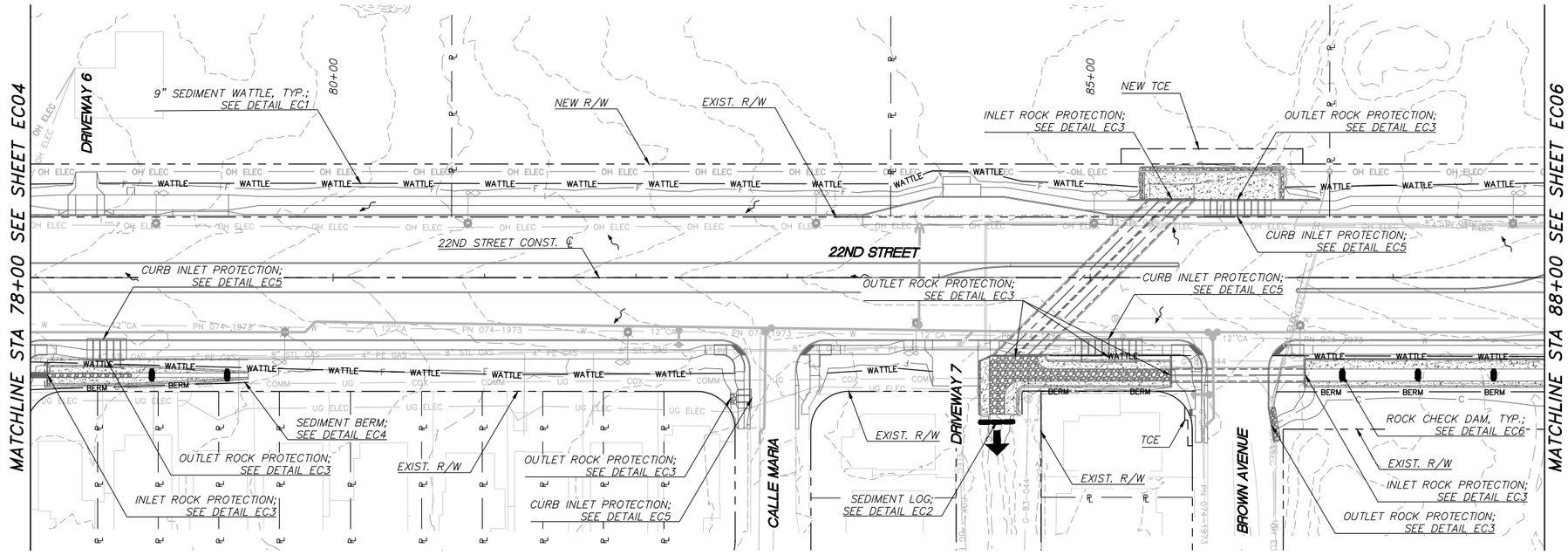
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004



0 40' 80'
SCALE: 1"=40'

EROSION CONTROL LEGEND

—WATTLE—	SEDIMENT WATTLE; SEE DETAIL EC1
▬▬	SEDIMENT LOG; SEE DETAIL EC2
—BERM—	SEDIMENT BERM; SEE DETAIL EC4
⬬	ROCK CHECK DAM; SEE DETAIL EC6
~	FLOW DIRECTION
➡	MAJOR OUTFALL LOCATION

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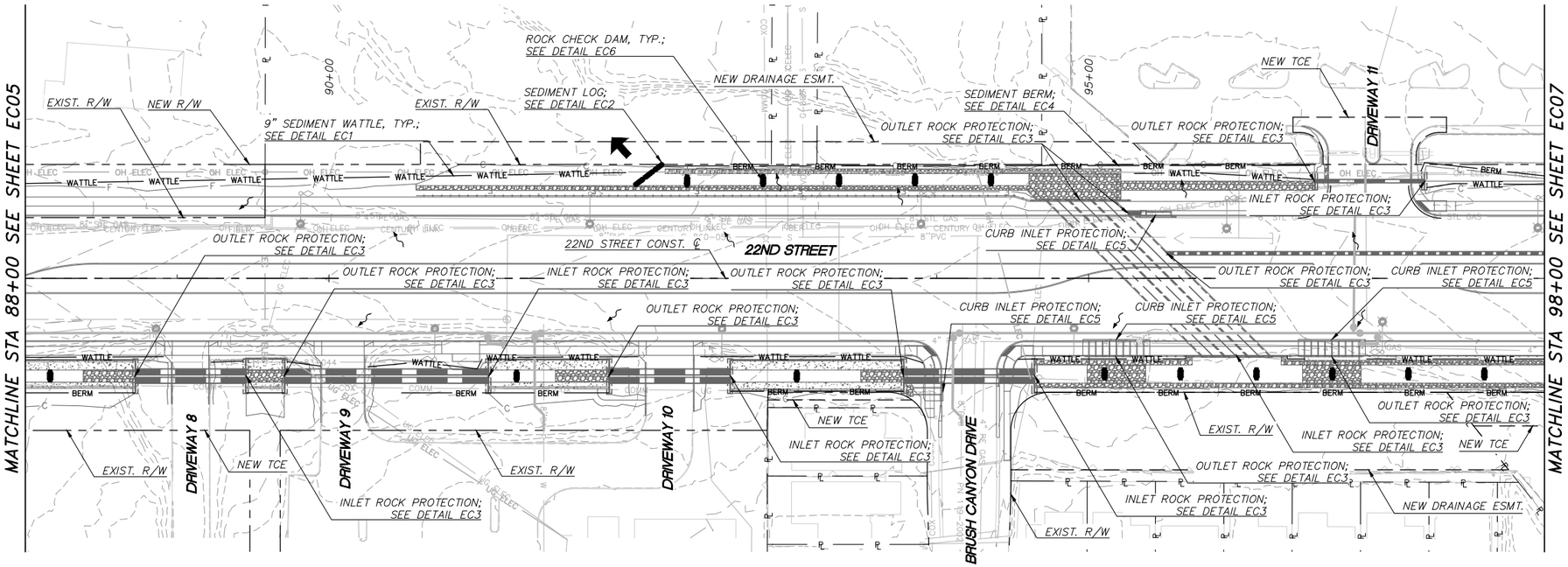
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL PLAN SHEETS - 22ND STREET

CITY OF TUCSON

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CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

EC05 OF EC20

191 OF 316



0 40' 80'
SCALE: 1"=40'

EROSION CONTROL LEGEND

- WATTLE — SEDIMENT WATTLE; SEE DETAIL EC1
- SEDIMENT LOG; SEE DETAIL EC2
- BERM — SEDIMENT BERM; SEE DETAIL EC4
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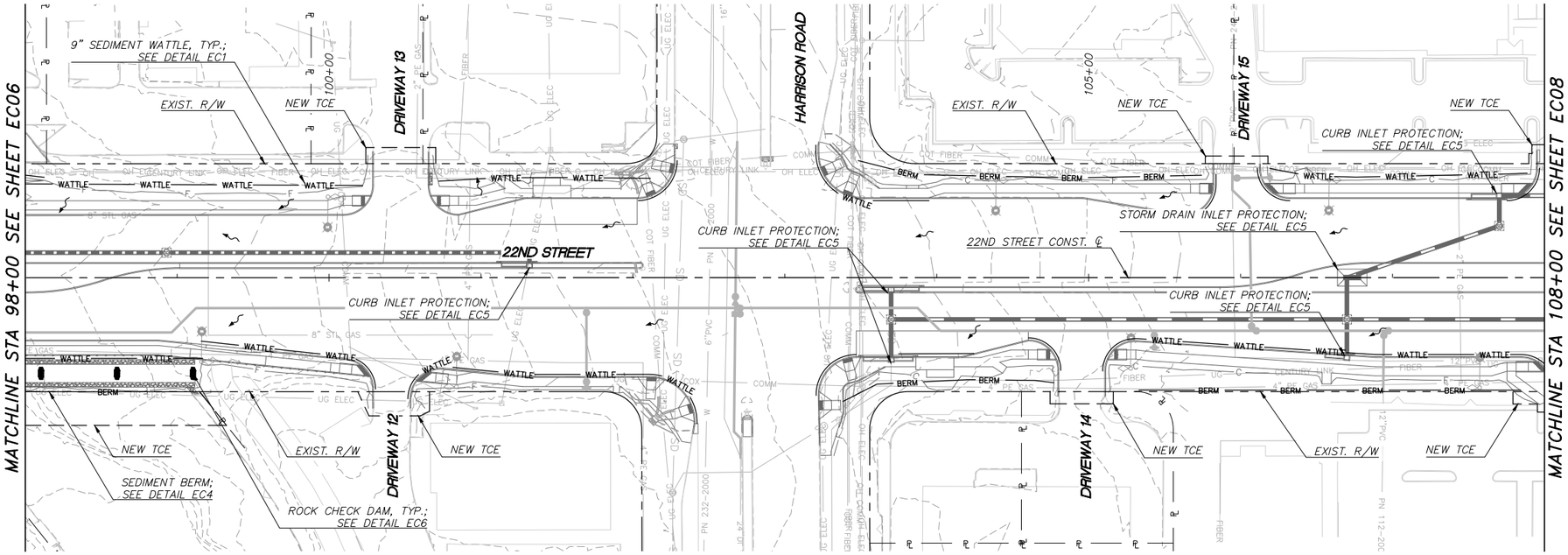
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25.
CHKD. BY J. SENNE AUG 20 25.
APPR. BY R. FIELD AUG 20 25.
SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

EC06 OF EC20

192 OF 316



0 40' 80'
SCALE: 1"=40'

EROSION CONTROL LEGEND

—WATTLE—	SEDIMENT WATTLE; SEE DETAIL EC1
▬▬	SEDIMENT LOG; SEE DETAIL EC2
—BERM—	SEDIMENT BERM; SEE DETAIL EC4
⬬	ROCK CHECK DAM; SEE DETAIL EC6
~	FLOW DIRECTION
➡	MAJOR OUTFALL LOCATION

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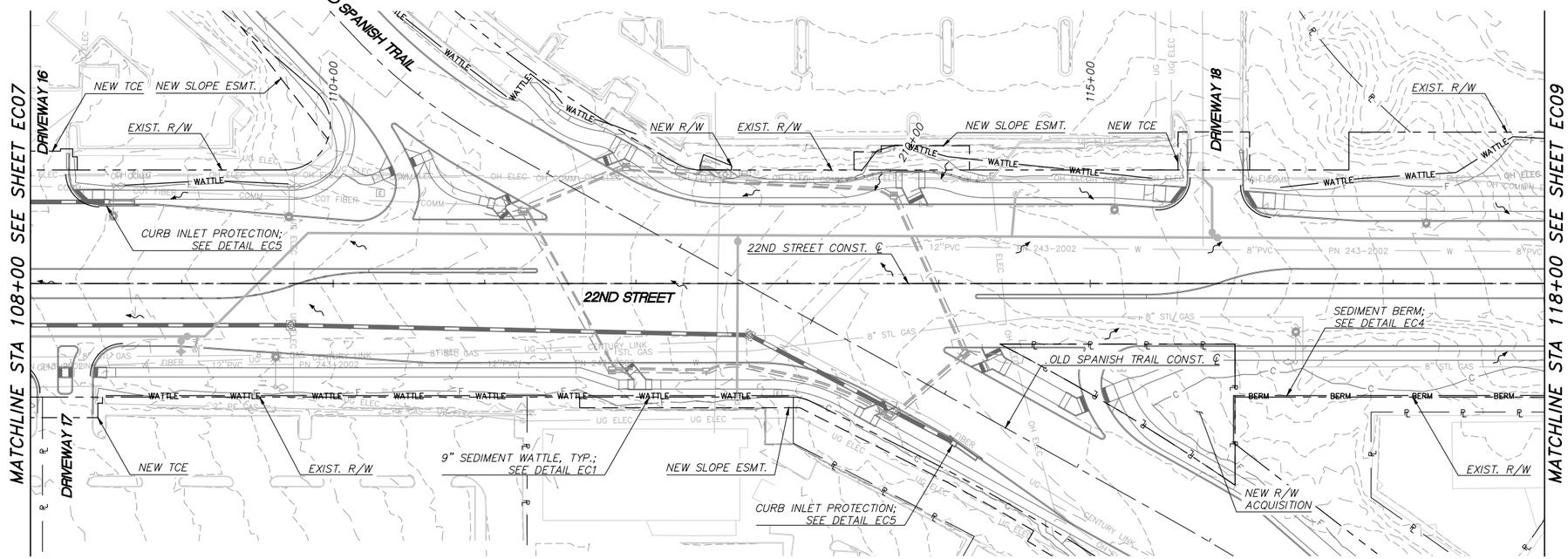
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM	CHKD. BY J. SENNE	APPR. BY R. FIELD	SCALE: H: 1"=40' V: N/A
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004



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SCALE: 1"=40'

EROSION CONTROL LEGEND

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- BERM — SEDIMENT BERM; SEE DETAIL EC4
- ROCK CHECK DAM; SEE DETAIL EC6
- FLOW DIRECTION
- MAJOR OUTFALL LOCATION

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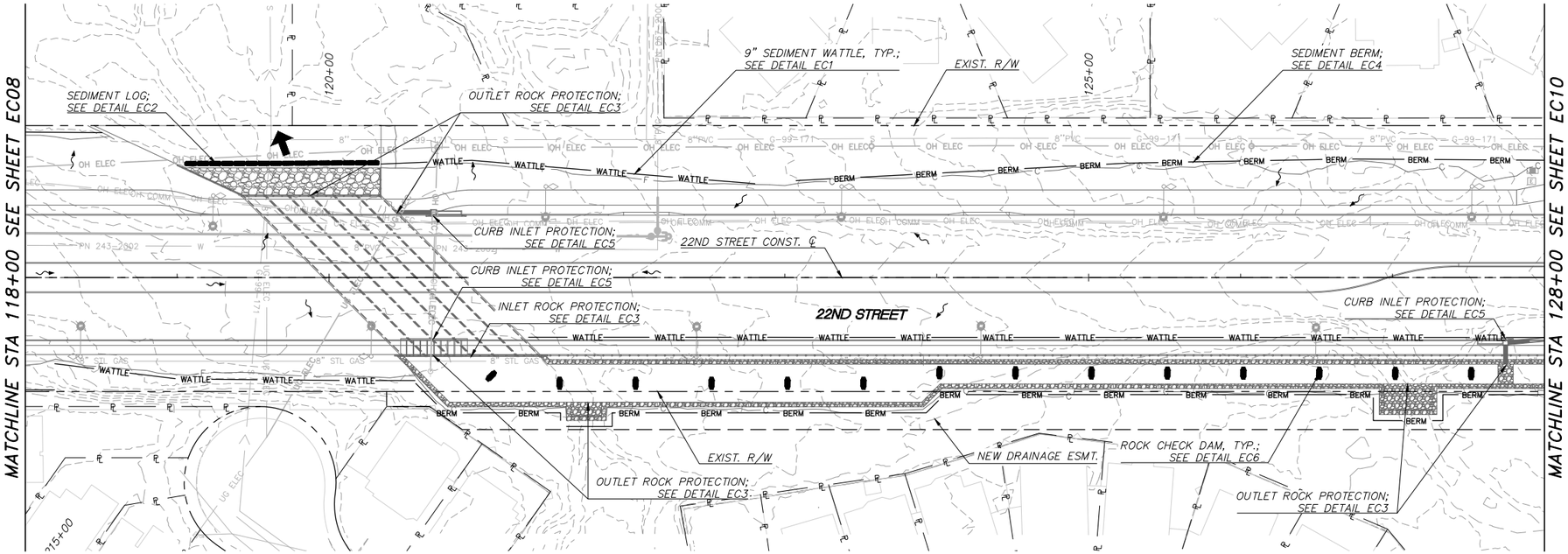
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EROSION CONTROL PLAN SHEETS - 22ND STREET

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AUG 20 25	AUG 20 25	AUG 20 25

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PLAN NO. I-2025-004



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SCALE: 1"=40'

EROSION CONTROL LEGEND

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- BERM — SEDIMENT BERM; SEE DETAIL EC4
- ROCK CHECK DAM; SEE DETAIL EC6
- FLOW DIRECTION
- MAJOR OUTFALL LOCATION

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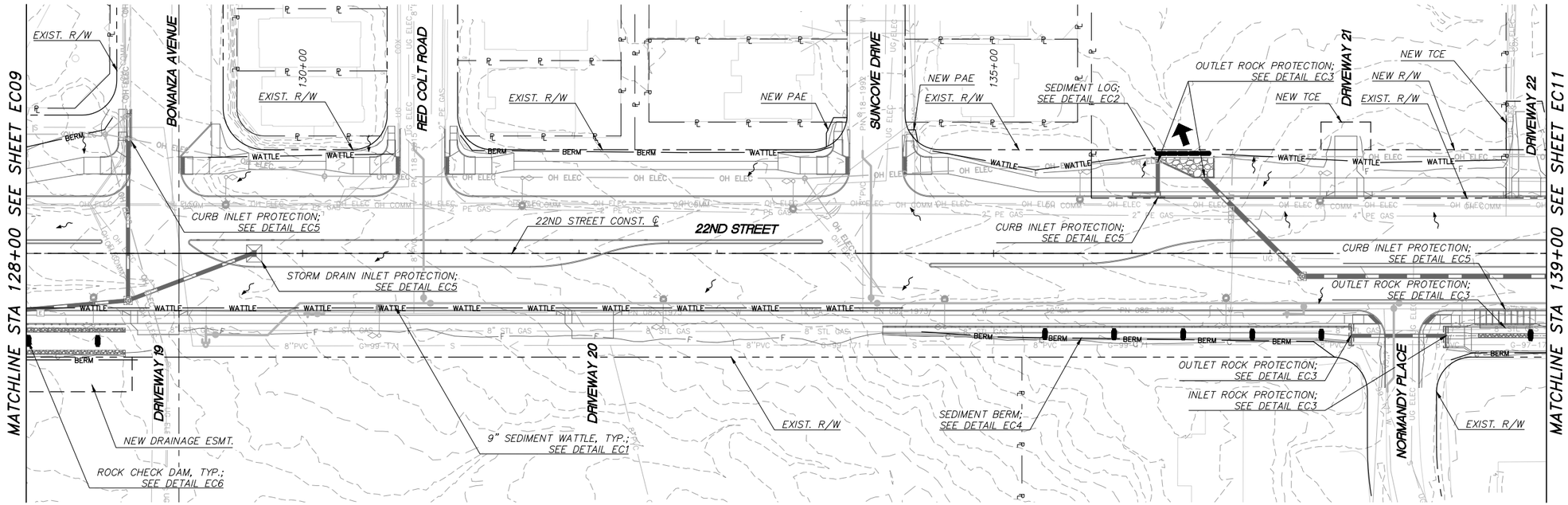
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SCALE: 1"=40'

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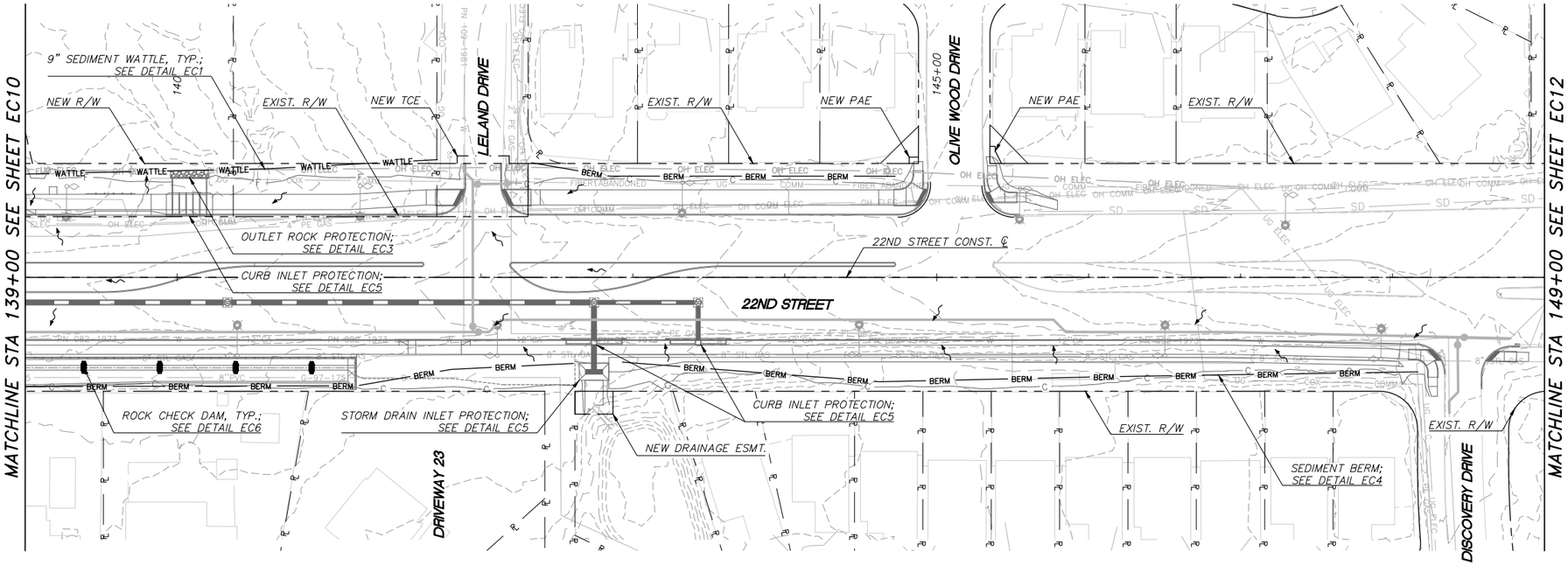
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SCALE: H: 1"=40' V: N/A
PLAN NO. I-2025-004

EC10 OF EC20
196 OF 316



0 40' 80'
SCALE: 1"=40'

EROSION CONTROL LEGEND

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~	FLOW DIRECTION
➡	MAJOR OUTFALL LOCATION

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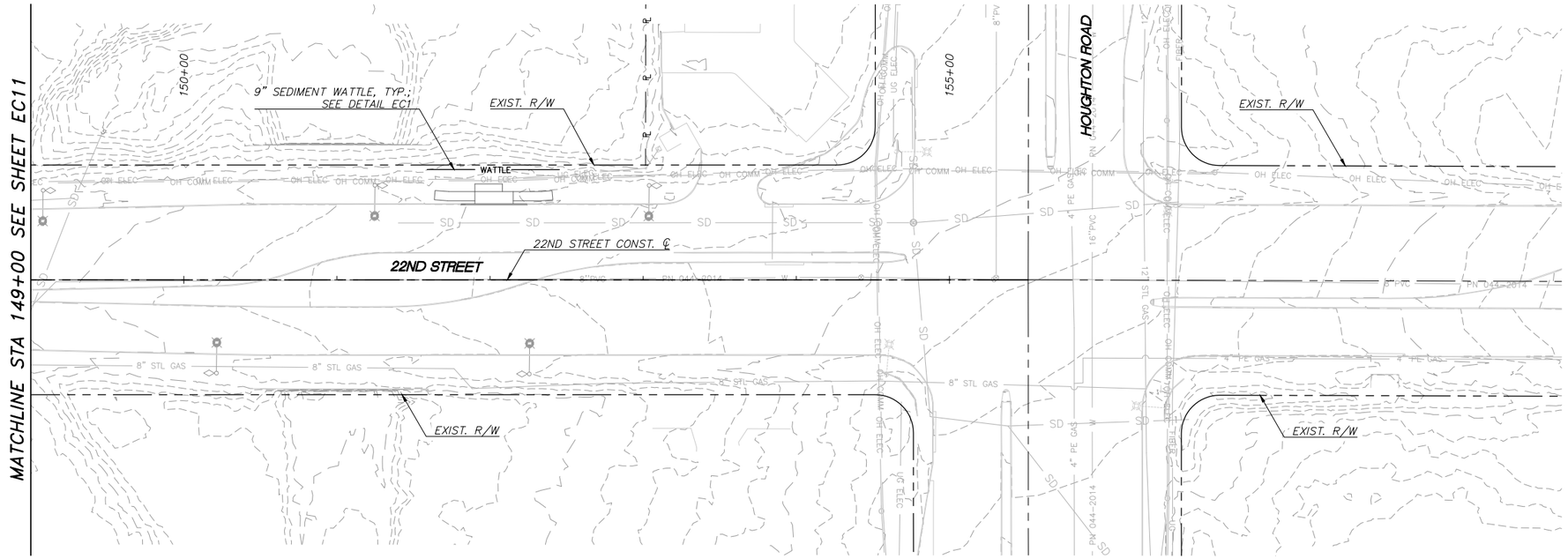
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CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE	PLAN NO.
O. GILLIAM AUG 20 25	J. SENNE AUG 20 25	R. FIELD AUG 20 25	H: 1"=40' V: N/A	I-2025-004



N

0 40' 80'
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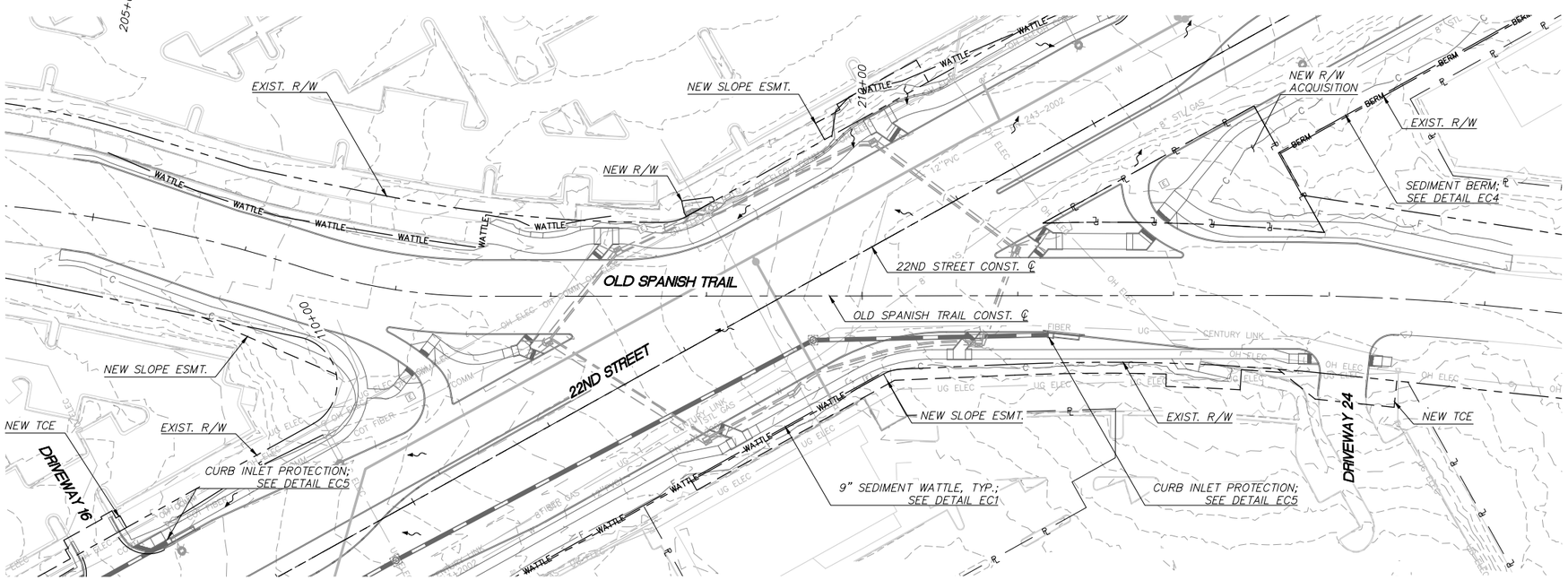
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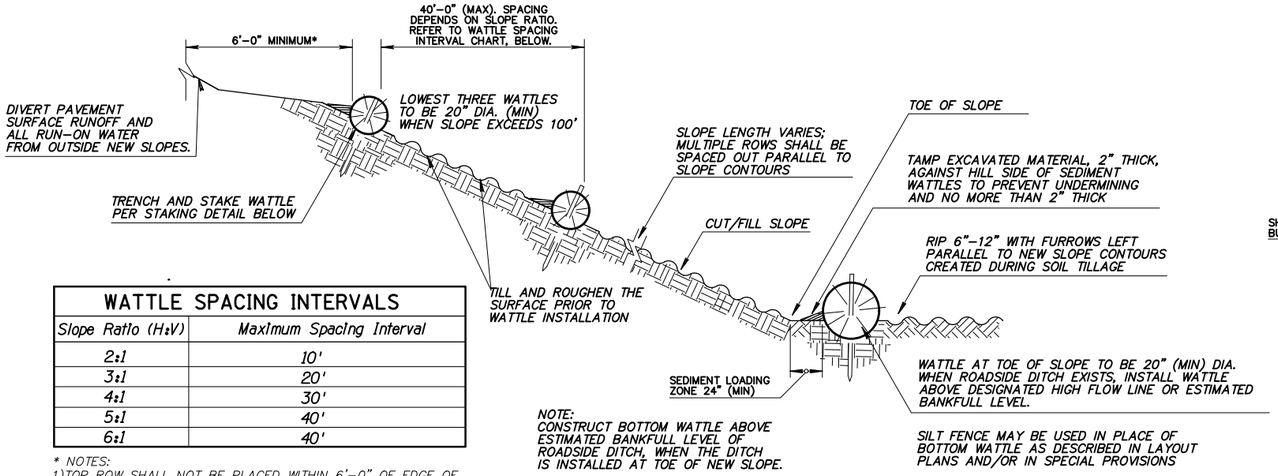
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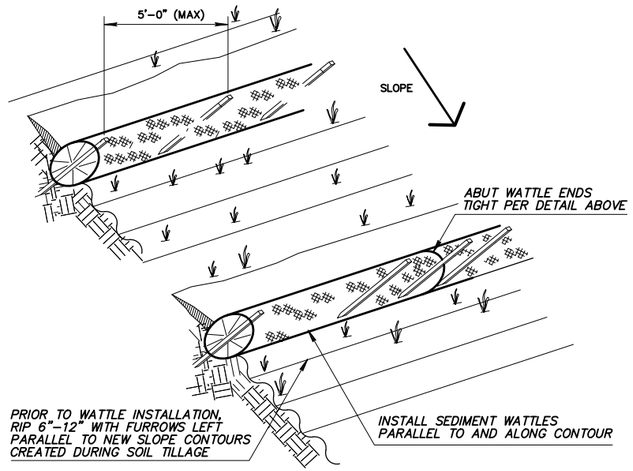
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199 OF 316



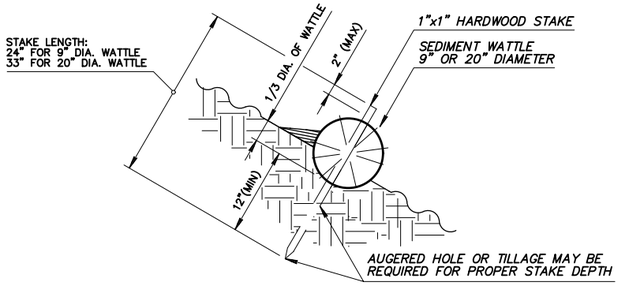
SECTION (NTS)

WATTLE SPACING INTERVALS	
Slope Ratio (H:V)	Maximum Spacing Interval
2:1	10'
3:1	20'
4:1	30'
5:1	40'
6:1	40'

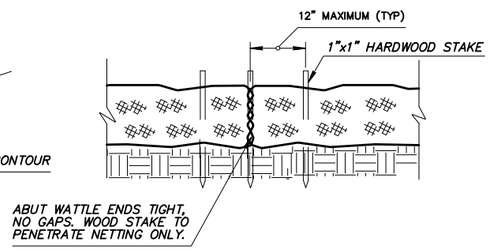
* NOTES:
1) TOP ROW SHALL NOT BE PLACED WITHIN 6'–0" OF EDGE OF PAVEMENT AND 9'–0" FROM OUTSIDE SURFACE OF BARRIER.
2) FOR EROSIVE SOILS, PLACE ROWS OF WATTLES CLOSER TOGETHER.
3) FOR SOILS WITH LOW EROSIVE POTENTIAL, PLACE ROWS OF WATTLES FURTHER APART.



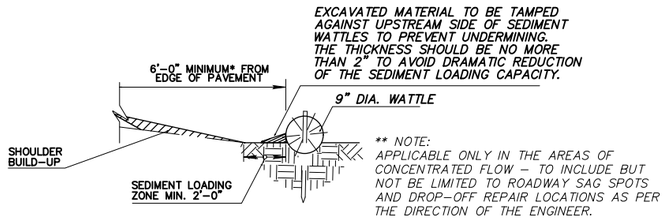
SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE OVERLAP (NTS)



** NOTE:
APPLICABLE ONLY IN THE AREAS OF CONCENTRATED FLOW – TO INCLUDE BUT NOT BE LIMITED TO ROADWAY SAG SPOTS AND DROP–OFF REPAIR LOCATIONS AS PER THE DIRECTION OF THE ENGINEER.

NEW SHOULDER BUILDUP ** PROTECTION SECTION (NTS)

NOTES:

1. INSTALL SEDIMENT WATTLES AS SLOPES ARE CONSTRUCTED TO GRADE OR AS DIRECTED BY THE ENGINEER. SELECT, INSTALL AND MAINTAIN IN CONFORMANCE WITH MANUFACTURERS' SPECIFICATIONS TO MEET SITE CONDITIONS FOR SLOPE PROTECTION AND IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES. NO SEDIMENT WATTLES SHALL BE INSTALLED IN URBAN FREEWAY MEDIANS, NOR WHERE CABLE BARRIER SYSTEMS ARE EMPLOYED.
2. SEDIMENT WATTLES SHALL BE IN CONTINUOUS CONTACT WITH TRENCH BOTTOM AND SIDES. DO NOT OVERLAP WATTLE ENDS ON TOP OF EACH OTHER. A 20" DIA. WATTLE MAY BE MADE FROM 2–3 ROLLED EXCELSIOR OR STRAW BLANKETS.
3. BUTT ADJOINING WATTLES TIGHTLY AGAINST EACH OTHER. DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE TO HELP ABUT THEM TIGHTLY.
4. REPAIR ANY RILLS OR GULLIES PROMPTLY. MAKE FIELD ADJUSTMENTS AND CORRECTIONS OF WATTLE BMP IMMEDIATELY IF IT IS CAUSING FLOODING, EROSION, AND/OR AFFECTING ROADWAY SAFETY.
5. CONSTRUCTION OF CUT SLOPES 2:1 AND STEEPER IN SOIL AND ROCK MATERIALS THAT CAN BE RIPPED SHALL BE CONSTRUCTED, WHENEVER POSSIBLE, BY MINIBENCHING. REFER TO SLOPE MINIBENCHING BMP DETAIL.
6. LOOSENING SURFACE SOIL IS NOT REQUIRED WHERE MINIBENCHES ARE USED. FOR SEEDED AREAS, TILLAGE SHALL BE PERFORMED TO FORM MINOR RIDGES AND FURROWS PARALLEL TO NEW SLOPE CONTOURS AND AS SPECIFIED IN SECTION 805 OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS.
7. DIVERT AND DIRECT RUN–ON WATER FROM OUTSIDE OF THE SLOPES TO THE SPILLWAYS AND/OR ROCK RIPRAP/ROCK MULCH. DIVERSION DIKES AND/OR DITCHES ARE NECESSARY ON NATURAL UNDISTURBED SLOPES BEYOND THE TOP LIMITS OF NEW SLOPES TO DIVERT RUN–ON WATER.
8. INSTALLATION AND MAINTENANCE OF SEDIMENT WATTLE BMPS SHALL NOT NEGATIVELY IMPACT TRAFFIC SAFETY, NOR THE DESIGNED FUNCTION OF ROADWAY OR BRIDGE DRAINAGE FACILITIES.
9. INSTALL AND MAINTAIN SEDIMENT WATTLE BMPS TO CARRY THE STORMWATER OF AT LEAST 2–YEAR, 24–HOUR EVENTS.
10. THE SEDIMENT WATTLE BMP'S PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP: ALL GROUND PREPARATION, FURNISHING, INSTALLING, MAINTENANCE, FINAL REMOVAL, AND DISPOSAL OF THIS TEMPORARY BMP, AS WELL AS RETURNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.
11. REFER TO STANDARD SPECIFICATION SECTION 810–2.06(C) FOR SEDIMENT WATTLE MATERIAL SPECIFICATIONS.
12. MAKE FIELD ADJUSTMENTS AND CORRECTIONS TO ENSURE NO SENSITIVE BIOLOGICAL RESOURCES (NATIVE SPECIES / HABITATS) WILL BE ADVERSELY IMPACTED.

DETAIL EC1
SEDIMENT WATTLE

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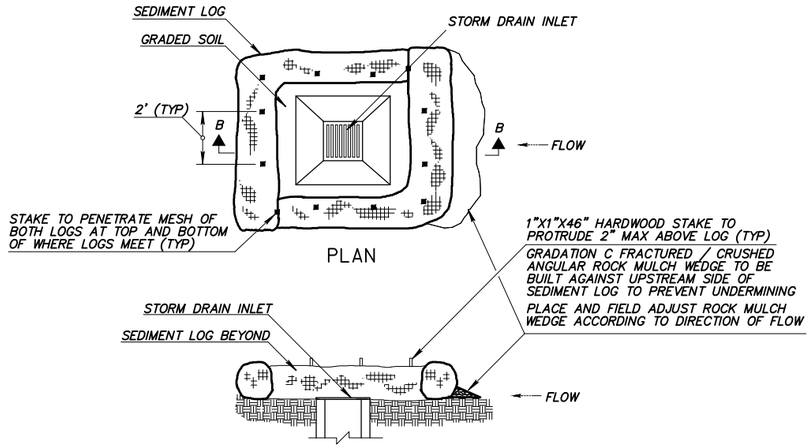
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL DETAILS – 22ND STREET

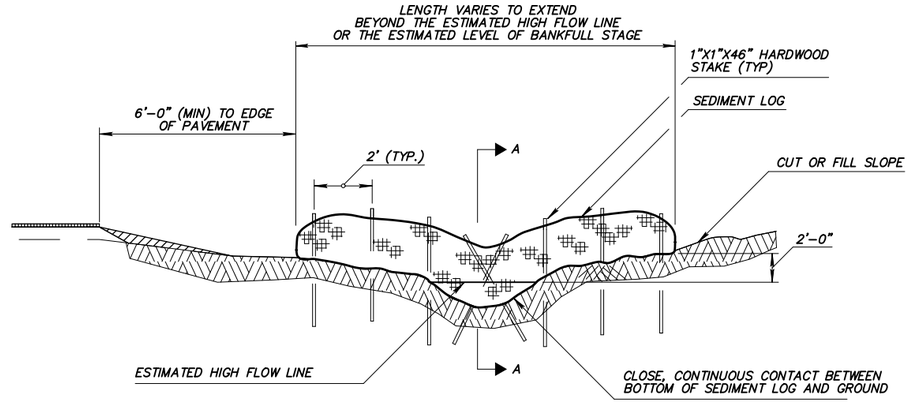
CITY OF TUCSON | DRWN. BY O. GILLIAM AUG 20 25 | CHKD. BY J. SENNE AUG 20 25 | APPR. BY R. FIELD AUG 20 25 | SCALE: H: N/A V: N/A | PLAN NO. I–2025–004

EC14 OF EC20

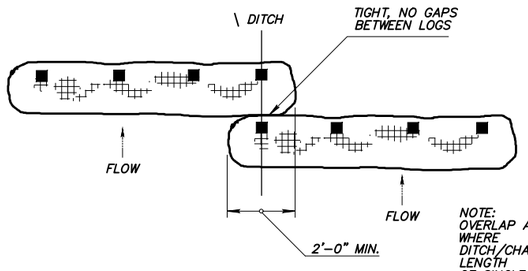
200 OF 316



SEDIMENT LOG AT STORM DRAIN
SECTION B-B (NTS)

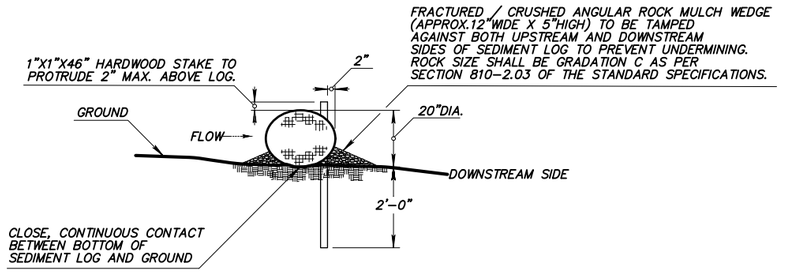


SEDIMENT LOG IN DITCH/CHANNEL
SECTIONAL ELEVATION (NTS)



TYPICAL OVERLAP
PLAN (NTS)

NOTE:
OVERLAP APPLIES TO SITUATIONS WHERE DITCH/CHANNEL IS WIDER THAN LENGTH OF SINGLE SEDIMENT LOG. TWO OR MULTIPLE SEDIMENT LOGS MAY BE NECESSARY.



SECTION A-A (NTS)

NOTES:
1. SEDIMENT LOGS SHALL NOT BE INSTALLED IN THE URBAN FREEWAY MEDIANS, NOR WHERE CABLE BARRIER SYSTEMS ARE EMPLOYED.
2. LOCATE SEDIMENT LOGS AS INDICATED IN PLANS, SWPPP OR AS DIRECTED BY THE ENGINEER.
3. SELECT, INSTALL AND MAINTAIN LOGS PER MANUFACTURERS' SPECIFICATIONS AND GOOD ENGINEERING PRACTICES.
4. LAY SEDIMENT LOG ACROSS PREPARED ROADSIDE DITCH OR CHANNEL. TRENCHING OR BURIAL OF SEDIMENT LOGS IS NOT REQUIRED. THE CLOSE, CONTINUOUS CONTACT BETWEEN THE BOTTOM OF THE LOG AND THE GROUND IS MANDATORY. THE LOGS SHALL BE INSTALLED IN THE ROADSIDE DITCH, SWALE OR CHANNEL BOTTOM PERPENDICULAR TO THE FLOW OF WATER AS SHOWN ON DETAIL THIS SHEET.
5. STAKE LOG AS SHOWN. STAKES SHALL BE PLACED THROUGH DOWNSTREAM SIDE ONLY AS SHOWN.
6. DO NOT DRIVE STAKES THROUGH CENTER OF THE LOG. STAKES MUST BE DRIVEN INTO THE GROUND AS SHOWN.
7. ENSURE THAT NO GAPS EXIST BETWEEN SOIL AND BOTTOM OF SEDIMENT LOG. REPAIR ANY RILLS OR UNDERCUTS PROMPTLY.
8. PLACEMENT OF SEDIMENT LOGS SHALL BE EVALUATED BY THE ENGINEER IN ROCKY SOIL CONDITIONS.
9. REMOVE SEDIMENT LOG BMPS WITHIN THE DITCHES/CHANNELS AND AROUND THE STORM DRAIN INLETS AS PER THE DIRECTION OF THE ENGINEER OR AS SOON AS PRACTICABLE UPON STABILIZATION OF THE CONSTRUCTION DISTURBED AREA.
10. DISPOSE OF SEDIMENT LOGS AND TRAPPED SEDIMENT MATERIAL AND FILL TRENCH CREATED BY SEDIMENT LOG.
11. THE INSTALLATION AND MAINTENANCE OF SEDIMENT LOG BMPS SHALL NOT NEGATIVELY IMPACT TRAFFIC SAFETY, NOR THE DESIGNED FUNCTION OF ROADWAY OR BRIDGE DRAINAGE FACILITIES. SEDIMENT LOGS SHALL BE INSTALLED AND MAINTAINED TO CARRY THE STORMWATER OF AT LEAST 2-YEAR, 24-HOUR EVENTS.
12. MAKE FIELD ADJUSTMENTS AND CORRECTIONS OF SEDIMENT LOG BMP IMMEDIATELY IF IT IS CAUSING FLOODING, EROSION, AND/OR AFFECTING ROADWAY SAFETY.
13. ROCK MULCH/RIPRAP MAY BE REQUIRED FOR CHANNEL/DITCH LINING OR ROCK CHECK DAMS FOR LONGITUDINAL DITCH SLOPES THAT EXCEED 5% AND/OR FOR SOIL CONDITIONS NOT SUITABLE FOR LOG INSTALLATION.
14. THE SEDIMENT LOG BMP'S PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP: ALL GROUND PREPARATION, FURNISHING, INSTALLING, MAINTENANCE, FINAL REMOVAL, AND DISPOSAL, AS WELL AS RETURNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.
15. REFER TO STANDARD SPECIFICATION SECTION 810-2.06(B) FOR SEDIMENT LOG MATERIAL SPECIFICATIONS.
16. MAKE FIELD ADJUSTMENTS AND CORRECTIONS TO ENSURE NO SENSITIVE BIOLOGICAL RESOURCES (NATIVE SPECIES / HABITATS) WILL BE ADVERSELY IMPACTED.
17. CONSTRUCT ROCK WEDGE WITH ANGULAR-SHAPED GRADATION C ROCK MULCH AS DEFINED IN SECTION 810-2.03 OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. NATURAL RIVER-RUN MATERIALS SUCH AS ROUNDED RIVER ROCKS/COBBLESTONES AND PEBBLES ARE NOT ACCEPTABLE.

DETAIL EC2
SEDIMENT LOG

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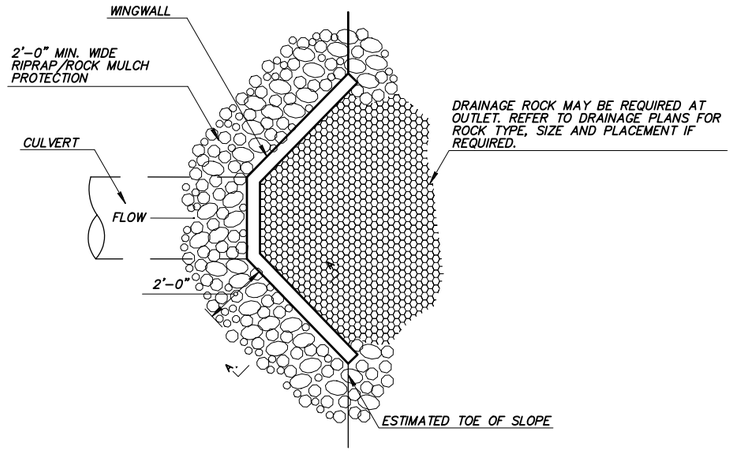
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL DETAILS - 22ND STREET

CITY OF TUCSON

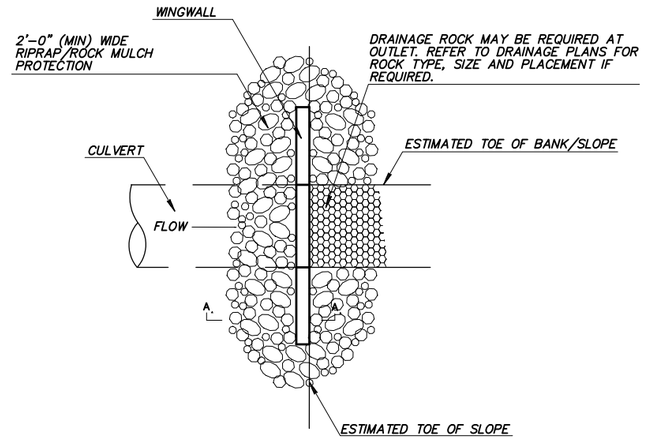
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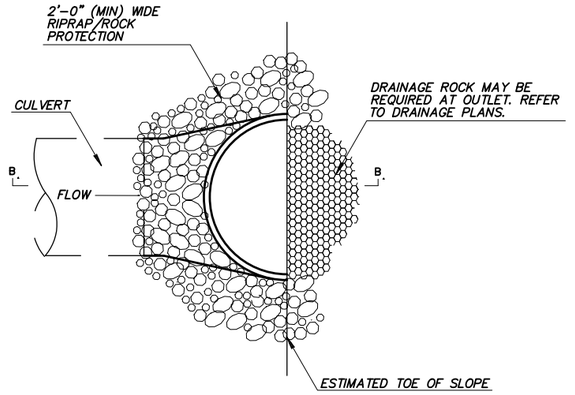
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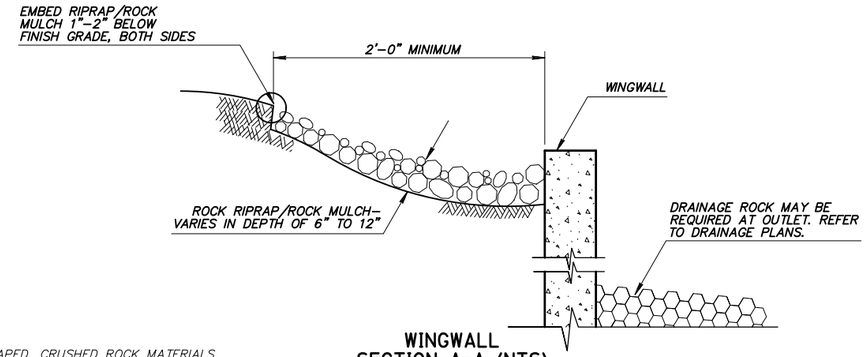
ANGLED HEADWALL
PLAN VIEW (NTS)



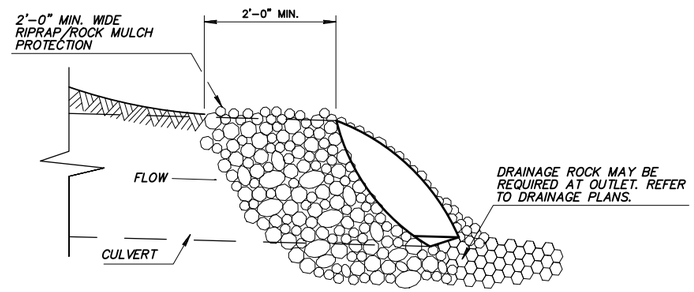
FLUSH HEADWALL
PLAN VIEW (NTS)



FLARED END
PLAN VIEW (NTS)



WINGWALL
SECTION A-A (NTS)



FLARED END
SECTION B-B (NTS)

NOTES:
1. ROCK RIPRAP/ROCK MUCH SHALL BE ANGULAR SHAPED, CRUSHED ROCK MATERIALS.
2. ROCK RIPRAP/ROCK MULCH WITHIN THE TRAFFIC CLEAR ZONE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 810-2.03 SIEVE SIZE GRADATION A AND/OR GRADATION C, AND SECTION 913 OF THE STANDARD SPECIFICATIONS.
3. EMBED ROCK WITHIN TRAFFIC RECOVERY AREA/CLEAR ZONE INTO THE FINISHED GRADE SO THAT ANY PORTION OF THE ROCK ABOVE THE GRADE WILL BE LESS THAN 4" IN HEIGHT.
4. THE INSTALLATION AND MAINTENANCE OF ROCK PROTECTION BMPS SHALL NOT NEGATIVELY IMPACT TRAFFIC SAFETY, NOR THE DESIGNED FUNCTION OF ROADWAY OR BRIDGE DRAINAGE FACILITIES. ROCK PROTECTION BMPS SHALL BE INSTALLED AND MAINTAINED TO CARRY THE STORMWATER OF AT LEAST 2-YEAR, 24-HOUR EVENTS.
5. FIELD ADJUST AND CORRECT ROCK PROTECTION BMP IMMEDIATELY IF IT IS CAUSING FLOODING, EROSION, AND/OR AFFECTING ROADWAY SAFETY.
6. THE ROCK PROTECTION BMP'S PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP: ALL GROUND PREPARATION, FURNISHING, INSTALLING, MAINTAINING AS WELL AS RETURNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.

DETAIL EC3

ROCK PROTECTION FOR INLETS, OUTLETS AND HEADWALL TRANSITION

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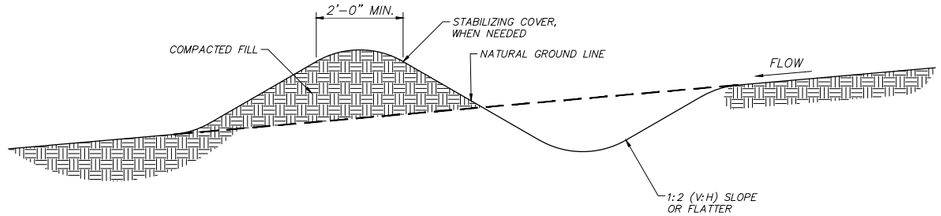
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL DETAILS - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
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NOTES:

1. LOCATE SEDIMENT CONTROL BERMS AS INDICATED ON PLANS OR AS DIRECTED BY THE ENGINEER.
2. SURFACE MATERIALS I.E. SOIL, ROCK, BRANCHES, LEAVES, SLASH AND CHIPS SHALL BE SCRAPED FROM THE EXISTING GRADE AS NEEDED TO CONSTRUCT THE BERM PRIOR TO PLACEMENT OF ROADWAY EMBANKMENT. AFTER SCRAPING MATERIAL INTO BERM, COMPACT BERM AS SHOWN. ROCK AND SLASH SHALL EXTEND NO MORE THAN 4" ABOVE THE SURFACE.
3. CONSTRUCT SEDIMENT CONTROL BERM ON THE SAME CONTOUR AS THE TOE OF NEW SLOPE AND A MINIMUM OF 2'-0" BEYOND THE TOE OF NEW SLOPE. FOR THE SEEDED AREAS, TILL TO FORM MINOR RIDGES AND FURROWS PARALLEL TO NEW SLOPE CONTOURS AND AS SPECIFIED IN SECTION 805 OF THE STANDARD SPECIFICATIONS.
4. THE INSTALLATION AND MAINTENANCE OF SEDIMENT CONTROL BERM BMP'S SHALL NOT NEGATIVELY IMPACT TRAFFIC SAFETY, NOR THE DESIGNED FUNCTION OF ROADWAY OR BRIDGE DRAINAGE FACILITIES. FOR EROSION/SEDIMENT CONTROL PURPOSES, SEDIMENT CONTROL BERM BMP'S SHALL BE INSTALLED AND MAINTAINED TO CARRY THE STORMWATER OF AT LEAST 2-YEAR, 24-HOUR EVENTS.
5. REMOVE SEDIMENT CONTROL BERMS PER THE DIRECTION OF THE ENGINEER OR AS SOON AS PRACTICABLE UPON STABILIZATION OF THE CONSTRUCTION DISTURBED AREA.
6. FIELD ADJUSTED AND CORRECT SEDIMENT CONTROL BERM BMP IMMEDIATELY IF CAUSING FLOODING, EROSION, AND/OR AFFECTING ROADWAY SAFETY.
7. SEDIMENT CONTROL BERMS MAY BE PAID AS A PART OF SLOPE CONSTRUCTION/ROADWAY EXCAVATION. WHEN PAID SEPARATELY, THE SEDIMENT CONTROL BMP'S PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP: ALL GROUND PREPARATION, FURNISHING, INSTALLING, FINAL REMOVAL, AND DISPOSAL OF THIS TEMPORARY BMP, AS WELL AS RETURNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.
8. OPTION TO SEDIMENT CONTROL BERM: WHEN SHOWN ON LAYOUT PLANS AND/OR CALLED FOR IN SPECIAL PROVISIONS, FOR URBAN SITUATIONS, OR WHERE SURFACE MATERIALS ARE NOT AVAILABLE, USE WATTLES. WATTLES SHALL BE SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. REFER TO SEDIMENT WATTLE BMP.

DETAIL EC4
SEDIMENT BERM

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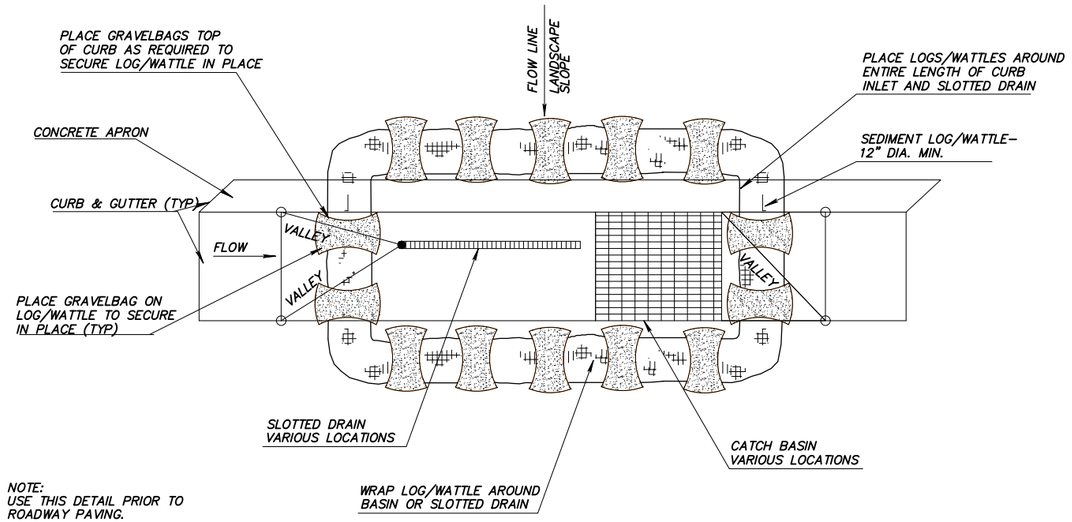
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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL DETAILS - 22ND STREET

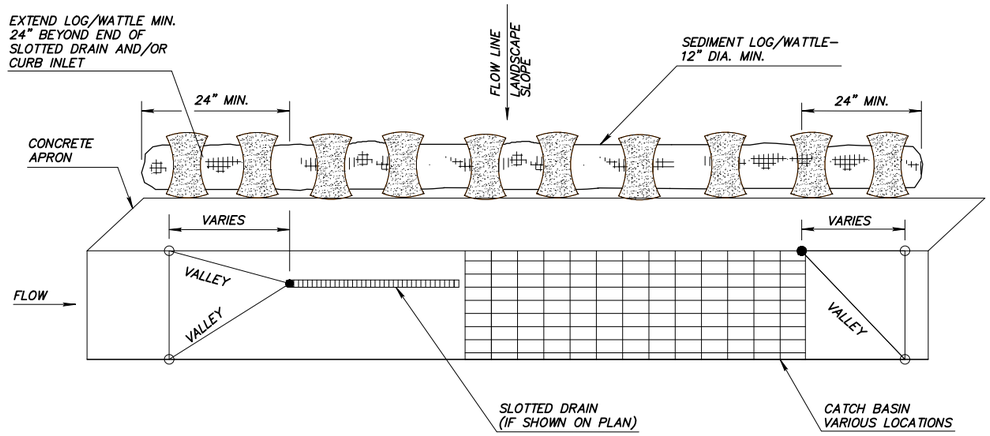
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NOTE:
USE THIS DETAIL PRIOR TO ROADWAY PAVING.

PLAN VIEW
(NTS)



PLAN VIEW
(NTS)

NOTE:
USE THIS DETAIL AFTER ROADWAY PAVING. REMOVE WATTLES DIRECTLY PRIOR TO EROSION CONTROL SEEDING OPERATIONS.

NOTES:
1. SEDIMENT LOG/WATTLE STORM DRAIN INLET PROTECTION BMP SHALL NOT BE APPLIED IN THE AREA OF OPEN TRAFFIC.
2. THE INSTALLATION AND MAINTENANCE OF SEDIMENT LOG/WATTLE STORM DRAIN CURB INLET PROTECTION BMPS SHALL NOT NEGATIVELY IMPACT TRAFFIC SAFETY, AS WELL AS THE DESIGNED FUNCTION OF ROADWAY OR BRIDGE DRAINAGE FACILITIES. FOR EROSION/SEDIMENT CONTROL PURPOSES, SEDIMENT LOG/WATTLE STORM DRAIN CURB INLET PROTECTION BMPS SHALL BE INSTALLED AND MAINTAINED TO CARRY THE STORM WATER OF AT LEAST 2–YEAR, 24–HOUR EVENTS.
3. THE SEDIMENT LOG/WATTLE STORM DRAIN INLET PROTECTION BMP'S PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP, ALL GROUND PREPARATION, FURNISHING, INSTALLING, MAINTENANCE DURING CONSTRUCTION OPERATIONS, FINAL REMOVAL, AND DISPOSAL OF THIS TEMPORARY BMP, AS WELL AS RETUNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.
4. DO NOT PLACE GRAVEL BAGS IN SHOULDER AREAS OR PAVED TRAFFIC LANES.
5. OVERLAP LOGS/WATTLES ON TOP OF CURB AND GUTTERS ONLY.
6. LOGS/WATTLES ARE TO REMAIN IN PLACE DURING CONSTRUCTION AS DIRECTED IN DETAILS ABOVE UNTIL SEEDING TAKES PLACE.

DETAIL EC5
SEDIMENT LOG/WATTLE
STORM DRAIN CURB INLETS

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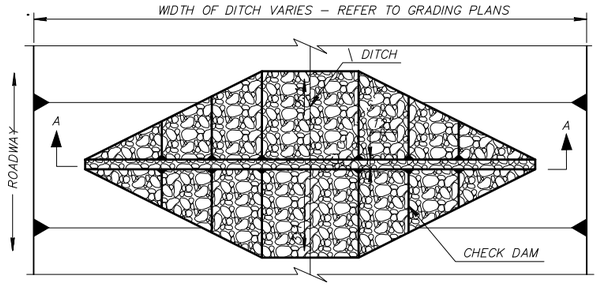
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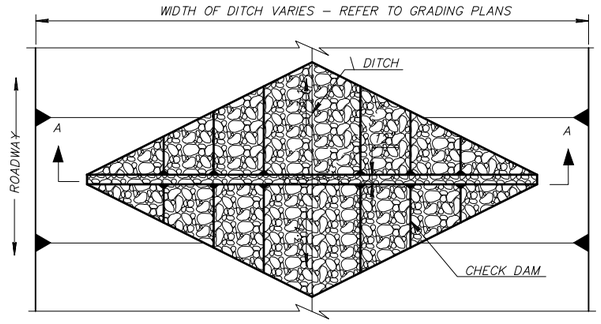
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ROAD WIDENING PROJECT
EROSION CONTROL DETAILS – 22ND STREET

CITY OF TUCSON

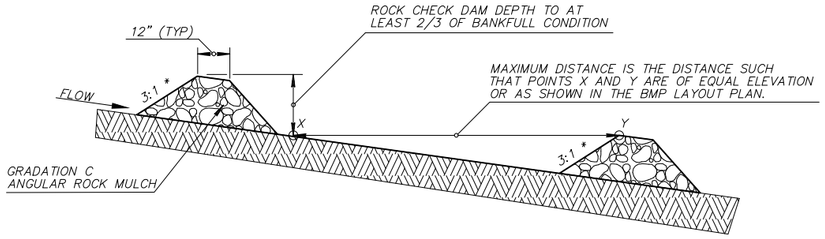
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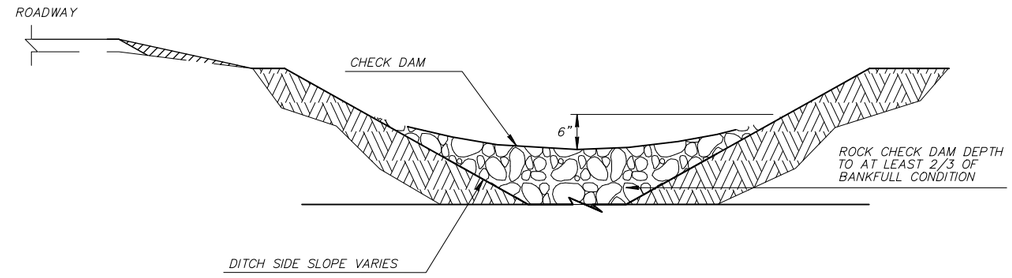
TRAPEZOIDAL DITCH PLAN (NTS)



V-DITCH PLAN (NTS)



ELEVATION ALONG DITCH SLOPE
(NTS)



SECTION A-A
TRAPEZOIDAL- OR V-DITCH
(NTS)

NOTES:

1. CONSTRUCT ROCK CHECK DAMS WITH ANGULAR–SHAPED GRADATION C ROCK MULCH AS DEFINED IN SECTION 810–2.03 OF THE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. NATURAL RIVER–RUN MATERIALS SUCH AS ROUNDED RIVER ROCKS/COBBLESTONES AND PEBBLES ARE NOT ACCEPTABLE.
2. * SLOPE SHALL BE 1(V) : 6(H) OR FLATTER IF CHECK DAM IS WITHIN THE TRAFFIC CLEAR ZONE/RECOVERY AREAS AS DEFINED IN ADOT ROADWAY DESIGN GUIDELINES (303.2 TO 303.3 ROADSIDE RECOVERY AREA).
3. MAKE FIELD ADJUSTMENTS OF SIZING AND SPACING OF ROCK CHECK DAMS AS NECESSARY FOR TRAFFIC SAFETY AS WELL AS PROPER FUNCTIONING OF THE DRAINAGE FACILITIES.
4. FLATTEN AND RE–GRADE ROCK CHECK DAMS TO THE FINISHED GRADE, LEVEL WITHIN THE DITCH, AS SOON AS PRACTICABLE AFTER FINAL STABILIZATION.
5. MAKE FIELD ADJUSTMENTS AND CORRECTIONS OF ROCK CHECK DAM BMP IMMEDIATELY IF IT IS CAUSING FLOODING, EROSION, AND/OR AFFECTING ROADWAY SAFETY.
6. MAKE FIELD ADJUSTMENTS TO ENSURE THE TOP OF THE ROCK CHECK DAM IS APPROXIMATELY 2/3 HEIGHT OF THE ESTIMATED DITCH BANKFULL LEVEL.
7. WHEN PAID SEPARATELY, THE ROCK CHECK DAM BMP PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP: ALL GROUND PREPARATION, FURNISHING, INSTALLING, MAINTENANCE, FLATTENING/GRADING BACK TO THE FINISHED GRADE, AS WELL AS RETURNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.
8. MAKE FIELD ADJUSTMENTS AND CORRECTIONS TO ENSURE NO SENSITIVE BIOLOGICAL RESOURCES (NATIVE SPECIES / HABITATS) WILL BE ADVERSELY IMPACTED.

DETAIL EC6
ROCK CHECK DAM

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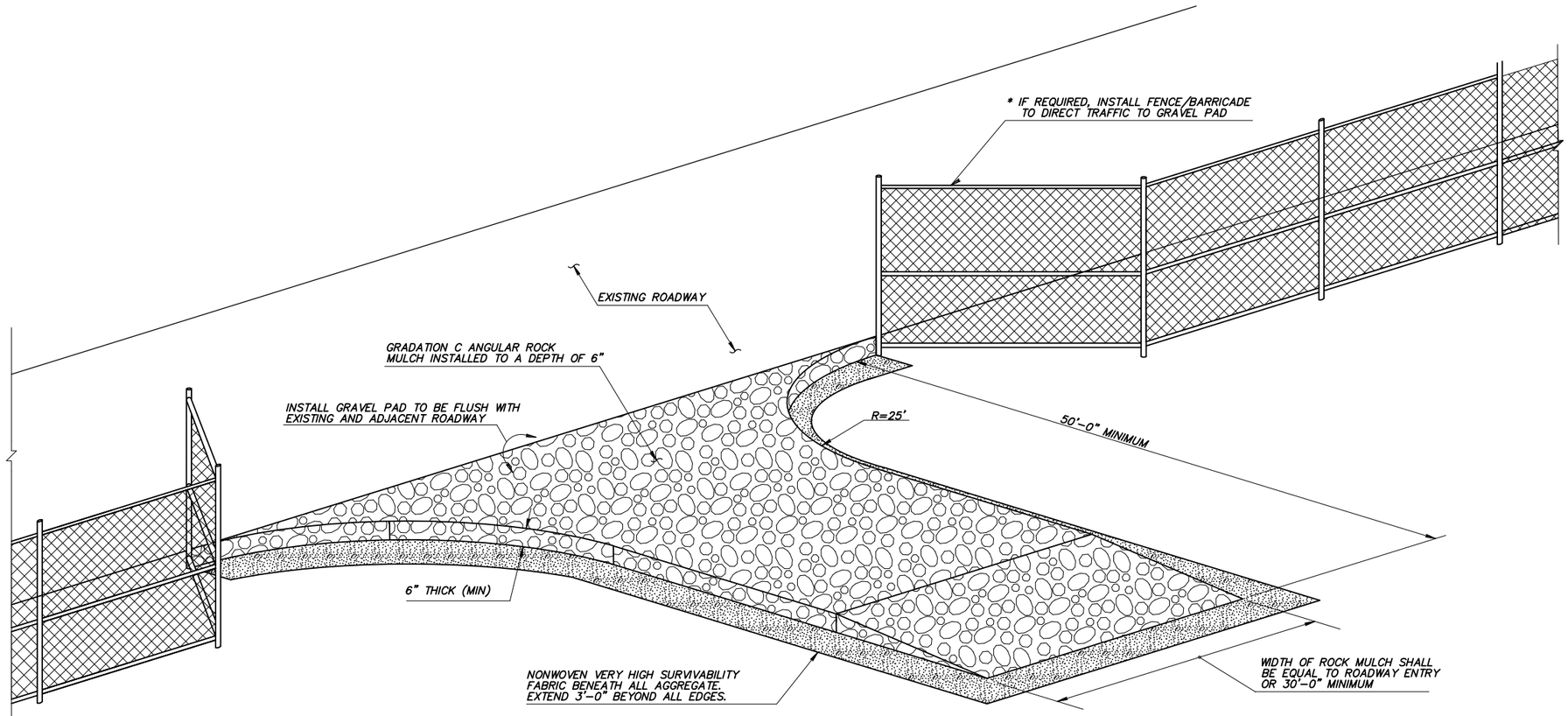
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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL DETAILS – 22ND STREET

CITY OF TUCSON

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BIRD'S EYE VIEW (NTS)

NOTES:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD BMP FOR TRAFFIC ENTERING OR EXITING A CONSTRUCTION SITE WHERE SEDIMENTATION, CLAY, SILT OR OTHER POLLUTANTS CAN BE TRACKED ONTO PUBLIC ROADS AND/OR ADJACENT WATER BODIES, AS APPROVED BY THE ENGINEER. IT MAY ALSO BE APPLIED FOR CONSTRUCTION ENTRANCE/EXIT WIND EROSION/DUST CONTROL, AS APPROVED BY THE ENGINEER.
2. LOCATE NEW CONSTRUCTION ENTRANCE(S)/EXIT(S) AT APPROPRIATE PROJECT ENTRANCE/EXIT POINTS AS DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER. RELOCATE STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD BMP AS NEEDED AS PROJECT PROGRESSES. REPLACE ROCK MULCH MATERIALS IN DRIVE PATHS WHEN DIRT OR MUD ACCUMULATES.
3. NONWOVEN VERY HIGH SURVIVABILITY FABRIC SHALL CONFORM TO THE STANDARDS OF SUB-SECTION 1014-4.04 OF THE STANDARD SPECIFICATIONS.
4. ROCK MULCH MATERIALS SHALL BE FRACTURED/CRUSHED ROCKS IN ANGULAR SHAPE AND AS DEFINED IN THE SUB-SECTION 810-2.03 OF THE STANDARD SPECIFICATIONS. NATURAL RIVER-RUN MATERIALS, ESPECIALLY ROUNDED NATURAL RIVER ROCKS ARE NOT ACCEPTABLE.
5. FIELD ADJUST AND CORRECT CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD BMP IMMEDIATELY IF IT IS CAUSING FLOODING AND/OR AFFECTING ROADWAY SAFETY.
6. WHEN PAID SEPARATELY, THE STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD BMP'S PAY/BID ITEM SHALL INCLUDE ALL MATERIALS USED FOR THIS BMP: ALL GROUND PREPARATION, FURNISHING, INSTALLING, FINAL REMOVAL, AND DISPOSAL OF THIS TEMPORARY BMP, AS WELL AS RETURNING THE AREA TO AN ACCEPTABLE CONDITION AS APPROVED BY THE ENGINEER.
7. * FENCE/BARRICADE PAY/BID ITEM SHALL NOT BE INCLUDED AS A COMPONENT OF THE STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD BMP PAY/BID ITEM.

DETAIL EC7

STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
EROSION CONTROL DETAILS - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25

SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

LANDSCAPE GENERAL NOTES

1. ALL WORK SHALL BE CONFINED TO LIMITS OF CONSTRUCTION AS SHOWN ON PLANS.
2. ALL PLANT QUANTITIES TO BE VERIFIED PRIOR TO PROCUREMENT. QUANTITIES SHOWN ON LEGEND ARE FOR REFERENCE ONLY. IN CASE OF DISCREPANCY, QUANTITIES SHOWN ON PLAN WILL PREVAIL.
3. INSTALL PLATING MATERIAL IN ALL PLANTING AREAS (NON-PAVED AREAS) TO REDUCE DUST POLLUTION. REFER TO PLANS AND TO SPECIFICATIONS.
4. CONTRACTOR SHALL PROTECT PLANTS TO BE PRESERVED-IN-PLACE DURING CONSTRUCTION. ALL AREAS TO REMAIN UNDISTURBED AND PLANTS DESIGNATED TO BE PRESERVED-IN-PLACE SHALL BE FENCED OFF. FENCING WILL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
5. ALL TREES SHALL BE LOCATED A MINIMUM OF 8'-0" FROM GAS LINES AND 10'-0" FROM WATER LINES.
6. TREES SHALL BE LOCATED A MINIMUM OF 10'-0" FROM SEWER LINES. MAINTAIN A 16'-0" CLEAR ACCESS PATH TO ALL MANHOLES. NO TREE SHALL BE LOCATED WITHIN 16'-0" OF A MANHOLE. REFER TO PIMA COUNTY WASTEWATER MANAGEMENT STANDARD DETAILS RWRD 111 AND RWRD 112 FOR ADDITIONAL INFORMATION REGARDING PLANTING ADJACENT TO SEWER LINES.
7. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE PROJECT ENGINEER MAY BE CAUSE FOR THE WORK TO BE DESIGNATED UNACCEPTABLE.
8. THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT THEIR RISK UNTIL SITE IS ACCEPTED, AND THEY WILL BE HELD RESPONSIBLE FOR ITS SAFETY BY THE OWNER.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, ROCK MULCH, AND OTHER MATERIALS TRACKED ONTO ANY PRIVATE OR PUBLIC STREETS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN THESE DAILY, IF NECESSARY. THE CONTRACTOR MUST USE WATER OR OTHER ACCEPTABLE METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING ELEMENTS THAT ARE TO REMAIN.
11. ALL PLANTING AREAS SHALL BE GRADED TO CREATE A WATER HARVESTING AREA OR SWALE.
12. THESE LANDSCAPE PLANS ARE DESIGNED TO MEET THE REQUIREMENTS AND INTENTIONS OF THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT'S SECTION 7.7 OF THE ENGINEERING DESIGN STANDARDS AND STANDARD DETAILS RWRD 111 AND RWRD 112, LATEST EDITION.
13. MAINTAIN THE FOLLOWING OFFSETS BETWEEN WATER HARVESTING BASINS AND UTILITY/SITE FEATURES:
    - SIGNS (NEW AND EXISTING): 3' FROM CENTER OF POLE
    - PATHWAY LIGHTING: 5' FROM CENTER OF POLE
    - POWER POLE/SANITARY SEWER MANHOLES/FIRE HYDRANTS: 10' FROM CENTER OF OBJECT
    - BASINS SHALL NOT BE CONSTRUCTED WITHIN THE DRIPLINES OF EXISTING TREES.
14. IF NEW LANDSCAPING IS TO BE PLANTED NEAR A DESIGNATED BUS STOP, THE LANDSCAPING ON APPROACH TO BUS STOP WILL BE LOW FOR VISIBILITY OF RIDERS SITTING AT THE BUS STOP. TREES AND LARGER LANDSCAPING TO BE ON THE BACK OR FAR SIDE OF THE BUS STOP AS TRAVELING ON ROADWAY OR SIDEWALK.

LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME / COMMON NAME	SIZE	QTY.	GPH
	ACACIA CONSTRICTA WHITETHORN ACACIA	24" BOX	92	6
	CHILOPSIS LINEARIS DESERT WILLOW	24" BOX	21	6
	PARKINSONIA FLORIDA BLUE PALO VERDE	24" BOX	103	6
	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE	24" BOX	136	6
	PROSOPIS VELUTINA VELVET MESQUITE	24" BOX	98	6
	EXISTING TREE TO REMAIN	---	---	---

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME / COMMON NAME	SIZE	QTY.	GPH
	ASCLEPIAS SUBULATA DESERT MILKWEED	5 GAL	220	1
	BAILEYA MULTIRADIATA DESERT MARIGOLD	1 GAL	308	1
	CALLIANDRA ERIOPHYLLA PINK FAIRY DUSTER	5 GAL	206	1
	CELTIS PALLIDA DESERT HACKBERRY	5 GAL	144	1
	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA	5 GAL	47	1
	ENCELIA FARINOSA BRITTLEBUSH	1 GAL	365	1
	LARREA TRIDENTATA CREOSOTE	5 GAL	221	1
	LYCIUM FREMONTII WOLFBERRY	5 GAL	56	1
	MELAMPODIUM LEUCANTHUM BLACKFOOT DAISY	1 GAL	500	1
	SIMMONDSIA CHINENSIS JOJOBA	5 GAL	117	1
	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW	1 GAL	236	1
	ZIZIPHUS OBTUSIFOLIA VAR. CANESCENS GREYTHORN	5 GAL	38	1

ACCENTS / CACTI

SYMBOL	BOTANICAL NAME / COMMON NAME	SIZE	QTY.	GPH
	CARNEGIEA GIGANTEA SAGUARO	6-8' HT TOS	41 9	0.5
	DASYLIRION WHEELERI DESERT SPOON	5 GAL	260	1
	FEROCACTUS WISLIZENII FISHHOOK BARREL	1 GAL TOS	138 180	0.5
	FOUQUIERIA SPLENDENS COACHWHIP OCOTILLO	6' HT	195	0.5
	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED YUCCA	5 GAL	745	0.5
	NOLINA MICROCARPA BEARGRASS	5 GAL	254	1
	OPUNTIA BASILARIS BEAVERTAIL CACTUS	5 GAL	398	0.5
	YUCCA ELATA SOAPTREE YUCCA	5 GAL	38	1
	YUCCA PALLIDA PALE-LEAF YUCCA	5 GAL	341	1
	EXISTING SHRUB/ACCENT TO REMAIN	---	---	---

ADDITIONAL LANDSCAPE MATERIAL LEGEND

SYMBOL	DESCRIPTION	QTY.
	ROCK MULCH - 3/4" SCREENED; COLOR: TBD	228,476 SF
	DESERT COBBLE WITH NATIVE SEED MIX*	227,431 SF
	1"-3" DESERT COBBLE, 100% COVERAGE	6,513 SF
	2' DECORATIVE BOULDER; COLOR: TBD	424
	3' DECORATIVE BOULDER; COLOR: TBD	47

*REFER TO NATIVE SEED MIX BELOW

NATIVE SEED MIX - (CLASS II)

SYMBOL

BOTANICAL NAME / COMMON NAME	PLS LBS/AC
SUB-SHRUBS (4 SPECIES/4.0 PLS MIN.)	
AMBROSIA DELTOIDEA TRIANGLE-LEAF BURSAGE	0.5
ENCELIA FARINOSA BRITTLEBUSH	0.5
MENODORA SCABRA ROUGH MENODORA	1.0
ZINNIA ACEROSA DESERT ZINNIA	2.0
PERENNIAL GRASSES (10 SPECIES/6.0 PLS MIN.)	
ARISTIDA PURPUREA PURPLE THREE-AWN	0.5
BOUTELOUA CURTIPENDULA SIDE OATS GRAMA	1.0
DASYOCHLOA PULCHELLA FLUFFGRASS	0.5
DIGITARIA CALIFORNICA ARIZONA COTTONTOP	1.0
HILARIA MUTICA TOBOSA	0.5
PAPPOPHORUM VAGINATUM WHIPLASH PAPPUSGRASS	1.0
SETARIA LEUCOPILA PLAINS BRISTLEGRASS	0.5
SPOROBOLUS AIROIDES ALKALI SACATON	0.25
SPOROBOLUS CRYPTANDRUS SAND DROPSEED	0.25
TRIDENS MUTICUS SLIM TRIDENS	0.5

BOTANICAL NAME / COMMON NAME	PLS LBS/AC
PERENNIAL FORBES (4 SPECIES/3.5 PLS MIN.)	
BAHIA ABSINTHIFOLIA DESERT BAHIA	0.5
GLANDULARIA GOODDINGII GOODDING'S VERBENA	1.5
SPHAERALCEA AMBIGUA GLOBEMALLLOW	1.0
THYMOPHYLLA PENTACHAETA DYSSODIA	0.5
ANNUAL GRASSES (3 SPECIES/1.5 PLS MIN.)	
BOUTELOUA BARBATA SIX WEEKS GRAMA	0.5
BOUTELOUA ROTHROCKII ROTHROCK GRAMA	0.5
VULPIA OCTOFLORA SIXWEEKS FESCUE	0.5
ANNUAL FORBES (6 SPECIES/5.0 PLS MIN.)	
ESCHSCHOLZIA MEXICANA DESERT POPPY	1.0
KALLSTROEMIA GRANDIFLORA ARIZONA POPPY	1.0
LESQUERELLA GORDONII BLADDERPOD	0.5
LUPINUS SPARSIFLORUS LUPINE	1.0
PENSTEMON PARRYI PARRY'S PENSTEMON	1.0
PLANTAGO OVATA INDIAN WHEAT	0.5

TOTAL:	20

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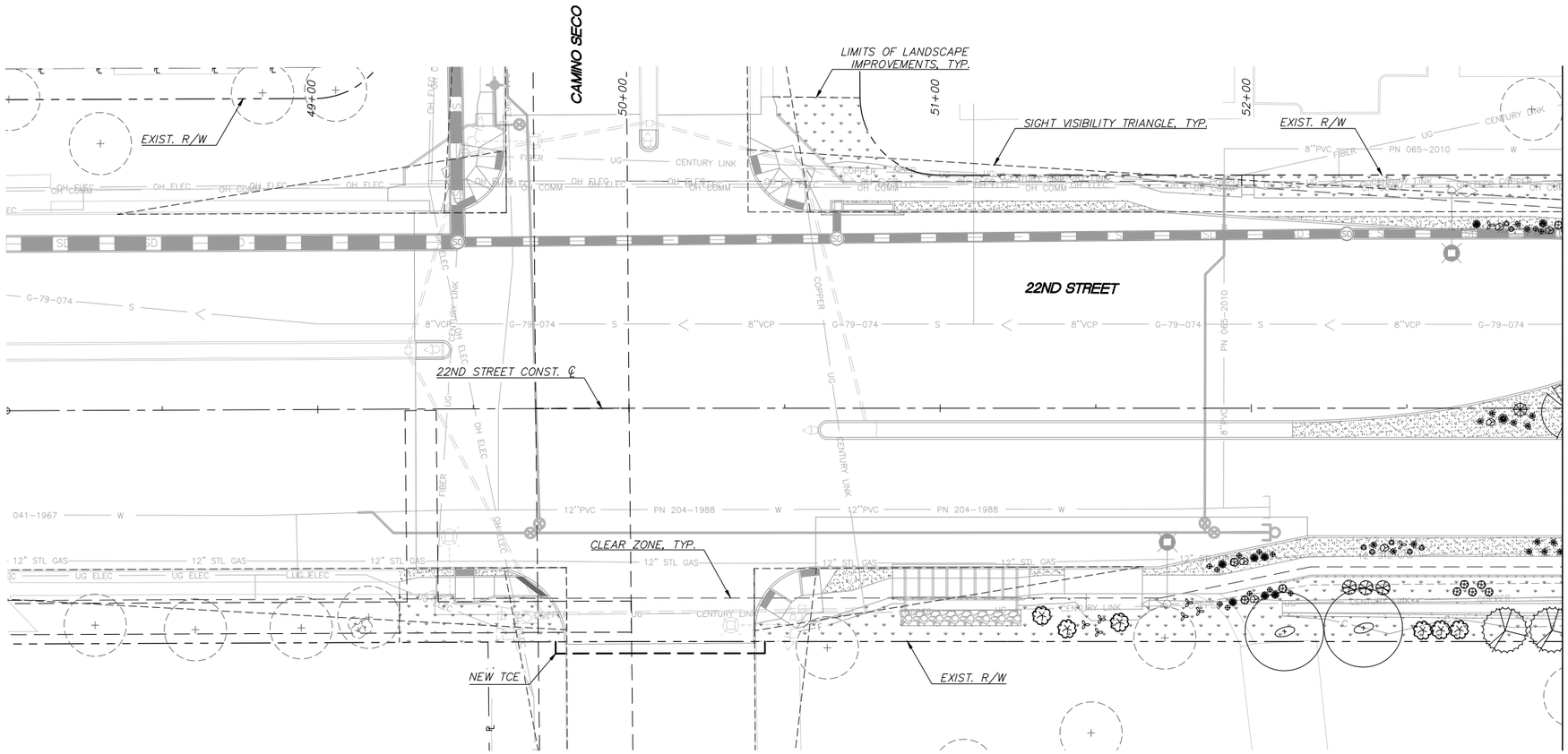
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE GENERAL NOTES - 22ND STREET

CITY OF TUCSON

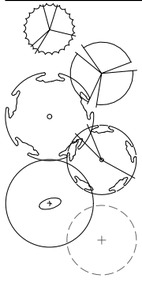
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O. GILLIAM AUG 20 25	J. SENNE AUG 20 25	R. FIELD AUG 20 25	H: N/A V: N/A PLAN NO. I-2025-004



0 20' 40'
SCALE: 1"=20'

LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
	CHILOPSIS LINEARIS DESERT WILLOW
	PARKINSONIA FLORIDA BLUE PALO VERDE
	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE
	PROSOPIS VELUTINA VELVET MESQUITE
	EXISTING TREE TO REMAIN

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
	ASCLEPIAS SUBULATA DESERT MILKWEED
	BAILEYA MULTIRADIATA DESERT MARIGOLD
	CALLIANDRA ERIOPHYLLA PINK FAIRY DUSTER
	CELTIS PALLIDA DESERT HACKBERRY
	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA
	ENCELIA FARINOSA BRITTLEBUSH
	LARREA TRIDENTATA CREOSOTE

SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
	LYCIUM FREMONTII WOLFBERRY
	MELAMPODIUM LEUCANTHUM BLACKFOOT DAISY
	SIMMONDSIA CHINENSIS JOJOBA
	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW
	ZIZIPHUS OBTUSIFOLIA VAR. CANESCENS GREYTHORN

ACCENTS / CACTI

SYMBOL	BOTANICAL NAME COMMON NAME
	CARNEGIEA GIGANTEA SAGUARO
	DASYLIRION WHEELERI DESERT SPOON
	FEROCACTUS WISLIZENII FISHHOOK BARREL
	FOUQUIERIA SPLENDENS COACHWHIP OCOTILLO
	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED YUCCA
	NOLINA MICROCARPA BEARGRASS
	OPUNTIA BASILARIS BEAVERTAIL CACTUS
	YUCCA ELATA SOAPTREE YUCCA
	YUCCA PALLIDA PALE-LEAF YUCCA
	EXISTING SHRUB/ACCENT TO REMAIN

OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
	ROCK MULCH – 3/4" SCREENED; COLOR: TBD
	DESERT COBBLE WITH NATIVE SEED MIX*
	1"–3" DESERT COBBLE, 100% COVERAGE
	2' DECORATIVE BOULDER; COLOR: TBD
	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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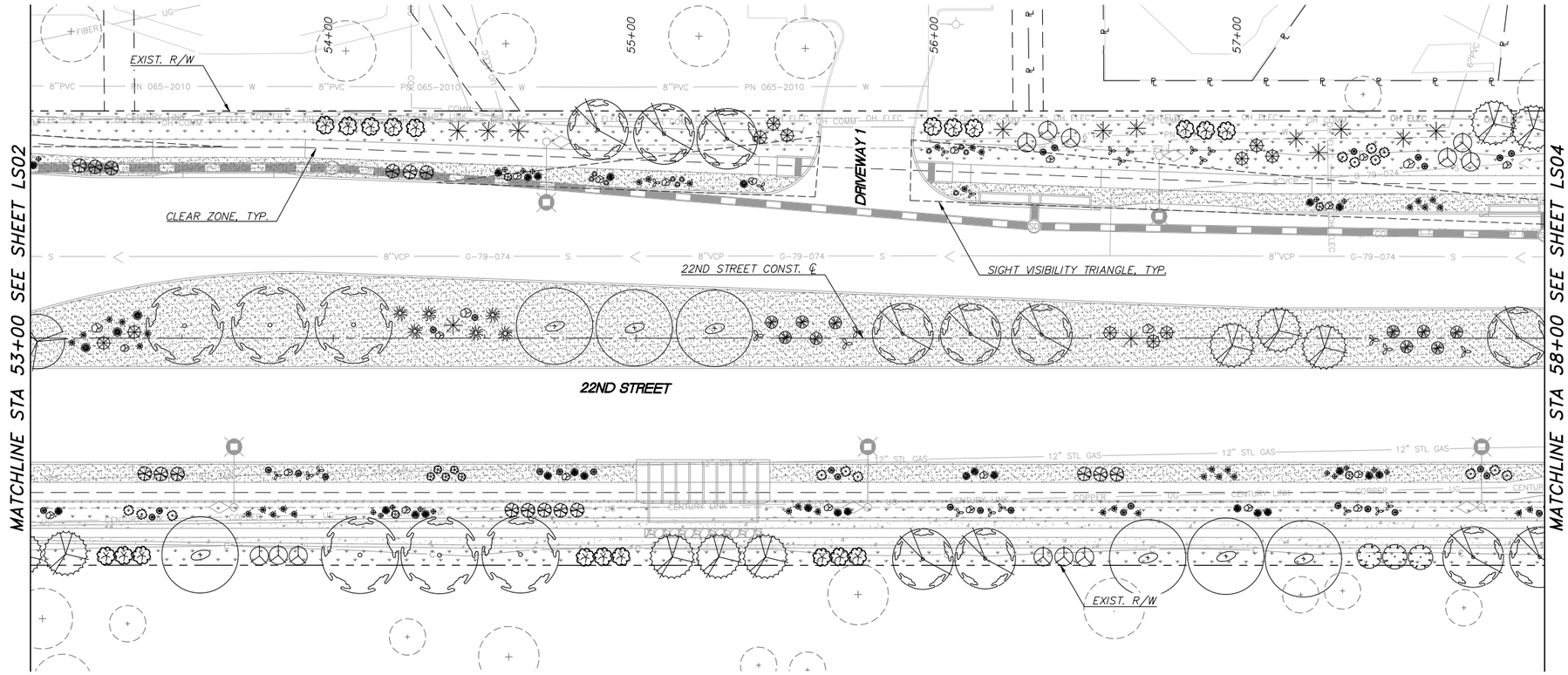
22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

LS02 OF LS24
208 OF 316

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LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
	CHILOPSIS LINEARIS DESERT WILLOW
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	PROSOPIS VELUTINA VELVET MESQUITE
	EXISTING TREE TO REMAIN

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
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	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA
	ENCELIA FARINOSA BRITTLEBUSH
	LARREA TRIDENTATA CREOSOTE

SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
	LYCIUM FREMONTII WOLFBERRY
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ACCENTS / CACTI

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	NOLINA MICROCARPA BEARGRASS
	OPUNTIA BASILARIS BEAVERTAIL CACTUS
	YUCCA ELATA SOAPTREE YUCCA
	YUCCA PALLIDA PALE-LEAF YUCCA
	EXISTING SHRUB/ACCENT TO REMAIN

OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
	ROCK MULCH – 3/4" SCREENED; COLOR: TBD
	DESERT COBBLE WITH NATIVE SEED MIX*
	1"–3" DESERT COBBLE, 100% COVERAGE
	2' DECORATIVE BOULDER; COLOR: TBD
	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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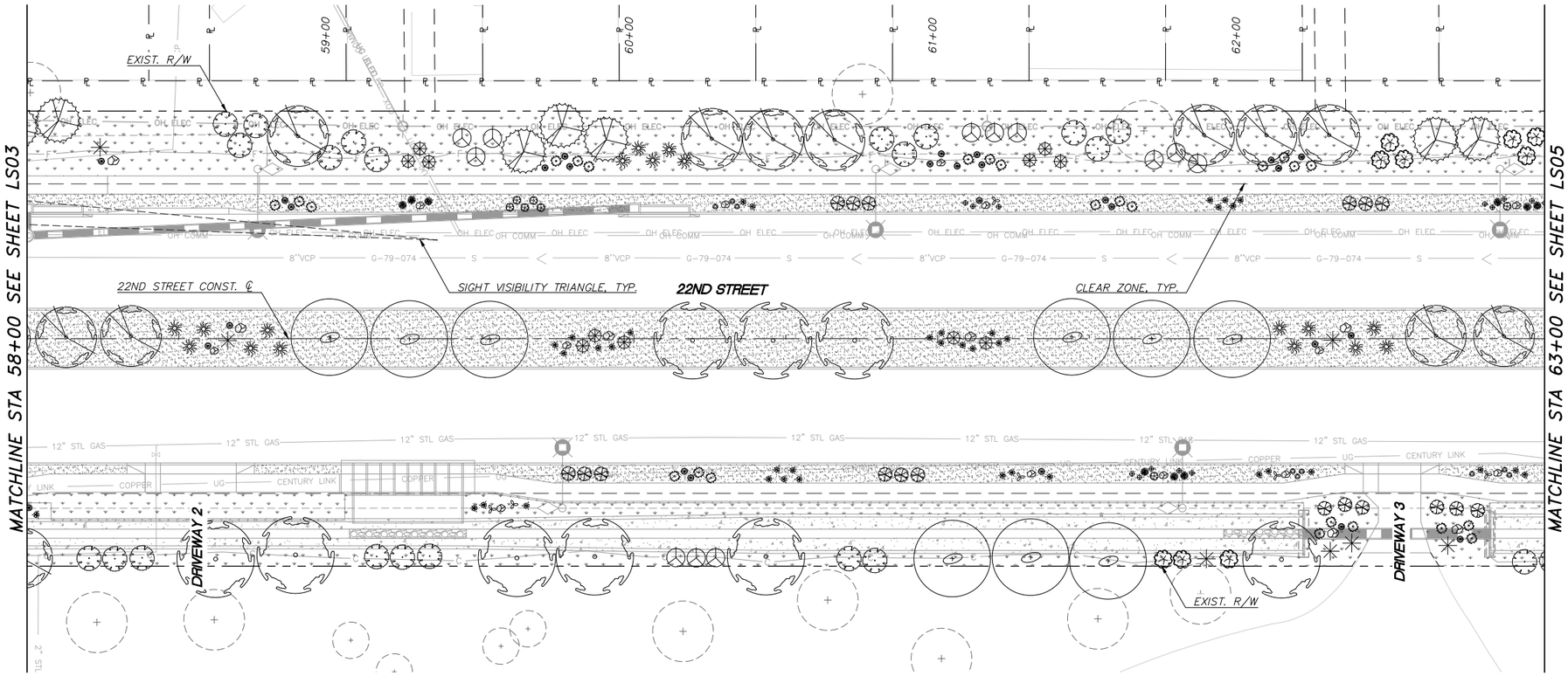
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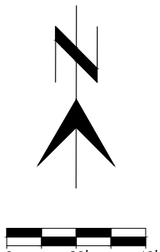
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

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LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
	CHILOPSIS LINEARIS DESERT WILLOW
	PARKINSONIA FLORIDA BLUE PALO VERDE
	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE
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	EXISTING TREE TO REMAIN

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
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	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA
	ENCELIA FARINOSA BRITTLEBUSH
	LARREA TRIDENTATA CREOSOTE

SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
	LYCIUM FREMONTII WOLFBERRY
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	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW
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ACCENTS / CACTI

SYMBOL	BOTANICAL NAME COMMON NAME
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	OPUNTIA BASILARIS BEAVERTAIL CACTUS
	YUCCA ELATA SOAPTREE YUCCA
	YUCCA PALLIDA PALE-LEAF YUCCA
	EXISTING SHRUB/ACCENT TO REMAIN

OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
	ROCK MULCH – 3/4" SCREENED; COLOR: TBD
	DESERT COBBLE WITH NATIVE SEED MIX*
	1"–3" DESERT COBBLE, 100% COVERAGE
	2' DECORATIVE BOULDER; COLOR: TBD
	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

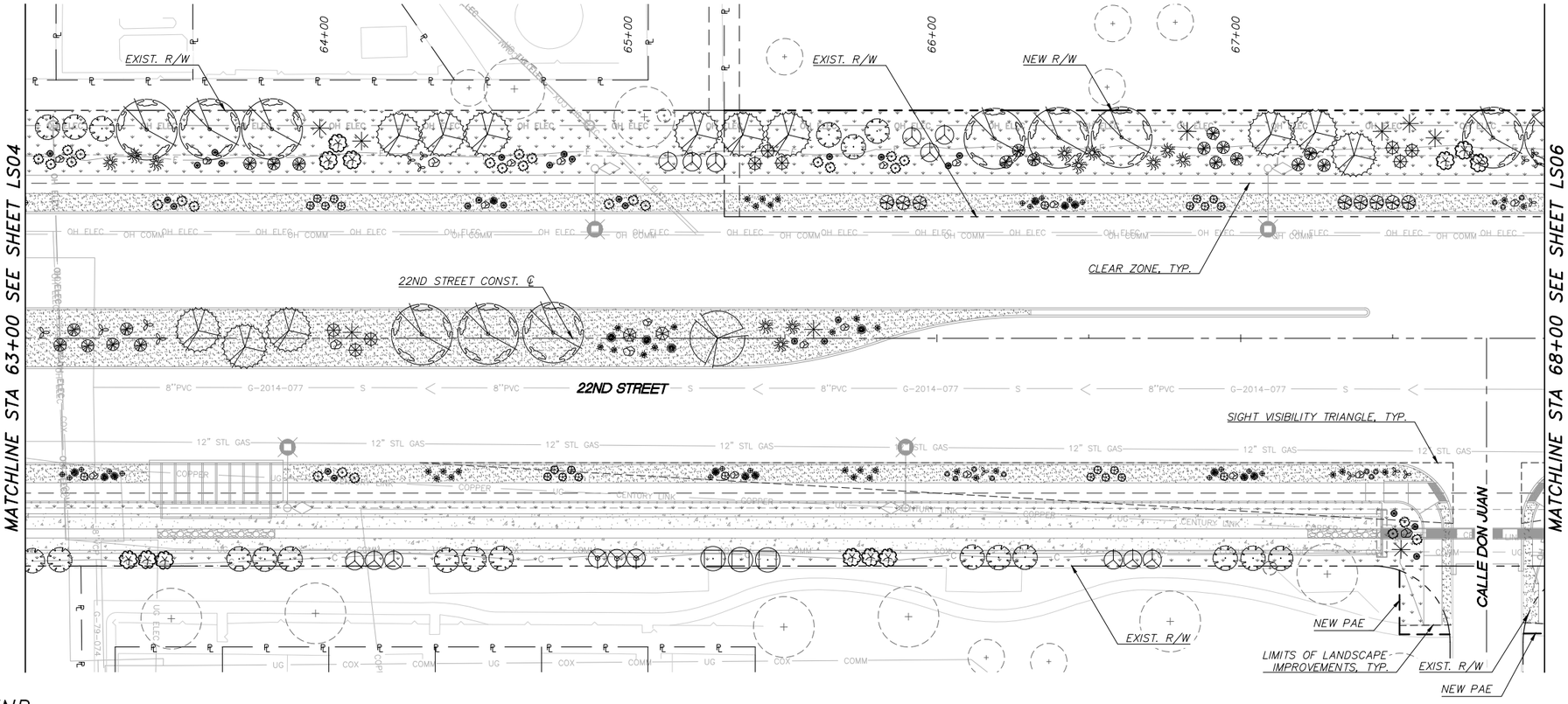
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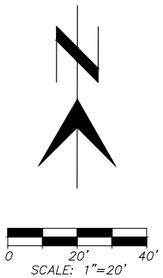
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PLAN NO. I-2025-004

LS04 OF LS24

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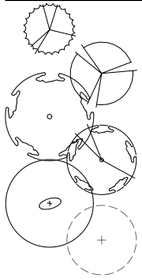
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LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
	CHILOPSIS LINEARIS DESERT WILLOW
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	EXISTING TREE TO REMAIN

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
	ASCLEPIAS SUBULATA DESERT MILKWEED
	BAILEYA MULTIRADIATA DESERT MARIGOLD
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	CELTIS PALLIDA DESERT HACKBERRY
	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA
	ENCELIA FARINOSA BRITTLEBUSH
	LARREA TRIDENTATA CREOSOTE

SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
	LYCIUM FREMONTII WOLFBERRY
	MELAMPODIUM LEUCANTHUM BLACKFOOT DAISY
	SIMMONDSIA CHINENSIS JOJOBA
	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW
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	OPUNTIA BASILARIS BEAVERTAIL CACTUS
	YUCCA ELATA SOAPTREE YUCCA
	YUCCA PALLIDA PALE-LEAF YUCCA
	EXISTING SHRUB/ACCENT TO REMAIN

OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
	ROCK MULCH – 3/4" SCREENED; COLOR: TBD
	DESERT COBBLE WITH NATIVE SEED MIX*
	1"–3" DESERT COBBLE, 100% COVERAGE
	2' DECORATIVE BOULDER; COLOR: TBD
	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

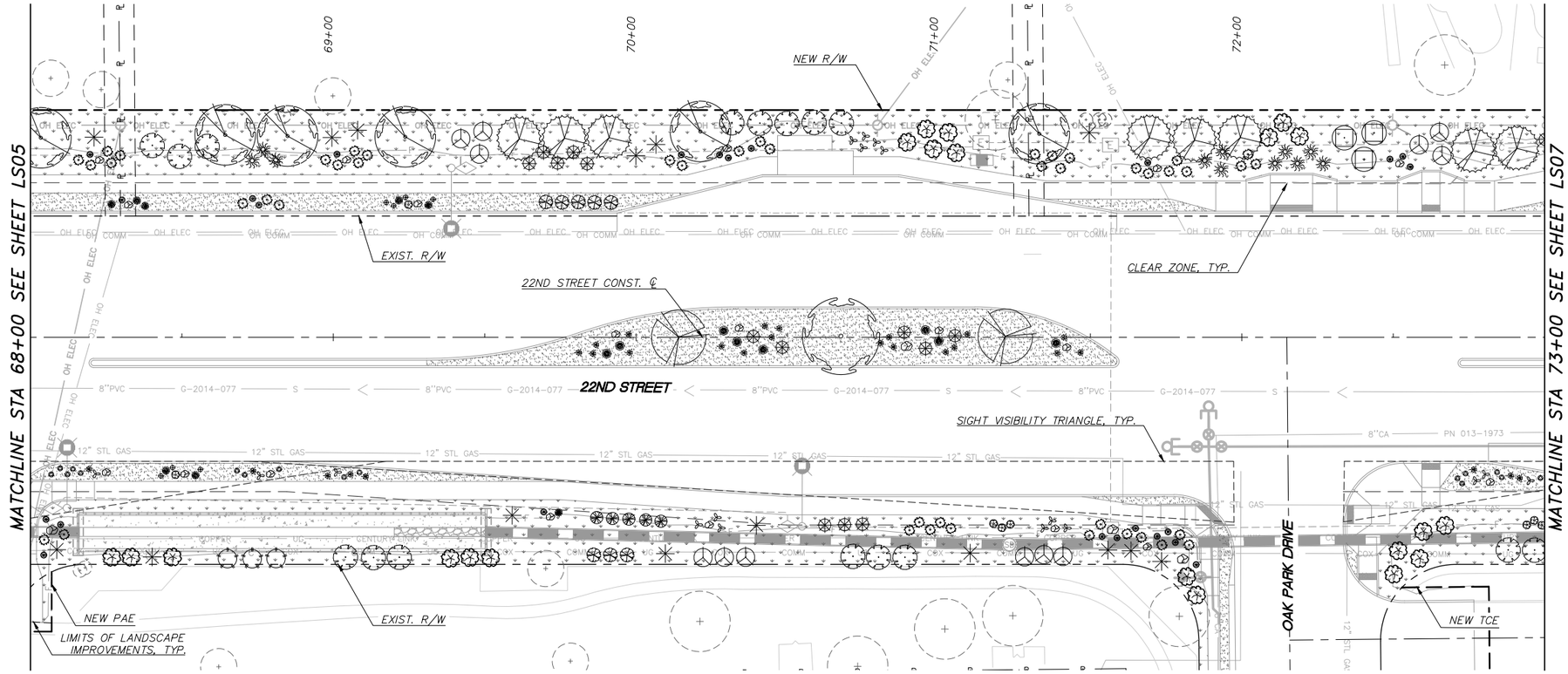
CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

LS05 OF LS24

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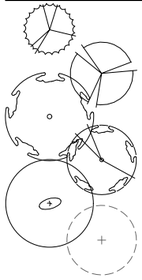
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0 20' 40'
SCALE: 1"=20'

LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
	CHILOPSIS LINEARIS DESERT WILLOW
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SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
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	MELAMPODIUM LEUCANTHUM BLACKFOOT DAISY
	SIMMONDSIA CHINENSIS JOJOBA
	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW
	ZIZIPHUS OBTUSIFOLIA VAR. CANESCENS GREYTHORN

ACCENTS / CACTI

SYMBOL	BOTANICAL NAME COMMON NAME
	CARNEGIEA GIGANTEA SAGUARO
	DASYLIRION WHEELERI DESERT SPOON
	FEROCACTUS WISLIZENII FISHHOOK BARREL
	FOUQUIERIA SPLENDENS COACHWHIP OCOTILLO
	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED YUCCA
	NOLINA MICROCARPA BEARGRASS
	OPUNTIA BASILARIS BEAVERTAIL CACTUS
	YUCCA ELATA SOAPTREE YUCCA
	YUCCA PALLIDA PALE-LEAF YUCCA
	EXISTING SHRUB/ACCENT TO REMAIN

OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
	ROCK MULCH – 3/4" SCREENED; COLOR: TBD
	DESERT COBBLE WITH NATIVE SEED MIX*
	1"–3" DESERT COBBLE, 100% COVERAGE
	2' DECORATIVE BOULDER; COLOR: TBD
	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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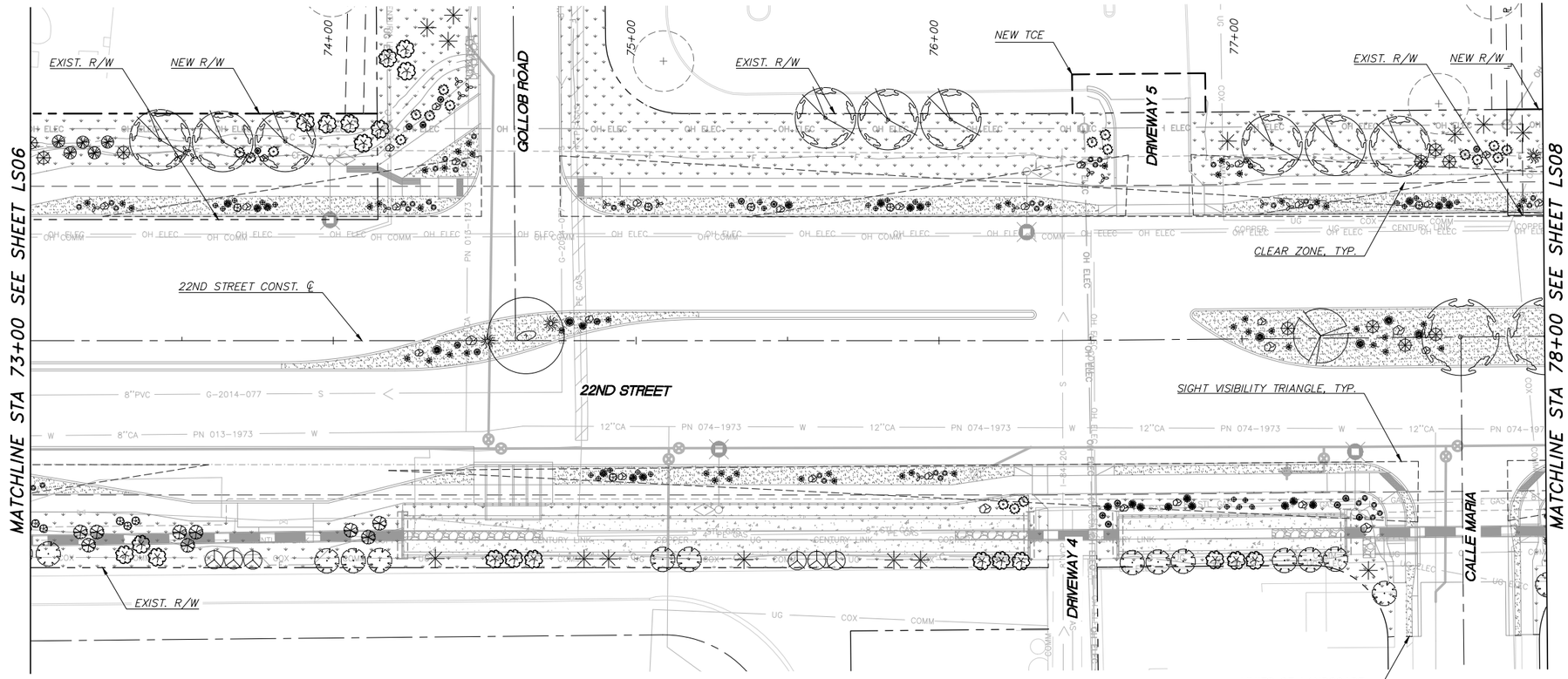
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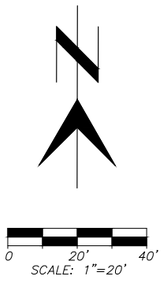
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

CITY OF TUCSON

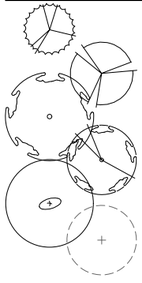
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CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004





LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
	CHILOPSIS LINEARIS DESERT WILLOW
	PARKINSONIA FLORIDA BLUE PALO VERDE
	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE
	PROSOPIS VELUTINA VELVET MESQUITE
	EXISTING TREE TO REMAIN

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
	ASCLEPIAS SUBULATA DESERT MILKWEED
	BAILEYA MULTIRADIATA DESERT MARIGOLD
	CALLIANDRA ERIOPHYLLA PINK FAIRY DUSTER
	CELTIS PALLIDA DESERT HACKBERRY
	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA
	ENCELIA FARINOSA BRITTLEBUSH
	LARREA TRIDENTATA CREOSOTE

SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
	LYCIUM FREMONTII WOLFBERRY
	MELAMPODIUM LEUCANTHUM BLACKFOOT DAISY
	SIMMONDSIA CHINENSIS JOJOBA
	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW
	ZIZIPHUS OBTUSIFOLIA VAR. CANESCENS GREYTHORN

ACCENTS / CACTI

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	DASYLIRION WHEELERI DESERT SPOON
	FEROCACTUS WISLIZENII FISHHOOK BARREL
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	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED YUCCA
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OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
	ROCK MULCH – 3/4" SCREENED; COLOR: TBD
	DESERT COBBLE WITH NATIVE SEED MIX*
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	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS - 22ND STREET

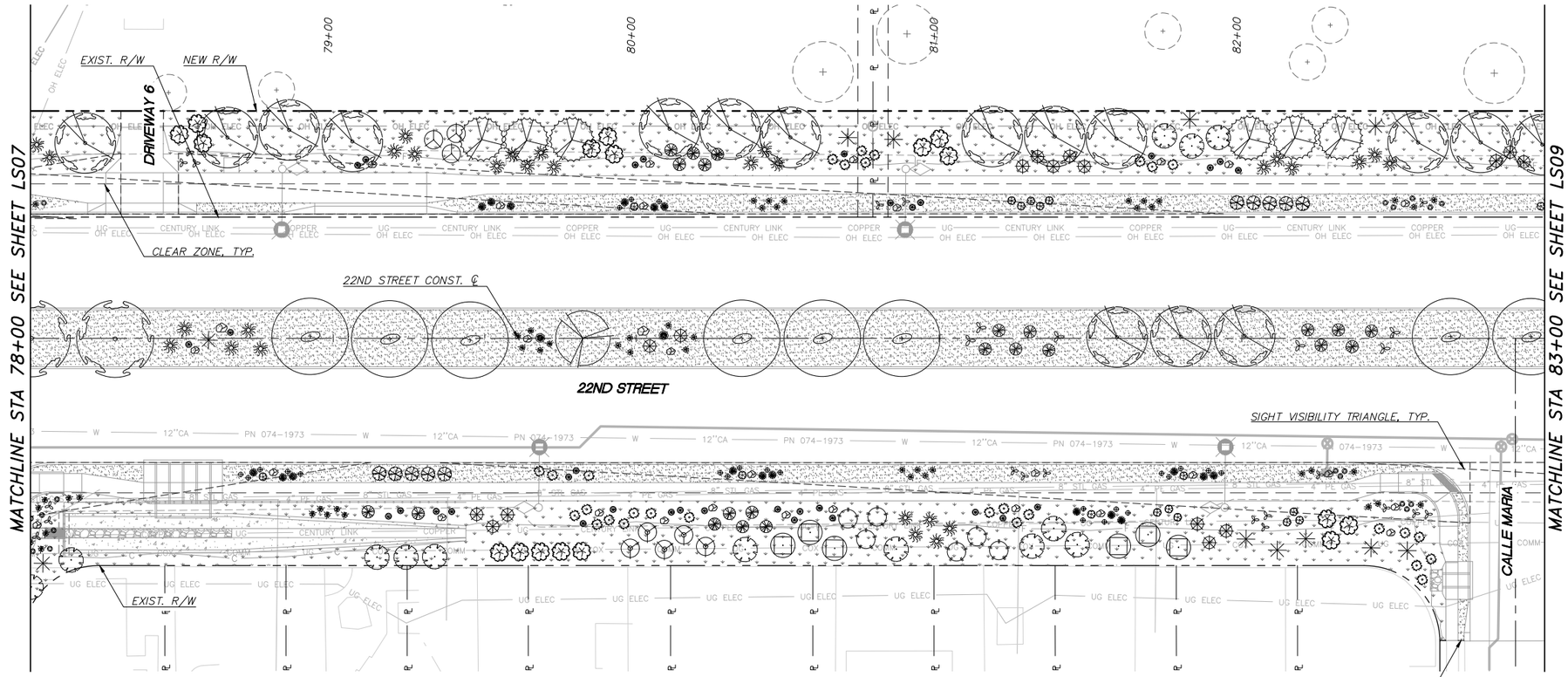
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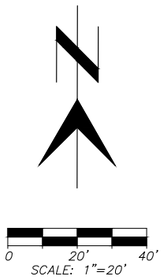
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PLAN NO. I-2025-004

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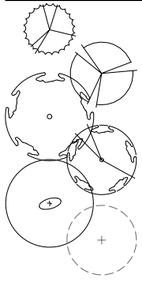
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LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
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	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE
	PROSOPIS VELUTINA VELVET MESQUITE
	EXISTING TREE TO REMAIN

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
	ASCLEPIAS SUBULATA DESERT MILKWEED
	BAILEYA MULTIRADIATA DESERT MARIGOLD
	CALLIANDRA ERIOPHYLLA PINK FAIRY DUSTER
	CELTIS PALLIDA DESERT HACKBERRY
	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA
	ENCELIA FARINOSA BRITTLEBUSH
	LARREA TRIDENTATA CREOSOTE

SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
	LYCIUM FREMONTII WOLFBERRY
	MELAMPODIUM LEUCANTHUM BLACKFOOT DAISY
	SIMMONDSIA CHINENSIS JOJOBA
	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW
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ACCENTS / CACTI

SYMBOL	BOTANICAL NAME COMMON NAME
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OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
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	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

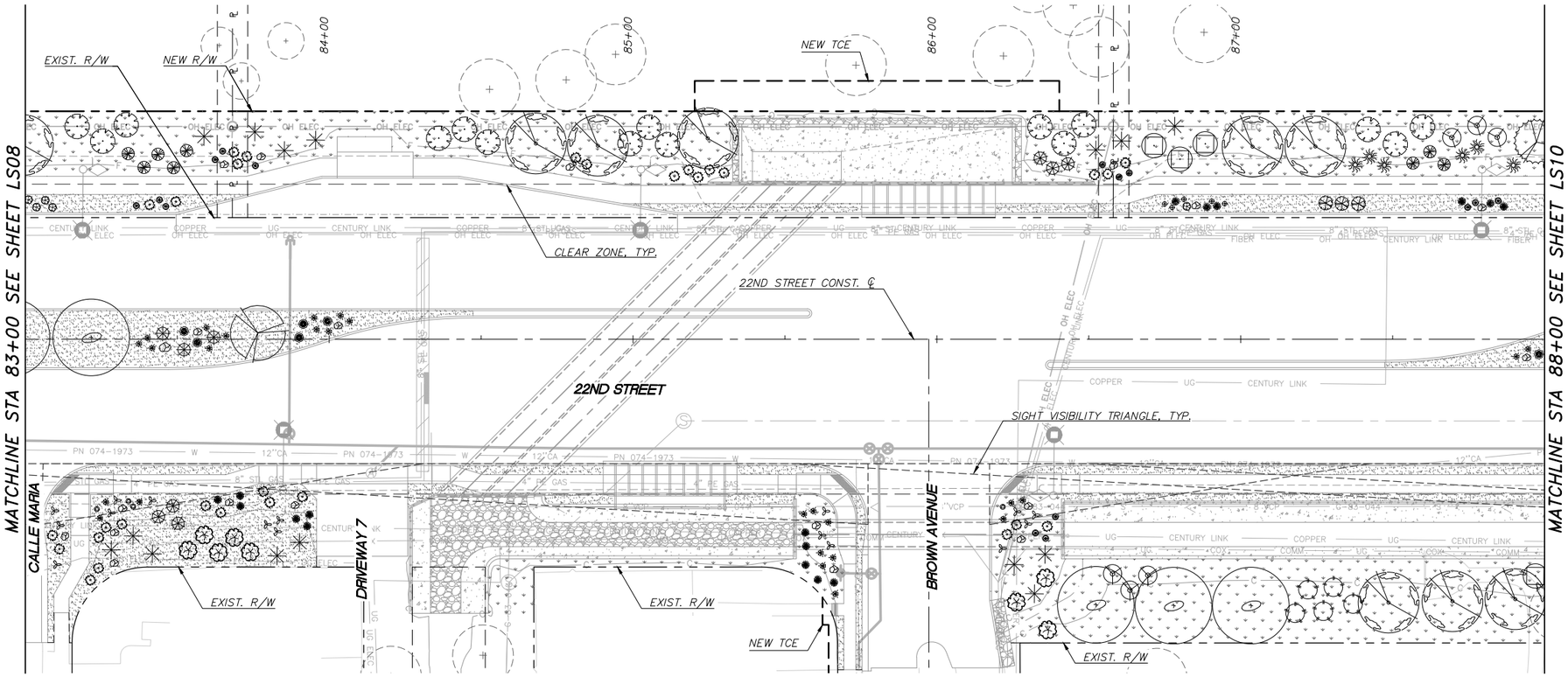
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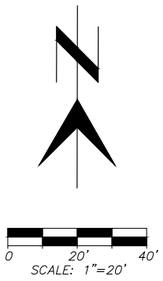
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PLAN NO. I-2025-004

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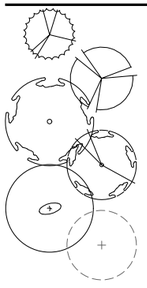
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LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
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SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
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SHRUBS / GROUNDCOVERS CONT.

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SYMBOL	DESCRIPTION
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*REFER TO LS01 FOR NATIVE SEED MIX

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22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

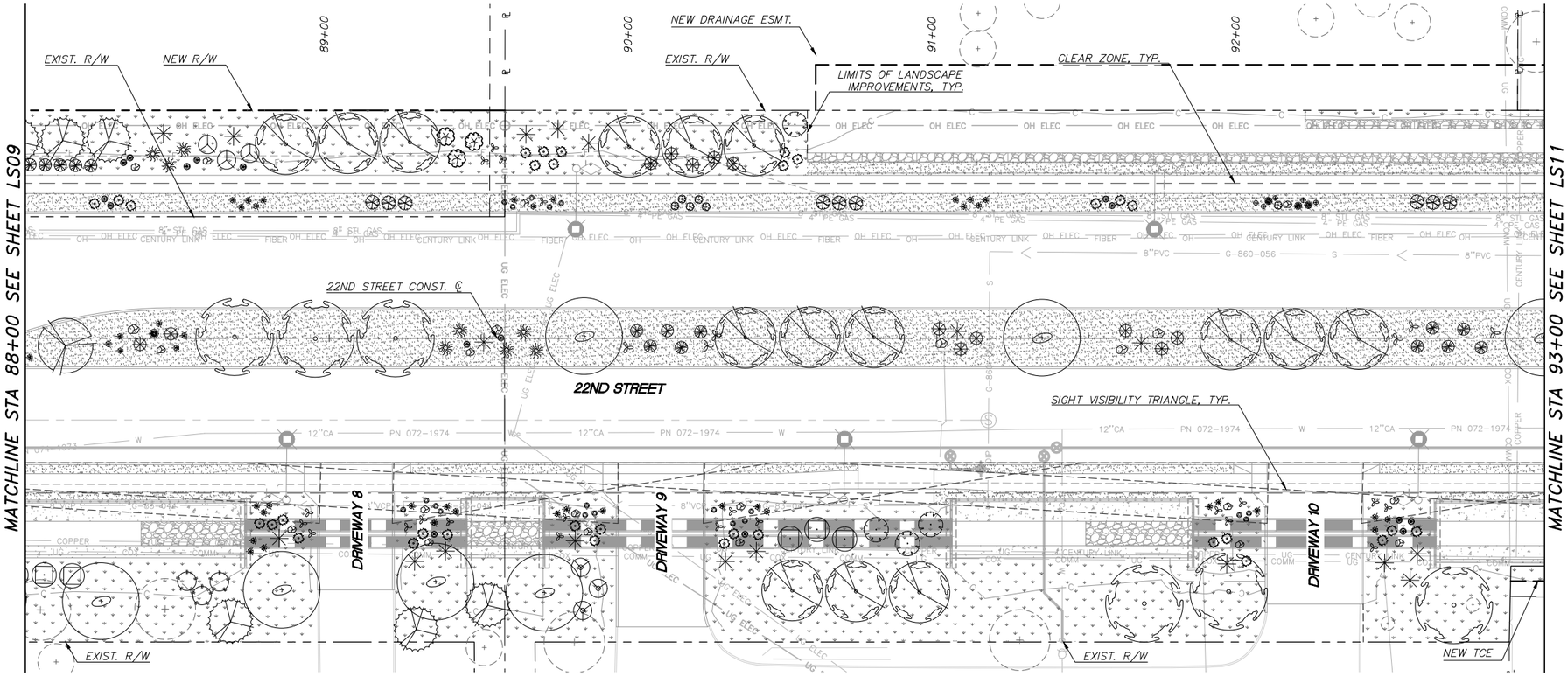
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CHKD. BY J. SENNE AUG 20 25
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PLAN NO. I-2025-004

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LANDSCAPE LEGEND

TREES

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SHRUBS / GROUNDCOVERS CONT.

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LANDSCAPE PLAN SHEETS – 22ND STREET

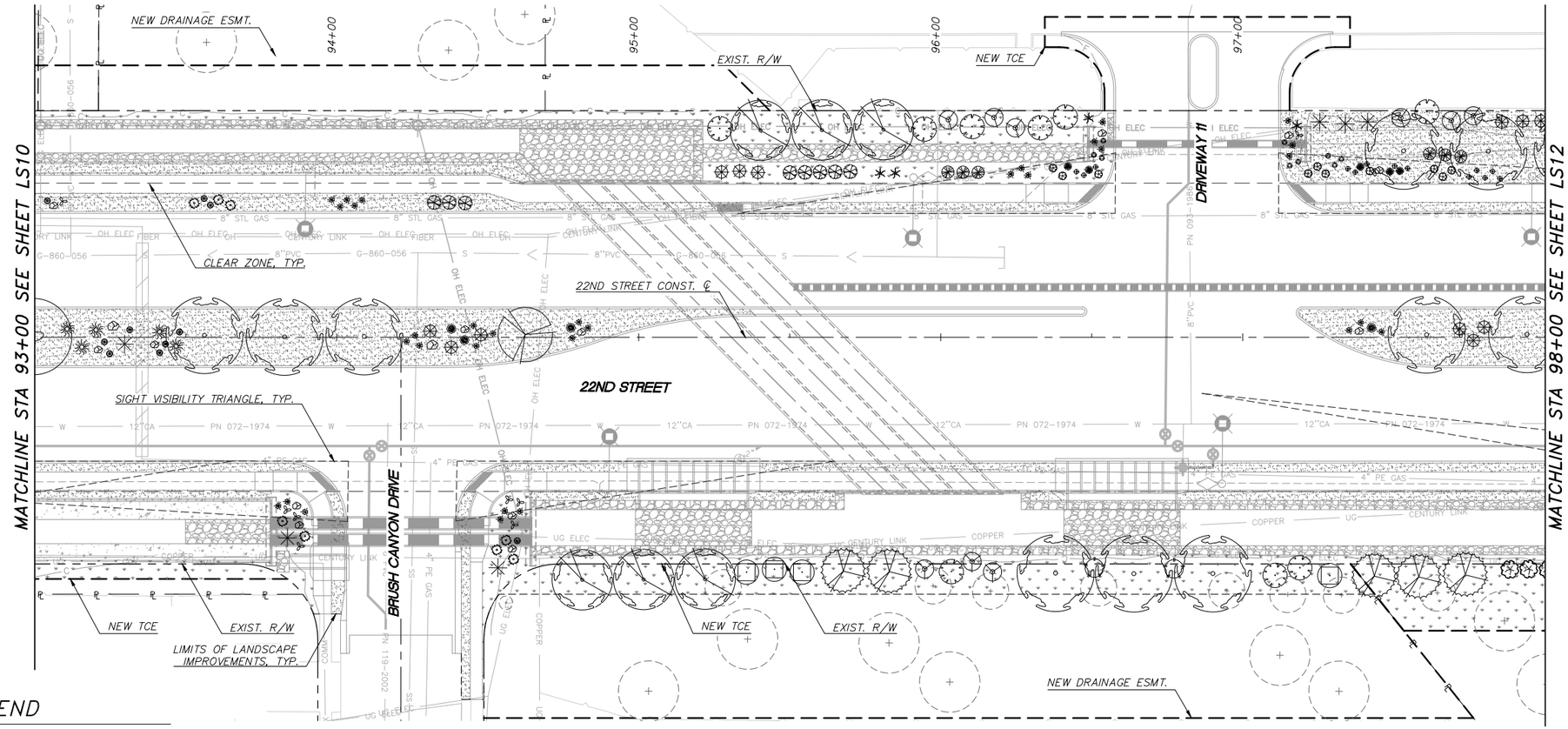
CITY OF TUCSON

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CHKD. BY J. SENNE AUG 20 25
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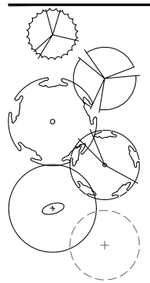
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LANDSCAPE LEGEND

TREES

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SHRUBS / GROUNDCOVERS CONT.

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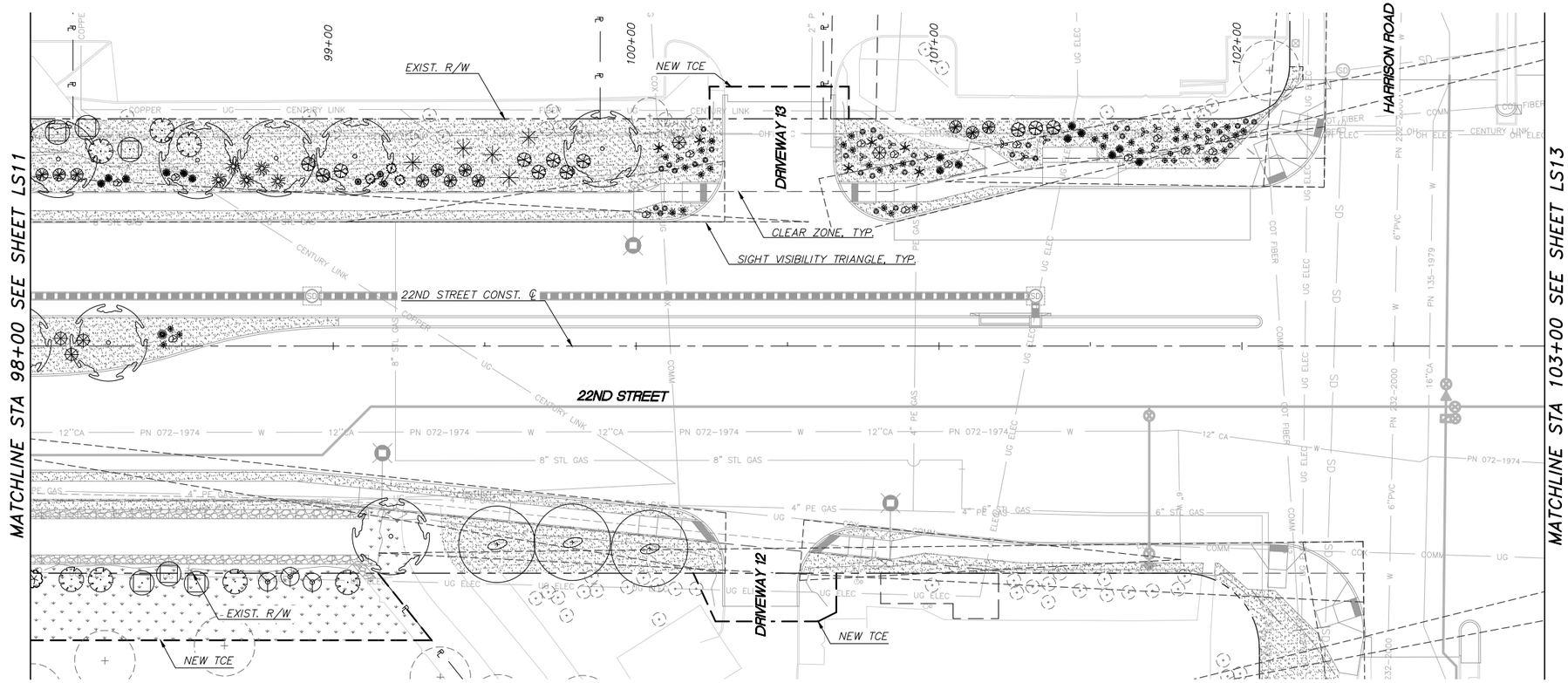
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LANDSCAPE LEGEND

TREES

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	PARKINSONIA FLORIDA BLUE PALO VERDE
	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE
	PROSOPIS VELUTINA VELVET MESQUITE
	EXISTING TREE TO REMAIN

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
	ASCLEPIAS SUBULATA DESERT MILKWEED
	BAILEYA MULTIRADIATA DESERT MARIGOLD
	CALLIANDRA ERIOPHYLLA PINK FAIRY DUSTER
	CELTIS PALLIDA DESERT HACKBERRY
	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA
	ENCELIA FARINOSA BRITTLEBUSH
	LARREA TRIDENTATA CREOSOTE

SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
	LYCIUM FREMONTII WOLFBERRY
	MELAMPODIUM LEUCANTHUM BLACKFOOT DAISY
	SIMMONDSIA CHINENSIS JOJOBA
	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW
	ZIZIPHUS OBTUSIFOLIA VAR. CANESCENS GREYTHORN

ACCENTS / CACTI

SYMBOL	BOTANICAL NAME COMMON NAME
	CARNEGIEA GIGANTEA SAGUARO
	DASYLIRION WHEELERI DESERT SPOON
	FEROCACTUS WISLIZENII FISHHOOK BARREL
	FOUQUIERIA SPLENDENS COACHWHIP OCOTILLO
	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED YUCCA
	NOLINA MICROCARPA BEARGRASS
	OPUNTIA BASILARIS BEAVERTAIL CACTUS
	YUCCA ELATA SOAPTREE YUCCA
	YUCCA PALLIDA PALE-LEAF YUCCA
	EXISTING SHRUB/ACCENT TO REMAIN

OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
	ROCK MULCH – 3/4" SCREENED; COLOR: TBD
	DESERT COBBLE WITH NATIVE SEED MIX*
	1"–3" DESERT COBBLE, 100% COVERAGE
	2' DECORATIVE BOULDER; COLOR: TBD
	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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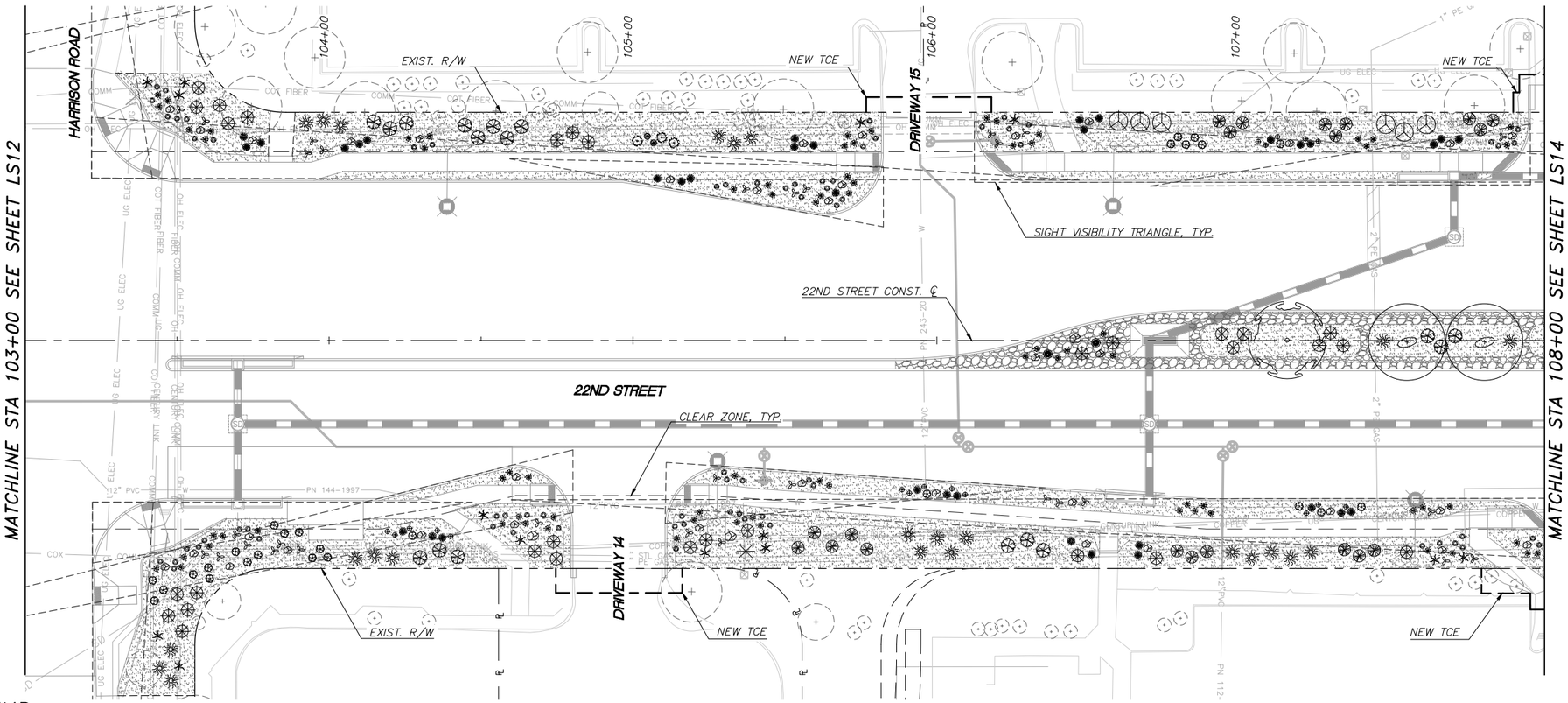
22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

LS12 OF LS24
218 OF 316

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LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
	CHILOPSIS LINEARIS DESERT WILLOW
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	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE
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SHRUBS / GROUNDCOVERS CONT.

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ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS - 22ND STREET

CITY OF TUCSON

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PLAN NO. I-2025-004

LS13 OF LS24

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SEE LANDSCAPE GENERAL NOTES SHEET FOR LEGEND

0 20' 40'
SCALE: 1"=20'

MATCHLINE STA 108+00 SEE SHEET LS13

MATCHLINE STA 113+00 SEE SHEET LS15

LIMITS OF LANDSCAPE IMPROVEMENTS, TYP.

NEW SLOPE ESMT.

NEW TCE

EXIST. R/W

DRIVEWAY 16

109+00

OLD SPANISH TRAIL

111+00

112+00

NEW R/W

EXIST. R/W

SIGHT VISIBILITY TRIANGLE, TYP.

22ND STREET CONST. ℄

22ND STREET

CLEAR ZONE, TYP.

DRIVEWAY 17

EXIST. R/W

NEW TCE

EXIST. SLOPE ESMT.

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CITY OF TUCSON

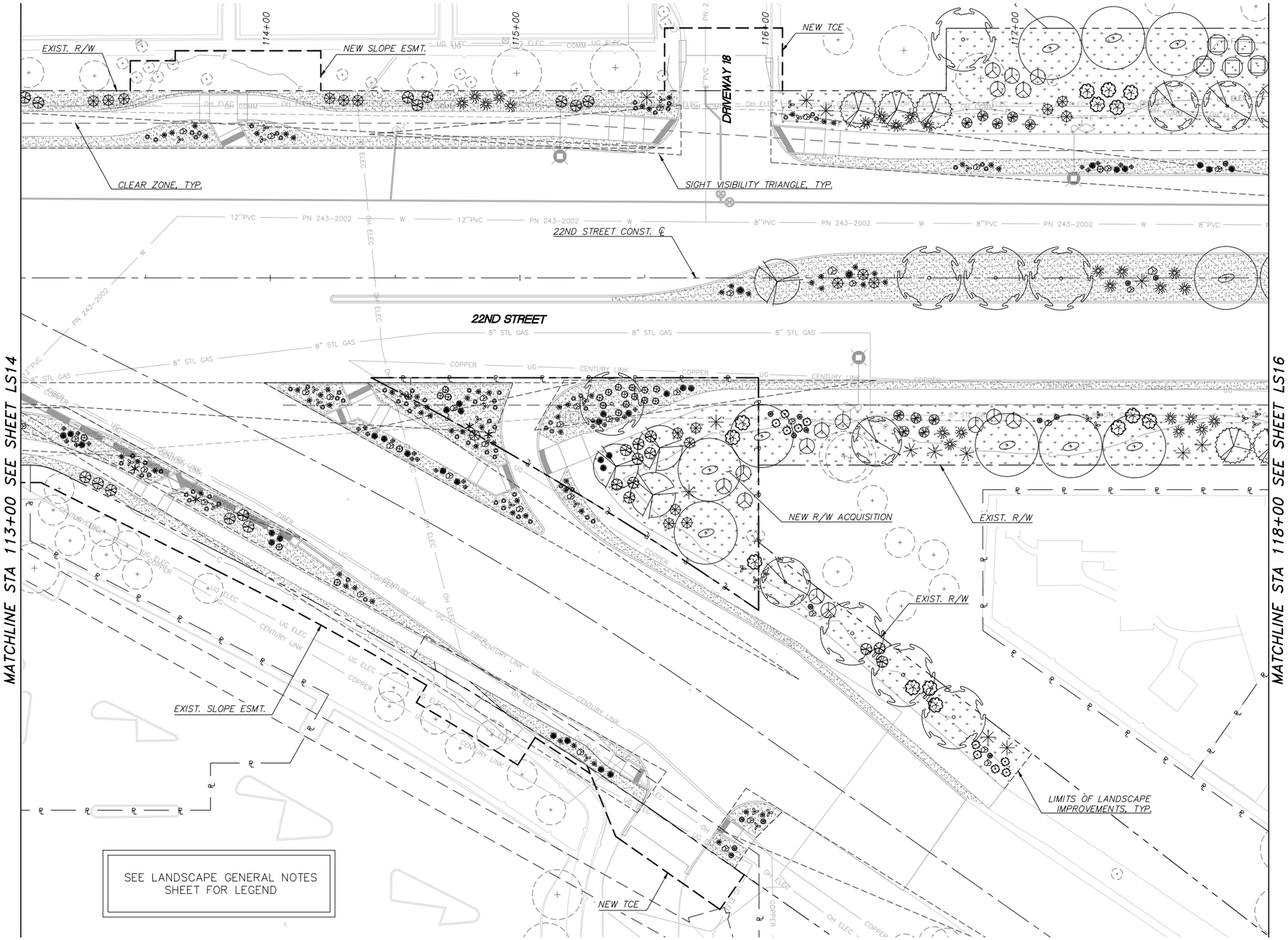
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LS14 OF LS24

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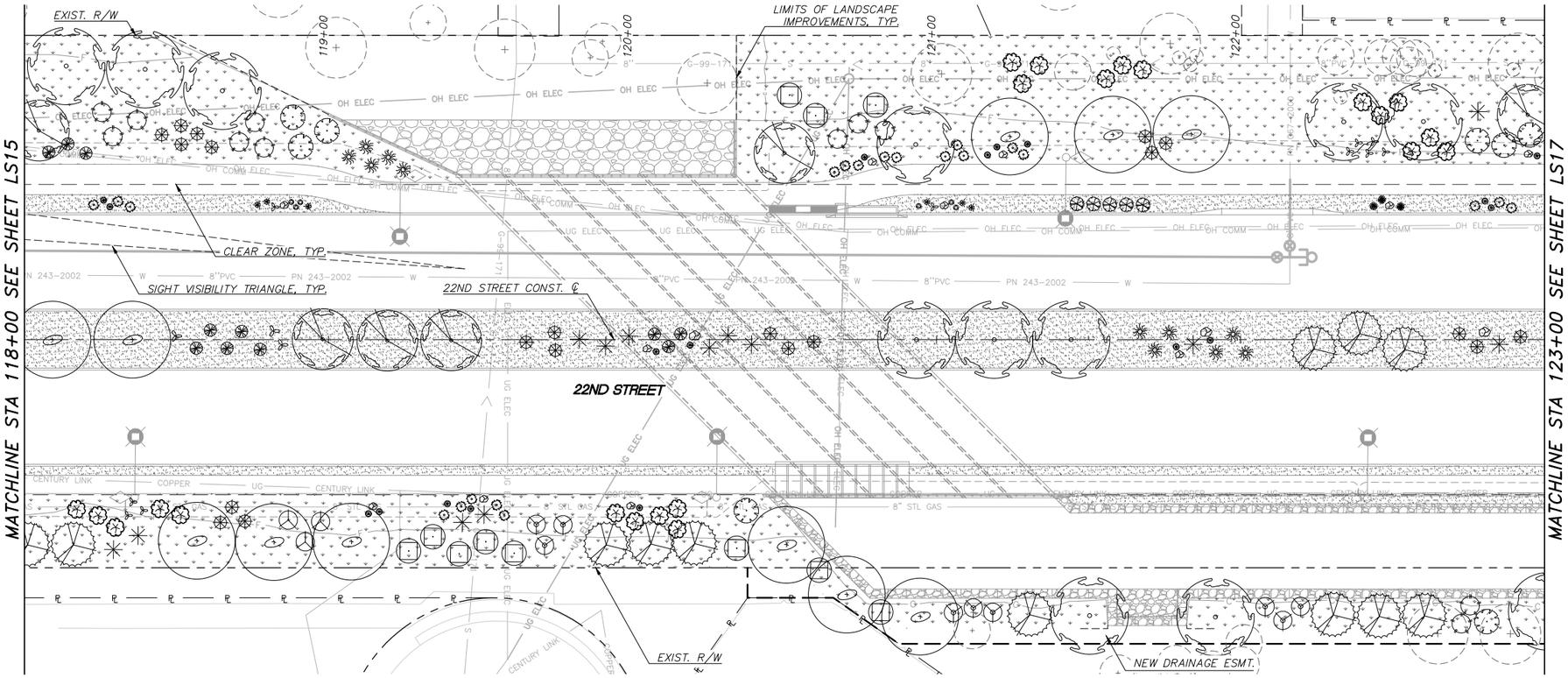
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PLAN NO. I-2025-004

LS15 OF LS24

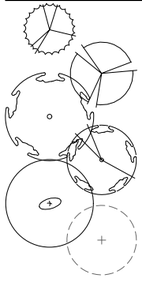
221 OF 316



0 20' 40'
SCALE: 1"=20'

LANDSCAPE LEGEND

TREES

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SHRUBS / GROUNDCOVERS CONT.

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ACCENTS / CACTI

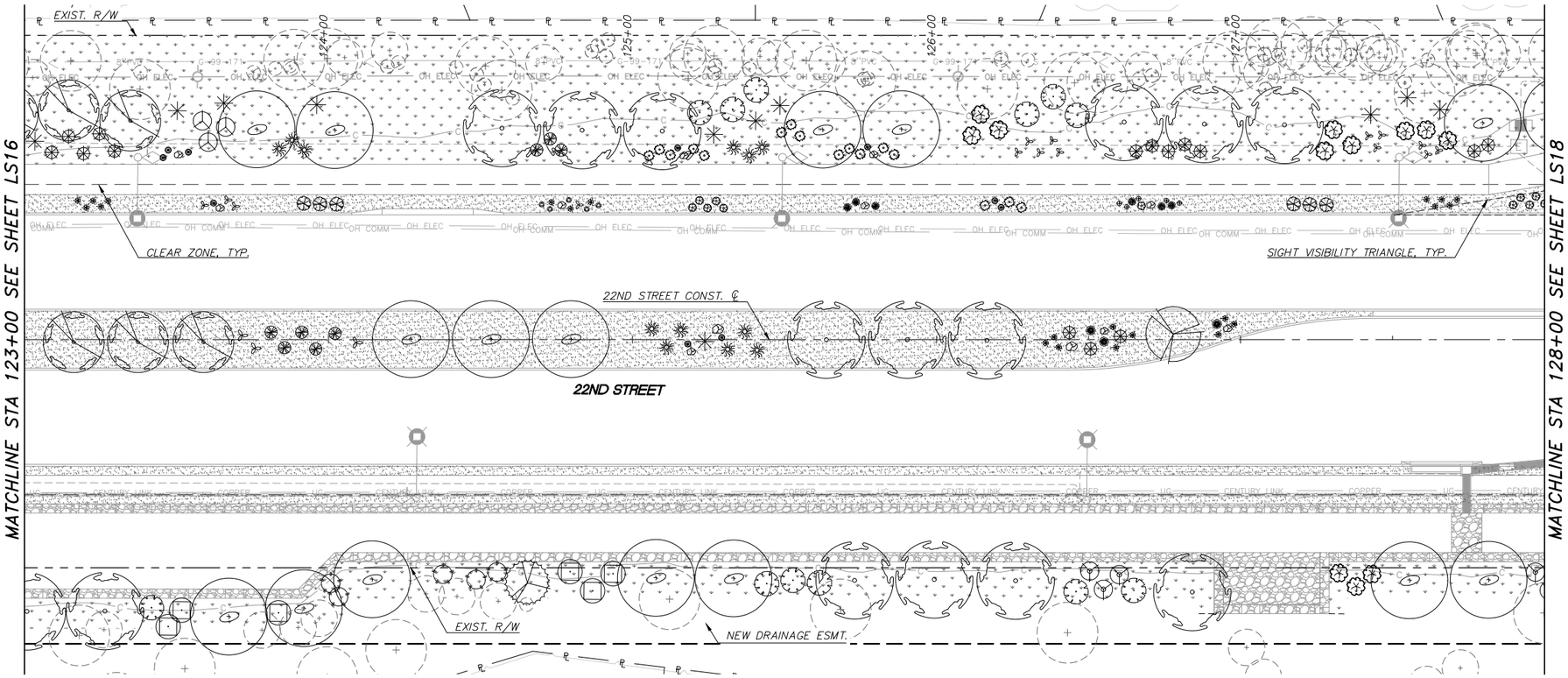
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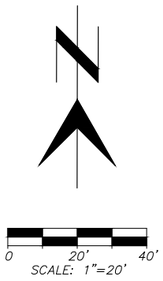
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*REFER TO LS01 FOR NATIVE SEED MIX

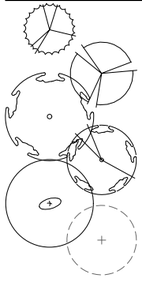
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LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
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SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
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OTHER LANDSCAPE MATERIAL

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*REFER TO LS01 FOR NATIVE SEED MIX

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22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS - 22ND STREET

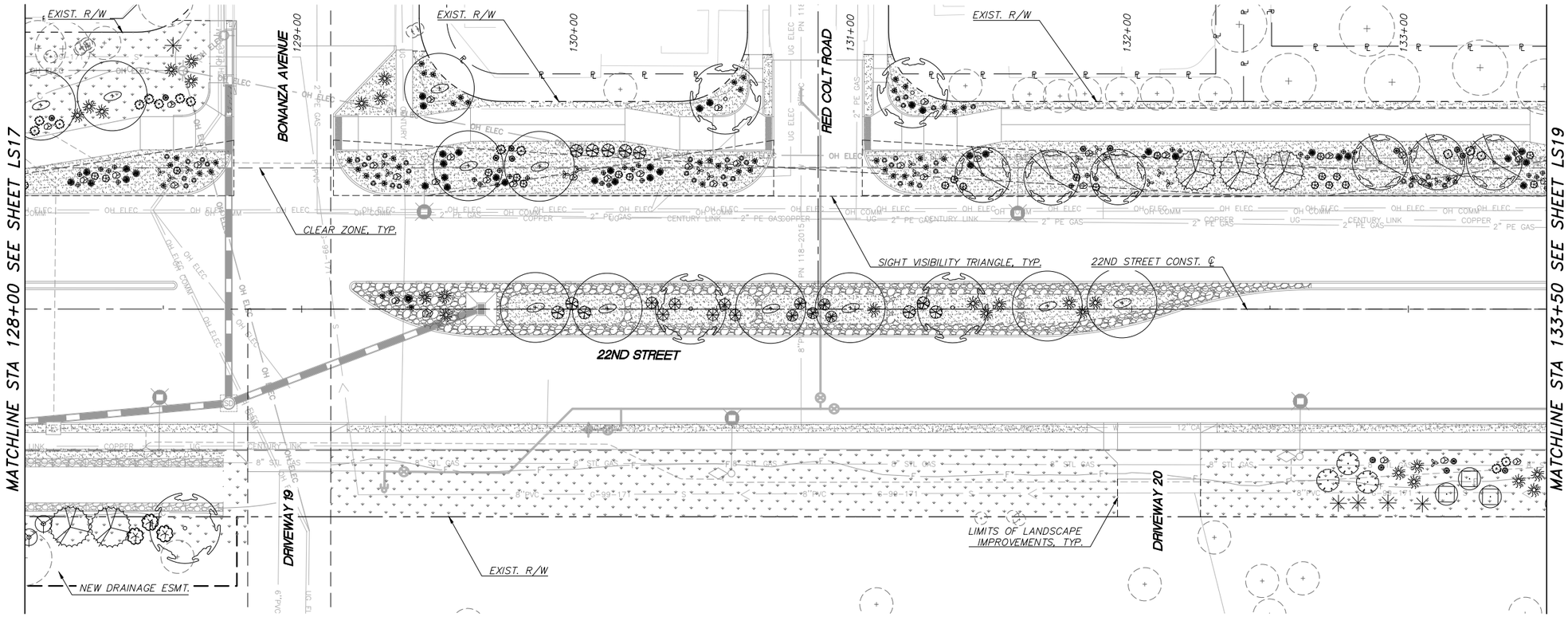
CITY OF TUCSON

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CHKD. BY J. SENNE AUG 20 25
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SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

LS17 OF LS24

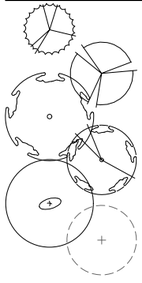
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LANDSCAPE LEGEND

TREES

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SHRUBS / GROUNDCOVERS CONT.

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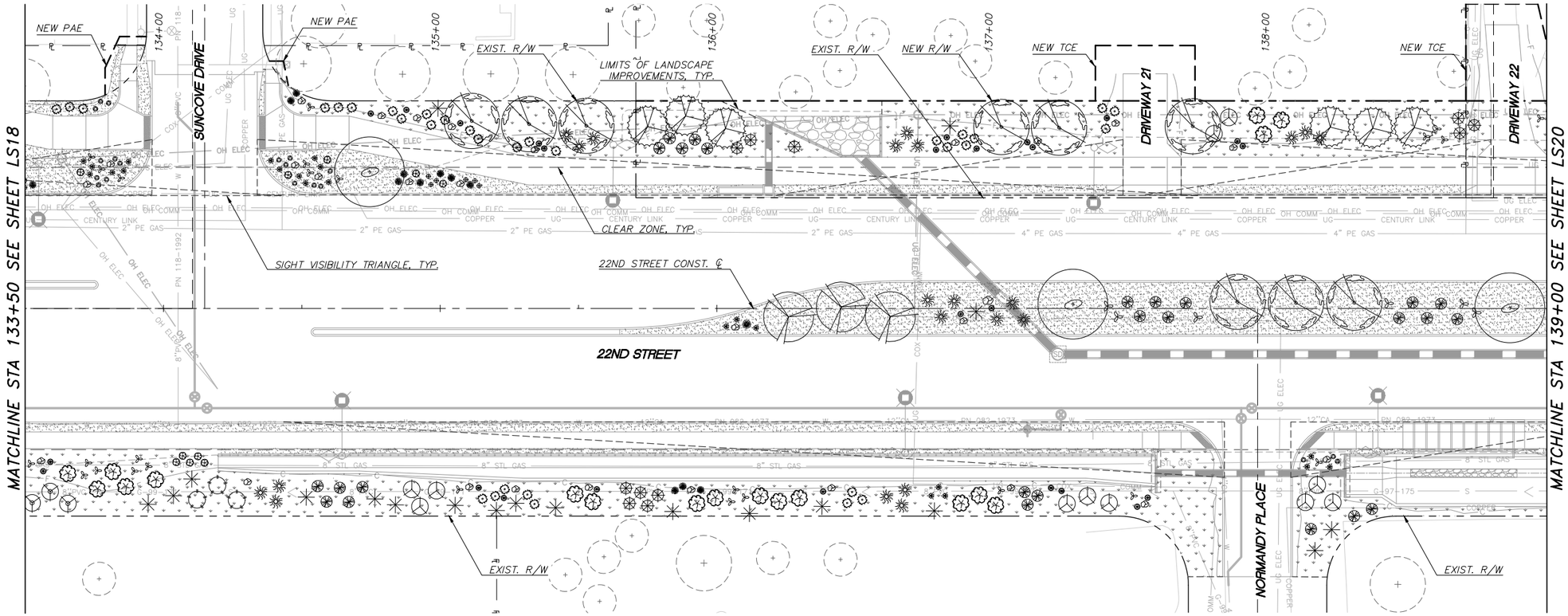
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LS18 OF LS24

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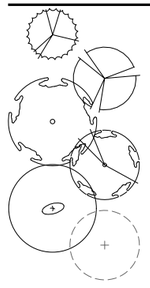
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0 20' 40'
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LANDSCAPE LEGEND

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ACCENTS / CACTI

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	CARNEGIEA GIGANTEA SAGUARO
	DASYLIRION WHEELERI DESERT SPOON
	FEROCACTUS WISLIZENII FISHHOOK BARREL
	FOUQUIERIA SPLENDENS COACHWHIP OCOTILLO
	HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS RED YUCCA
	NOLINA MICROCARPA BEARGRASS
	OPUNTIA BASILARIS BEAVERTAIL CACTUS
	YUCCA ELATA SOAPTREE YUCCA
	YUCCA PALLIDA PALE-LEAF YUCCA
	EXISTING SHRUB/ACCENT TO REMAIN

OTHER LANDSCAPE MATERIAL

SYMBOL	DESCRIPTION
	ROCK MULCH – 3/4" SCREENED; COLOR: TBD
	DESERT COBBLE WITH NATIVE SEED MIX*
	1"–3" DESERT COBBLE, 100% COVERAGE
	2' DECORATIVE BOULDER; COLOR: TBD
	3' DECORATIVE BOULDER; COLOR: TBD

*REFER TO LS01 FOR NATIVE SEED MIX

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

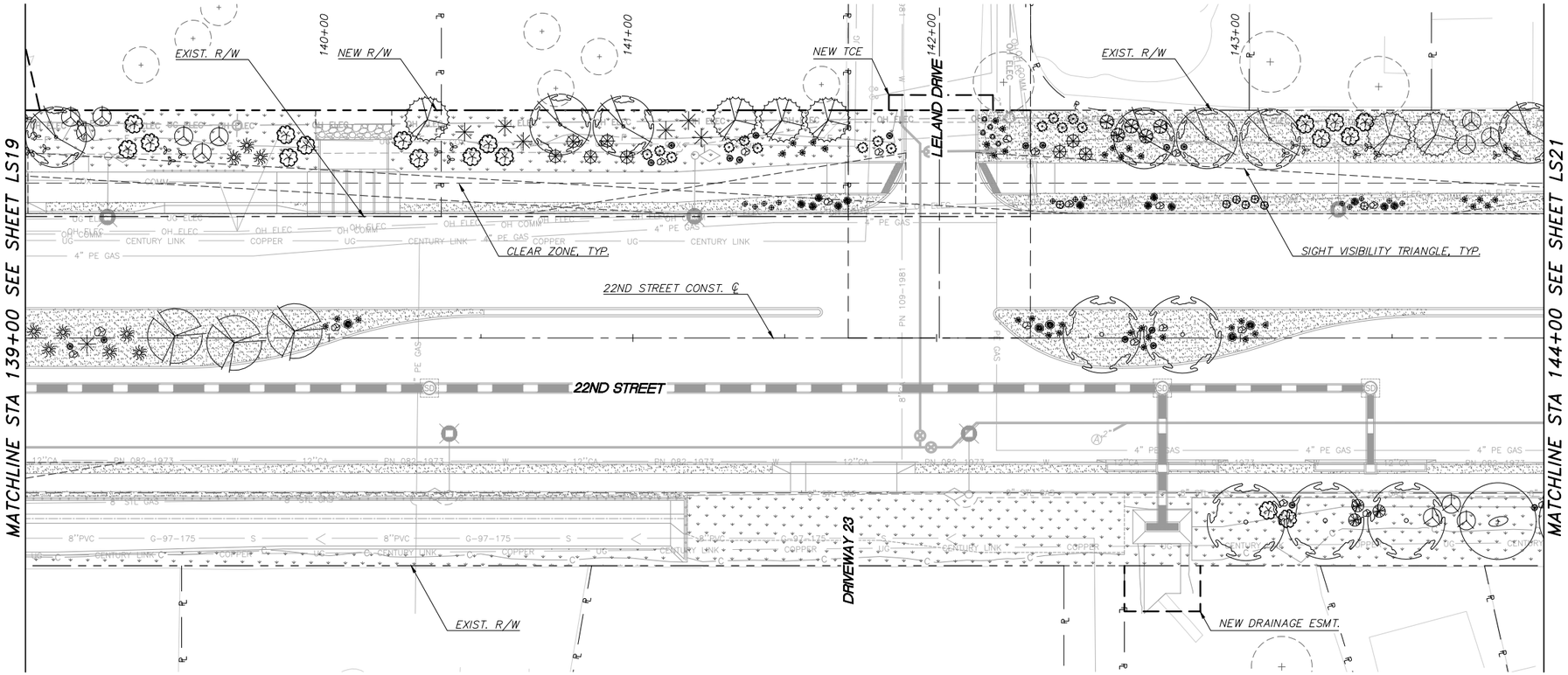
22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

LS19 OF LS24
225 OF 316

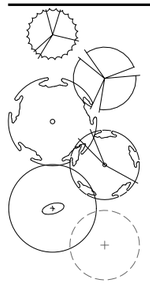
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0 20' 40'
SCALE: 1"=20'

LANDSCAPE LEGEND

TREES

SYMBOL	BOTANICAL NAME COMMON NAME
	ACACIA CONSTRICTA WHITETHORN ACACIA
	CHILOPSIS LINEARIS DESERT WILLOW
	PARKINSONIA FLORIDA BLUE PALO VERDE
	PARKINSONIA MICROPHYLLA FOOTHILLS PALO VERDE
	PROSOPIS VELUTINA VELVET MESQUITE
	EXISTING TREE TO REMAIN

SHRUBS / GROUNDCOVERS

SYMBOL	BOTANICAL NAME COMMON NAME
	ASCLEPIAS SUBULATA DESERT MILKWEED
	BAILEYA MULTIRADIATA DESERT MARIGOLD
	CALLIANDRA ERIOPHYLLA PINK FAIRY DUSTER
	CELTIS PALLIDA DESERT HACKBERRY
	CONDALIA WARNOCKII VAR. KEARNEYANA KEARNEY CONDALIA
	ENCELIA FARINOSA BRITTLEBUSH
	LARREA TRIDENTATA CREOSOTE

SHRUBS / GROUNDCOVERS CONT.

SYMBOL	BOTANICAL NAME COMMON NAME
	LYCIUM FREMONTII WOLFBERRY
	MELAMPODIUM LEUCANTHUM BLACKFOOT DAISY
	SIMMONDSIA CHINENSIS JOJOBA
	SPHAERALCEA AMBIGUA 'ORANGE CRUSH' ORANGE CRUSH' DESERT GLOBEMALLOW
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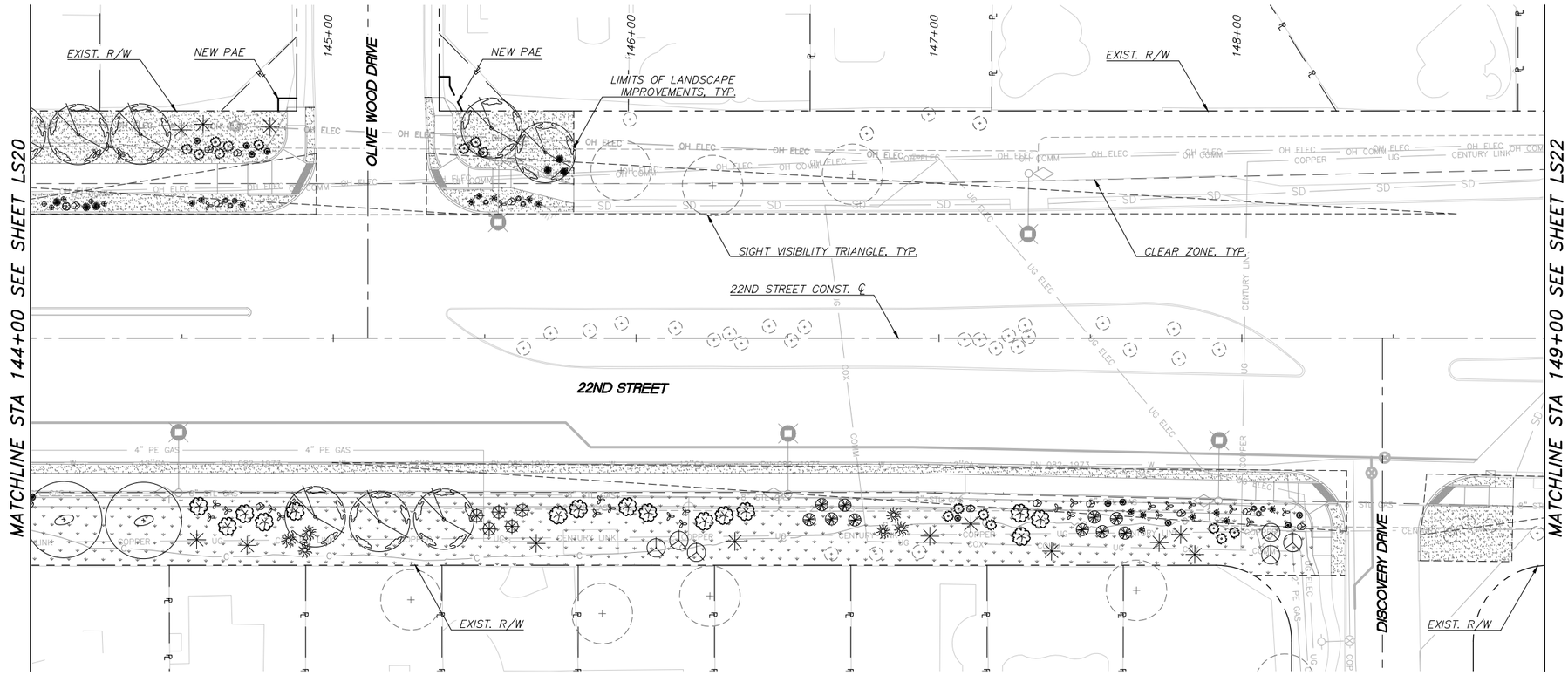
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET – CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE PLAN SHEETS – 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM	CHKD. BY J. SENNE	APPR. BY R. FIELD
AUG 20 25	AUG 20 25	AUG 20 25

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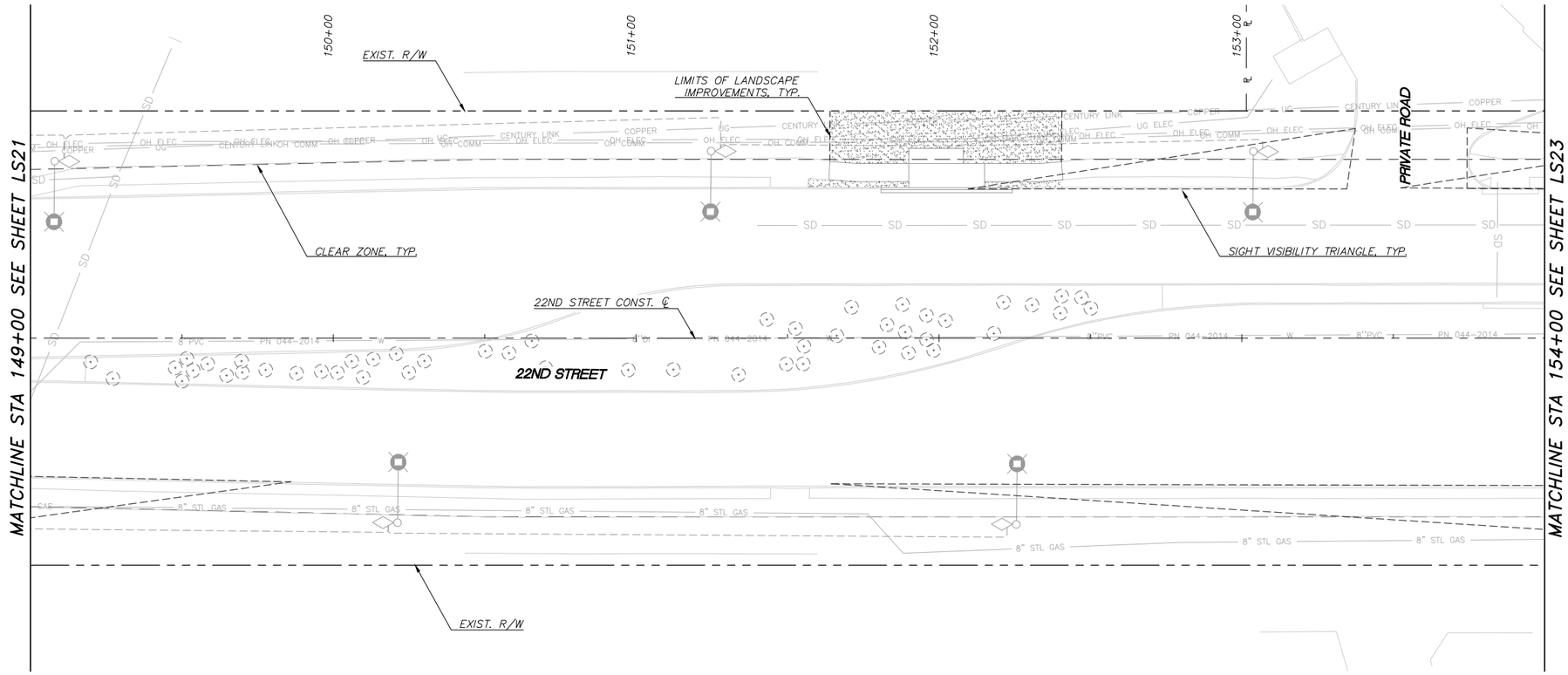
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LS21 OF LS24

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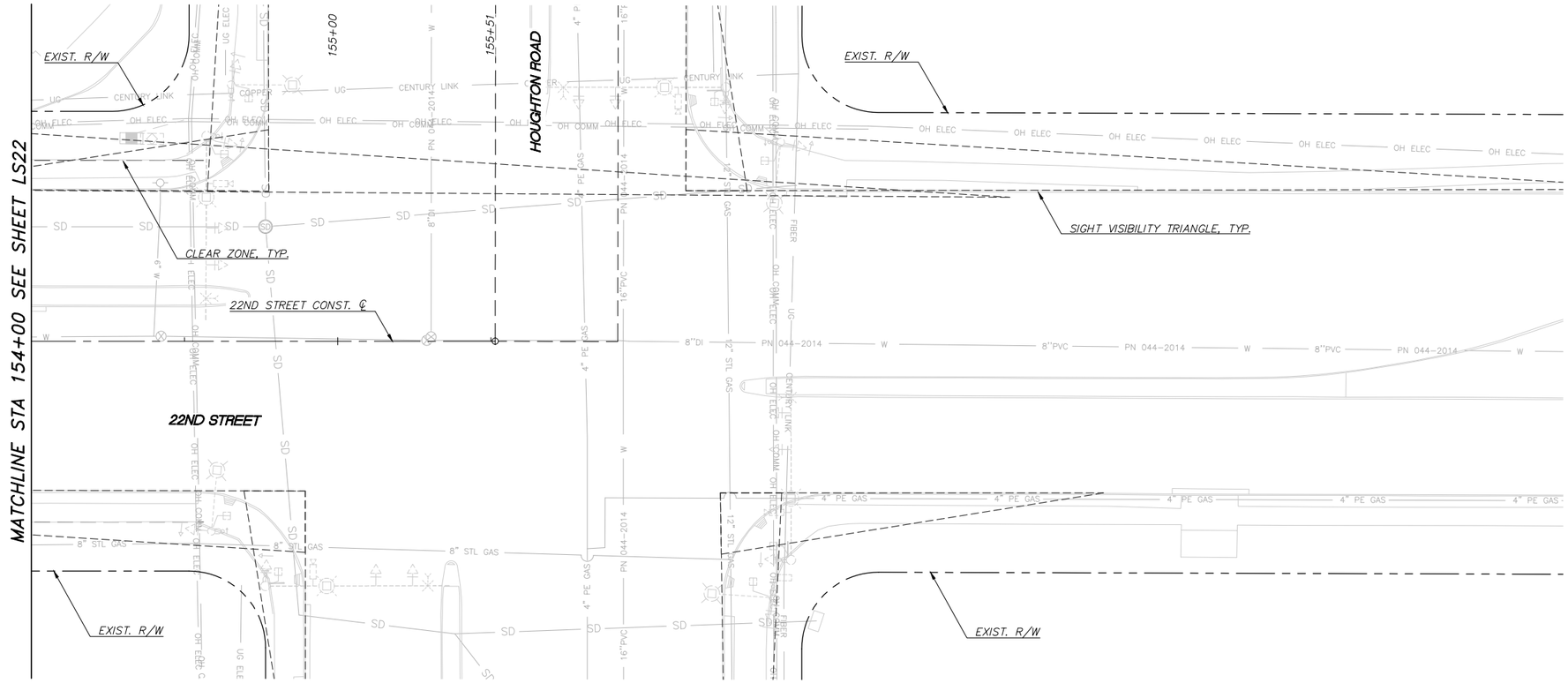
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NO LANDSCAPE MATERIAL THIS SHEET

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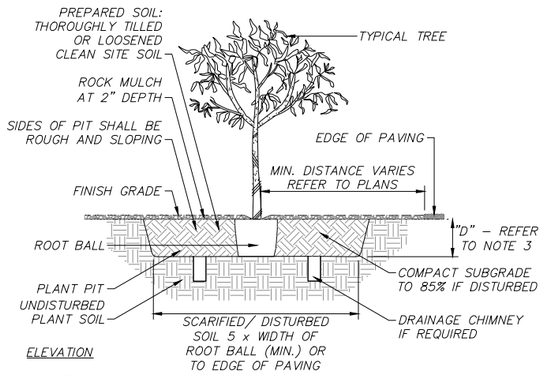
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LS23 OF LS24

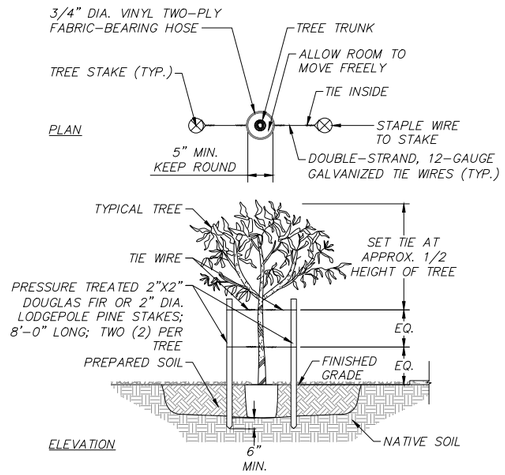
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NOTES:
1. NO PLANTS SHALL BE PRUNED EXCEPT AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
2. STAKE TREE ONLY IF NEEDED, PER DIRECTION OF OWNER'S REPRESENTATIVE. REFER TO TREE STAKING DETAIL.
3. DEPTH ("D") OF PLANT PIT TO BE EQUAL TO DEPTH OF ROOT BALL.
4. MULCH TO NOT TOUCH TRUNK OF TREE.

1 TREE PLANTING DETAIL

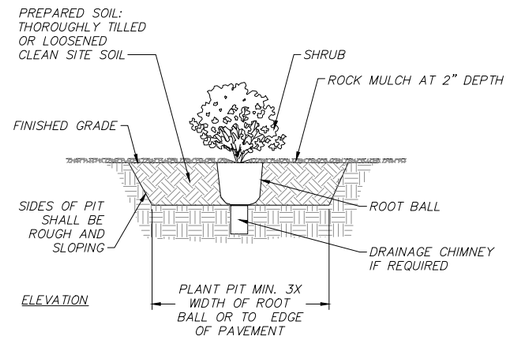
NTS



NOTES:
1. NO PLANTS SHALL BE PRUNED EXCEPT AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.
2. STAKE ALL 24" BOX TREES.
3. SET STAKES PARALLEL TO SIDEWALK AND PAVEMENT.

2 TREE STAKING DETAIL

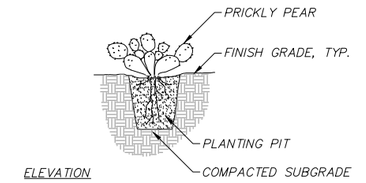
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3 SHRUB PLANTING DETAIL

1-GAL./5-GAL. PLANTS

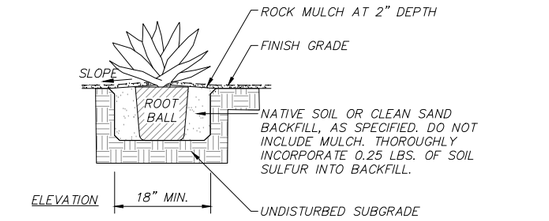
NTS



NOTES:
1. PLANT PIT TO BE 6" DEEPER THAN FREE EXTENSION OF ROOTS.
2. ROOT PRUNE ALL SHREDDED OR DAMAGED ROOTS.
3. CACTI: USE DRY SITE SOIL ONLY IN PIT – NO MULCH.
4. AT JOB SITE, DUST ENTIRE ROOT STRUCTURE WITH WETTABLE DUSTING SULPHUR (1.5# MIN.) AS PER INDUSTRY STANDARD.
5. PLANT ROOTS SHALL NOT BE ALLOWED TO DESICATE BEFORE PLANTING.
6. PLANTING DEPTH TO BE THAT AT WHICH PLANT WAS GROWN.

4 DESERT PLANTING

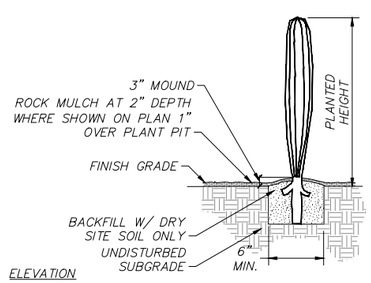
NTS



NOTES:
1. DO NOT CREATE A BASIN AT BASE OF PLANT. SLOPE BACKFILL AWAY FROM STEM.
2. SET STEM SUCCULENT SO THAT TOP OF ROOT BALL MATCHES ADJACENT GRADE.
3. THIS DETAIL APPLIES TO NURSERY GROWN STOCK OF THE GENERA HESPERALOE AND DASYLIRION.

5 SUCCULENT PLANTING

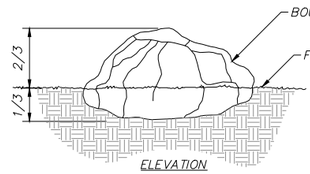
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NOTES:
1. ROOT PRUNE ALL SHREDDED OR DAMAGED ROOTS.
2. ENSURE ALL WOUNDS TO ROOT SYSTEM ARE CLEAN CUT BEFORE PLANTING. APPLY DUSTING SULFUR TO ALL AREAS BELOW GRADE.
3. PLANT PIT TO BE 6"MIN. WIDER THAN EXTENT OF SEVERED LATERAL ROOTS.
4. CUT THROUGH TAP ROOT TO PROVIDE FLAT BASE W/DIA. SUFFICIENT TO SUPPORT WEIGHT OF PLANT W/O SINKAGE.
5. BACKFILL PIT W/6" LAYERS OF RODDED, COMPACTED, DRY SITE SOIL.
6. PLANTING DEPTH TO BE AT DEPTH PLANT WAS ORIGINALLY GROWN OR SLIGHTLY DEEPER, BUT TAPERING OF THE ROOT COLLAR MUST BE VISIBLE.
7. ENSURE SURFACE WATER CAN NOT STAND AGAINST THE ROOT COLLAR.
8. ALL SAGUARO PLACEMENTS MUST MATCH ORIGINAL ORIENTATION W/ ORIGINAL NORTH SIDE FACING NORTH. NORTH SIDE OF PLANTS TO BE MARKED BY THE NURSERY.
9. SAGUARO ARE SPECIFIED BY HEIGHT. A VARIETY OF HEIGHTS MAY BE ACCEPTABLE PROVIDED THE AVERAGE IS NOT LESS THAN THAT SPECIFIED.
10. DO NOT WATER FOR THREE WEEKS FOLLOWING PLANTING.

6 SAGUARO PLANTING DETAIL

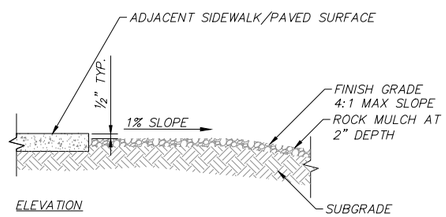
NTS



NOTES:
1. BOULDER TO BE SET WITH MINIMUM 1/3 MASS BELOW FINISHED GRADE.
2. SUBGRADE TO BE COMPACTED TO 90% OR AS OTHERWISE INDICATED ON PLANS.
3. ALL BOULDERS TO BE FROM SURFACE LOCATIONS, WEATHERED AND UNBROKEN. COLOR SHALL BE DESERT GOLD, OR APPROVED EQUAL.

7 DECORATIVE BOULDER

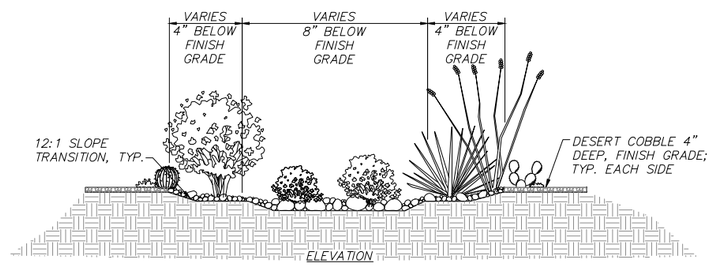
NTS



8 TYPICAL FINISH GRADE AT CURB AND PAVING ALONG ROADWAY

WITH ROCK MULCH

NTS



NOTES:
1. MAINTAIN FLOW-LINE FOR BASINS, NO CONTROL PROVIDED; FIELD ADJUSTMENTS MAY BE REQUIRED.
2. CONTRACTOR TO SPRAY PAINT LAYOUT OF BASINS FOR APPROVAL OF ENGINEER PRIOR TO INSTALLATION.

9 WATER HARVESTING BASIN

NTS

NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
LANDSCAPE DETAILS - 22ND STREET

CITY OF TUCSON

DRWN. BY O. GILLIAM AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

LS24 OF LS24

230 OF 316

K:\TUC_Roadway\098134220_CGT 22nd Street\CADD\Street Files\134220lsd01.dwg Aug 21, 2025 - Jake.Senne
XREFS: x134220sh x134220fnt x134220ltl x134220ls x134220ms x134220ms-n x134220mw x134220mw-n x134220wetcuts-20 scale x134220ult-e x134220ult-n x134220wlg x134220tpo x134220dwr

IRRIGATION GENERAL NOTES

1. IRRIGATION PLANS ARE SCHEMATIC. EQUIPMENT LOCATIONS SHALL BE APPROVED IN THE FIELD BY OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
2. SOURCE WATER PRESSURE OF THE IRRIGATION SYSTEM REQUIRES A MINIMUM STATIC PRESSURE AT POC OF 60 PSI.
3. MAXIMUM WATER DEMAND SHALL BE 8.2 GPM. RUN A MAXIMUM OF TWO VALVES AT ONCE.
4. CONTRACTOR TO FIELD VERIFY ALL WATER PRESSURE AND FLOWS PRIOR TO INSTALLATION OF SYSTEM. IF INSUFFICIENT PRESSURE OR VOLUME ARE ENCOUNTERED NOTIFY OWNER IMMEDIATELY. CONTRACTOR SHALL COORDINATE WITH OWNER AS NEEDED TO ENSURE THAT IRRIGATION SCHEDULE DOES NOT CONFLICT WITH OTHER ACTIVITIES REQUIRING HIGH WATER USAGE.
5. ALL PIPING AND WIRING PLACED UNDER PAVED AREAS SHALL BE SLEEVED PER THE PLAN DETAILS. SLEEVE INSTALLATIONS SHALL BE COMPLETED PRIOR TO THE START OF ANY PAVING OPERATIONS.
6. SLEEVES ARE 4" SCH. 40 PVC UNLESS NOTED OTHERWISE. EXTEND ALL SLEEVES 1' BEYOND PAVEMENT, CURB, OR BACK OF SIDEWALK AS APPLICABLE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, TESTING, MAINTAINING, REPAIRING, AND OPERATING A COMPLETE AND FULLY FUNCTIONAL IRRIGATION SYSTEM INCLUDING ALL LATERAL PIPING AND FITTINGS AS SPECIFIED AND AS DETAILED, WHETHER OR NOT PIPING IS SHOWN ON THE PLANS.
8. CONTRACTOR SHALL VERIFY WATER METER HAS BEEN TESTED BEFORE BEGINNING OF PROJECT. IF NOT, CONTRACTOR WILL SCHEDULE AND PROVIDE TESTING.
9. ANY SUBSTITUTIONS OR OMISSIONS OF IRRIGATION COMPONENTS AND EQUIPMENT MUST BE APPROVED IN WRITING BY PROJECT ENGINEER PRIOR TO STARTING INSTALLATION.
10. IRRIGATION SYSTEM SHALL BE OPERATIONAL AND VERIFIED BY PROJECT ENGINEER PRIOR TO PLANTING.
11. NO PLANT SHALL BE ORDERED OR INSTALLED UNTIL IRRIGATION SYSTEM IS INSTALLED, TESTED, APPROVED, AND FULLY FUNCTIONAL.
12. ALL IRRIGATION LINES SHALL MAINTAIN A MINIMUM 12" CLEARANCE FROM ALL TEP POLES.

IRRIGATION LEGEND

SYMBOL	EQUIPMENT	PRODUCT	SIZE
M	METER	REFER TO CIVIL PLANS	1½"
C	CONTROLLER	RAINBIRD EXP16LXMEF 16-STATION	
B	BACKFLOW PREVENTER	FEBCO 825Y REDUCED PRESSURE	1½"
MV	MASTER VALVE	RAINBIRD	1½"
FS	FLOW SENSOR W/ FLOW SENSOR CABLE		
	GATE VALVE	NIBCO T-113-K	1½"
	PRESSURE REGULATOR	SENNINGER PMR35MF	1"
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER	RAINBIRD 100-PEB	1"
NOT SHOWN	FILTER	RAINBIRD RBY-100-200MX 1" Y FILTER W/200 MESH SCREEN	
	MAIN LINE	PVC SCH 40	1½"
	TREE SUB-MAIN LINE	PVC SCH 40	1"
S	SHRUB SUB-MAIN LINE	PVC SCH 40	1"
T	TREE LATERAL LINE	PVC SCH 40	¾"
s	SHRUB LATERAL LINE	PVC SCH 40	¾"
	SLEEVE	PVC SCH 40	4" U.N.O.
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)	RAINBIRD EMT-6XERI W/ XB-05PC, XB-10PC, XB-20PC AS NEEDED	
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)	RAINBIRD XBT-10-6, XBT-20-6; 1 PER TREE; SHRUBS WITH SAME FLOW RATE TO SHARE	
	END CAP	AUTOMATIC FLUSHING, COMPRESSION END PLUG	
S-T XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE		
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE		

NEW PIPE SLEEVE SUMMARY

PS XX.XX	SHEET	SIZE (INCHES)	LENGTH (FEET)	1" CONDUIT (FEET)
2.01	IR02	6	8.0	---
2.02	IR02	4	34.3	---
3.01	IR03	4	8.0	---
3.02	IR03	4	8.0	---
3.03	IR03	4	34.3	---
3.04	IR03	6	8.0	---
3.05	IR03	4	34.3	---
3.06	IR03	4	32.7	32.7
3.07	IR03	4	34.3	---
3.08	IR03	4	8.0	---
4.01	IR04	4	46.3	---
4.02	IR04	4	8.0	---
4.03	IR04	6	34.3	---
4.04	IR04	4	8.0	---
4.05	IR04	4	33.0	---
4.06	IR04	4	8.0	---
5.01	IR05	4	8.0	---
5.02	IR05	4	8.0	---
5.03	IR05	6	34.3	---
5.04	IR05	4	34.3	---
5.05	IR05	4	43.8	---
6.01	IR06	4	9.0	---
6.02	IR06	4	8.0	---
6.03	IR06	4	46.6	---
6.04	IR06	6	52.3	---
6.05	IR06	4	8.0	---
7.01	IR07	4	12.0	---
7.02	IR07	4	8.0	---
7.03	IR07	4	10.0	---
7.04	IR07	4	29.2	---
7.05	IR07	4	34.3	---
7.06	IR07	4	49.5	29.2
7.07	IR07	4	8.0	---
7.08	IR07	4	19.7	---
7.09	IR07	4	29.8	29.8
7.10	IR07	4	27.3	---
7.11	IR07	4	43.7	---
8.01	IR08	4	8.0	---
8.02	IR08	4	16.0	---
8.03	IR08	4	16.0	---
8.04	IR08	4	8.0	---
8.05	IR08	6	34.3	---
8.06	IR08	4	8.0	---
8.07	IR08	4	8.0	---
8.08	IR08	6	43.3	---

PS XX.XX	SHEET	SIZE (INCHES)	LENGTH (FEET)	1" CONDUIT (FEET)
9.01	IR09	4	8.0	---
9.02	IR09	6	46.3	---
9.03	IR09	4	43.6	---
10.01	IR10	4	8.0	---
10.02	IR10	4	46.3	---
10.03	IR10	4	27.3	---
10.04	IR10	4	46.3	---
10.05	IR10	6	46.3	---
10.06	IR10	6	31.3	---
10.07	IR10	4	43.2	---
10.08	IR10	4	34.3	---
11.01	IR11	4	60.0	---
11.02	IR11	4	34.3	---
11.03	IR11	4	57.3	57.3
11.04	IR11	4	59.4	---
12.01	IR12	4	43.3	---
12.02	IR12	4	43.3	---
12.03	IR12	4	40.6	---
12.04	IR12	4	8.0	---
12.05	IR12	4	15.3	---
12.06	IR12	4	8.0	---
12.07	IR12	4	39.4	---
12.08	IR12	4	8.0	---
12.09	IR12	4	8.6	---
13.01	IR13	4	9.7	---
13.02	IR13	4	10.3	---
13.03	IR13	4	8.0	---
13.04	IR13	4	33.6	---
13.05	IR13	4	8.0	---
13.06	IR13	4	34.0	---
13.07	IR13	4	10.7	---
13.08	IR13	4	8.0	---
13.09	IR13	4	8.0	---
13.10	IR13	4	12.1	---
14.01	IR14	4	36.2	---
14.02	IR14	4	29.5	---
14.03	IR14	4	8.0	---
14.04	IR14	4	16.3	---
14.05	IR14	6	34.3	---
14.06	IR14	6	8.0	---
14.07	IR14	4	8.0	---
14.08	IR14	4	39.7	---
14.09	IR14	6	8.0	---
14.10	IR14	6	38.7	---
14.11	IR14	4	8.0	---

PS XX.XX	SHEET	SIZE (INCHES)	LENGTH (FEET)	1" CONDUIT (FEET)
14.12	IR14	4	8.0	8.0
14.13	IR14	6	8.0	---
14.14	IR14	4	19.8	---
14.15	IR14	4	15.3	15.3
14.16	IR14	4	15.3	---
14.17	IR14	4	8.0	---
14.18	IR14	4	11.0	---
14.19	IR14	4	11.0	---
14.20	IR14	4	50.3	50.3
14.21	IR14	4	50.3	---
14.22	IR14	6	12.6	12.6
14.23	IR14	4	12.0	---
14.24	IR14	4	11.1	---
14.25	IR14	4	12.0	---
14.26	IR14	4	8.0	---
14.27	IR14	4	11.1	---
15.01	IR15	6	12.0	12.0
15.02	IR15	6	14.3	14.3
15.03	IR15	4	11.1	---
15.04	IR15	6	12.0	12.0
15.05	IR15	4	11.1	---
15.06	IR15	4	14.3	---
15.07	IR15	4	17.7	---
15.08	IR15	4	15.3	---
15.09	IR15	4	12.0	---
15.10	IR15	4	8.0	---
15.11	IR15	4	8.0	---
15.12	IR15	4	39.3	39.3
15.13	IR15	4	12.0	12.0
16.01	IR16	4	12.0	---
16.02	IR16	4	12.0	---
16.03	IR16	6	34.3	---
16.04	IR16	6	43.2	---
16.05	IR16	6	12.0	---
16.06	IR16	6	34.3	---
16.07	IR16	6	43.2	---
16.08	IR16	4	12.0	---
17.01	IR17	4	12.0	---
17.02	IR17	4	12.0	---
17.03	IR17	4	12.0	---
17.04	IR17	4	12.0	---
17.05	IR17	4	50.3	---
18.01	IR18	4	14.0	---
18.02	IR18	4	75.3	75.3
18.03	IR18	4	8.0	---
18.04	IR18	4	14.0	---

PS XX.XX	SHEET	SIZE (INCHES)	LENGTH (FEET)	1" CONDUIT (FEET)
18.05	IR18	4	34.3	---
18.06	IR18	4	14.0	14.0
18.07	IR18	4	34.3	---
18.08	IR18	4	43.3	---
18.09	IR18	4	14.0	---
18.10	IR18	4	57.0	57.0
18.11	IR18	4	48.0	---
18.12	IR18	4	14.0	---
19.01	IR19	4	63.0	63.0
19.02	IR19	4	46.1	---
19.03	IR19	4	14.0	---
19.04	IR19	4	13.2	---
19.05	IR19	4	52.5	---
19.06	IR19	6	47.3	---
19.07	IR19	4	34.3	---
19.08	IR19	4	18.0	18.0
19.09	IR19	4	18.0	---
19.10	IR19	4	18.0	---
19.11	IR19	4	9.0	---
19.12	IR19	4	27.3	---
19.13	IR19	4	18.0	18.0
19.14	IR19	4	18.0	---
19.15	IR19	4	20.0	---
20.01	IR20	4	13.0	---
20.02	IR20	4	26.3	26.3
20.03	IR20	4	12.0	---
20.04	IR20	4	34.2	---
20.05	IR20	4	12.0	---
20.06	IR20	4	34.2	---
20.07	IR20	4	48.4	---
21.01	IR21	4	57.7	---
21.02	IR21	4	9.0	---

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NO.	DATE	REVISION	BY	CHKD.	APPR.

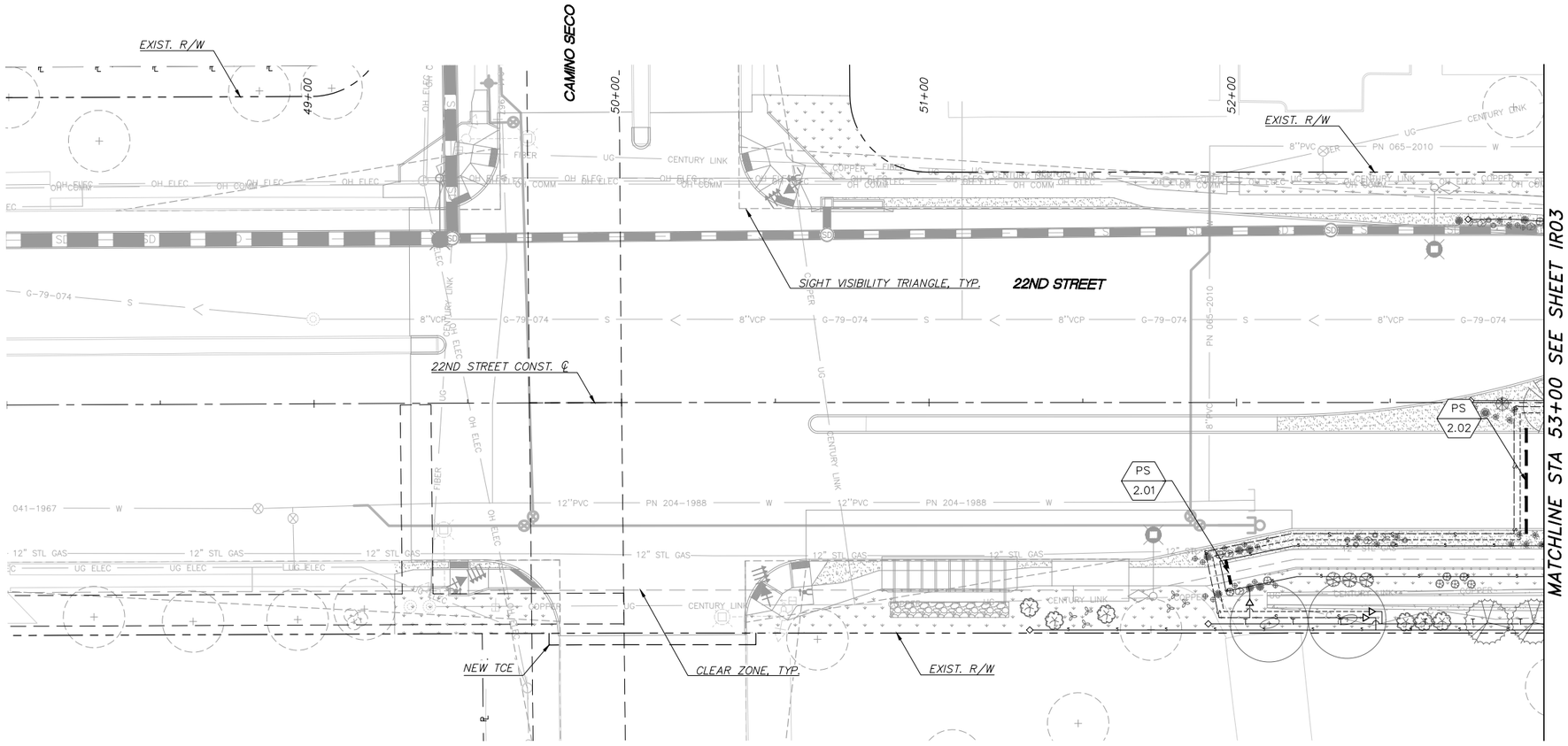
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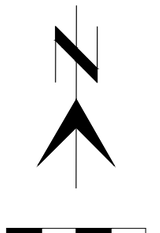
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION GENERAL NOTES - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

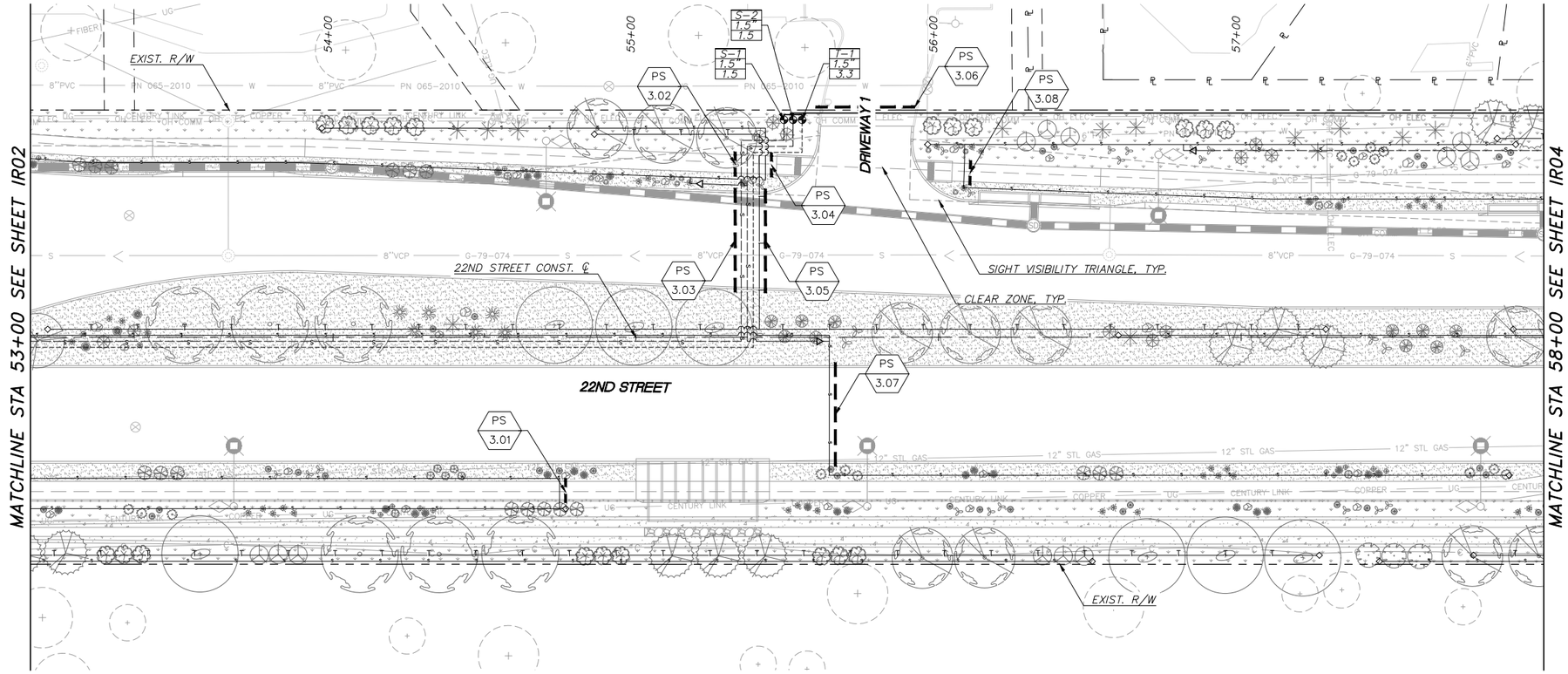




IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-T / XX / GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS / XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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NO.	DATE	REVISION	BY	CHKD.	APPR.

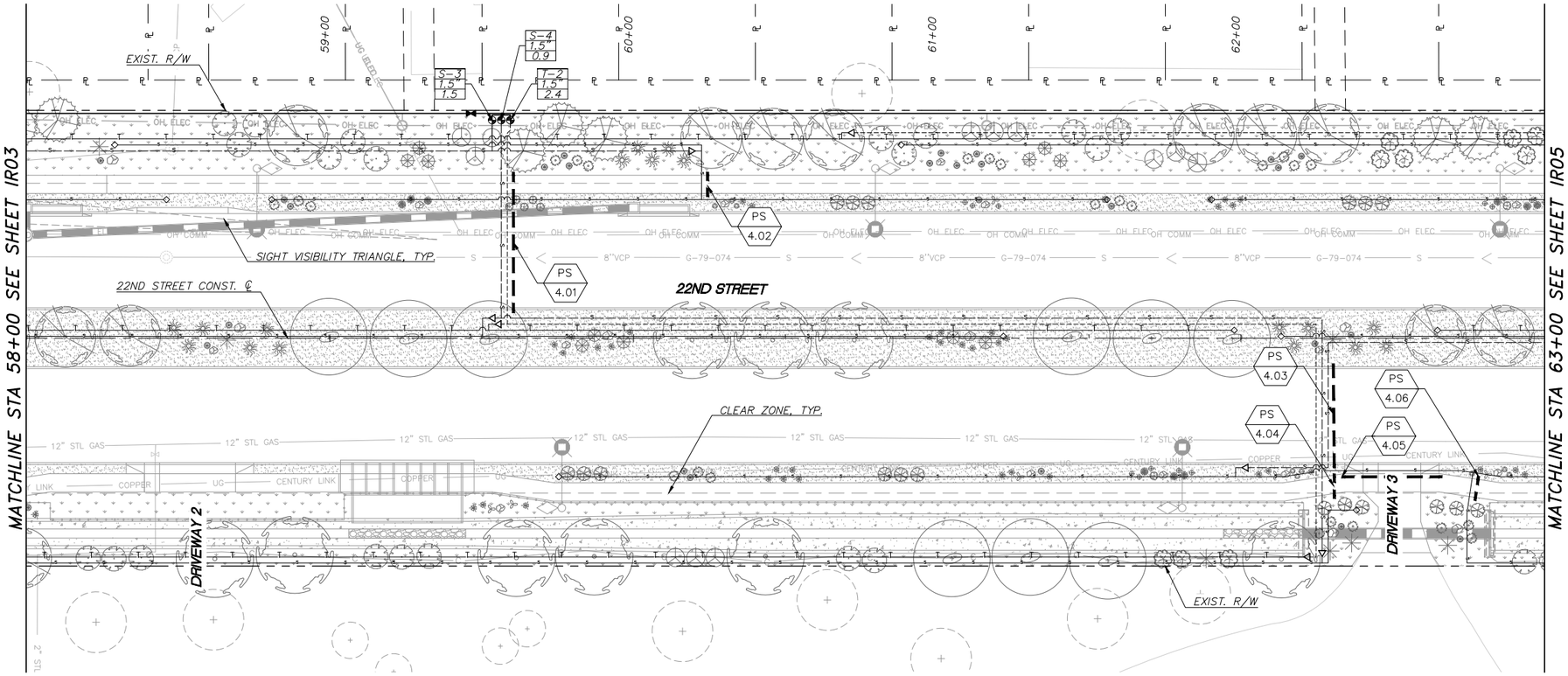
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

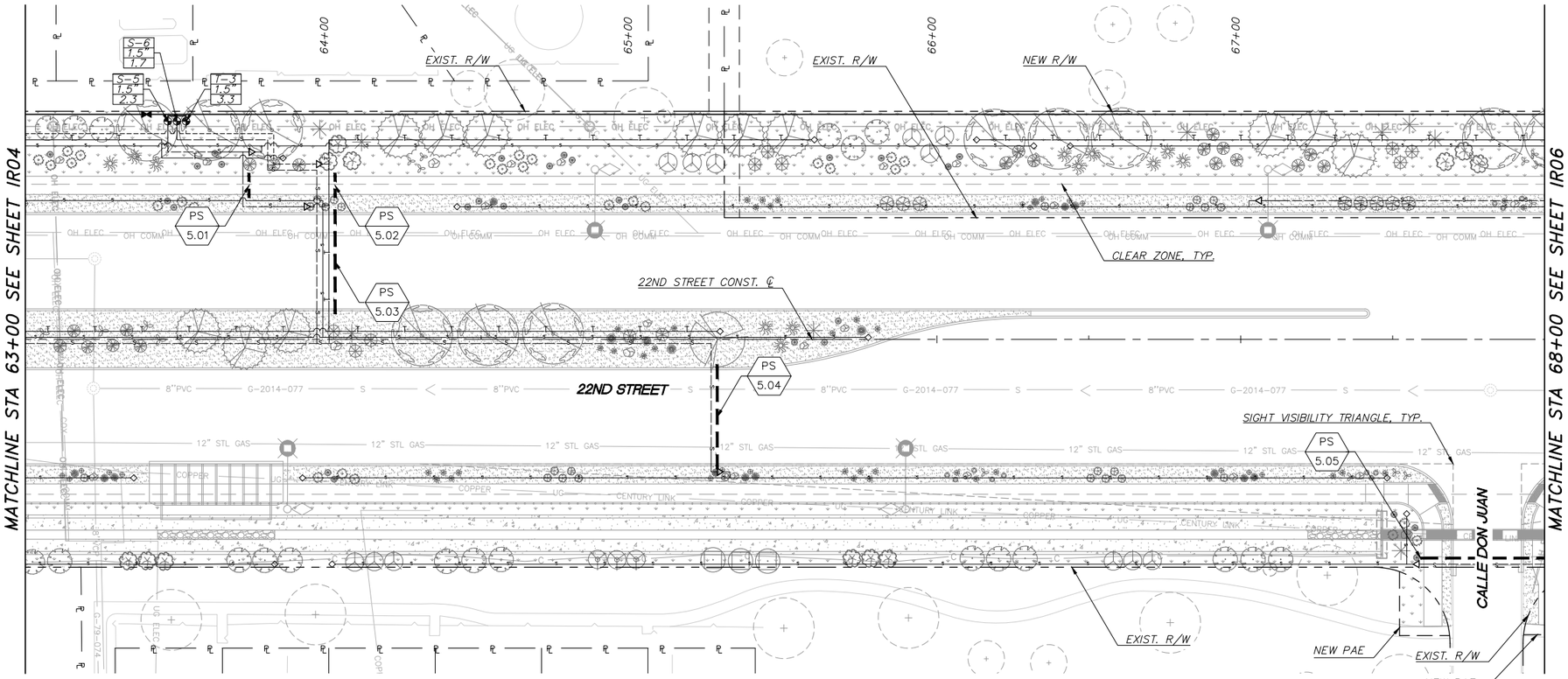


0 20' 40'
SCALE: 1"=20'

IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
△	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
———	MAIN LINE
- - - - - - -	TREE SUB-MAIN LINE
——— S ———	SHRUB SUB-MAIN LINE
——— T ———	TREE LATERAL LINE
——— S ———	SHRUB LATERAL LINE
▬▬▬▬▬	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
———◇	END CAP
S-1 / XX / GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS / XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
⋈	GATE VALVE
△	PRESSURE REGULATOR
◕	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
———	MAIN LINE
- - - - - - -	TREE SUB-MAIN LINE
——— S ———	SHRUB SUB-MAIN LINE
——— T ———	TREE LATERAL LINE
——— S ———	SHRUB LATERAL LINE
▬▬▬▬▬	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
——◇	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

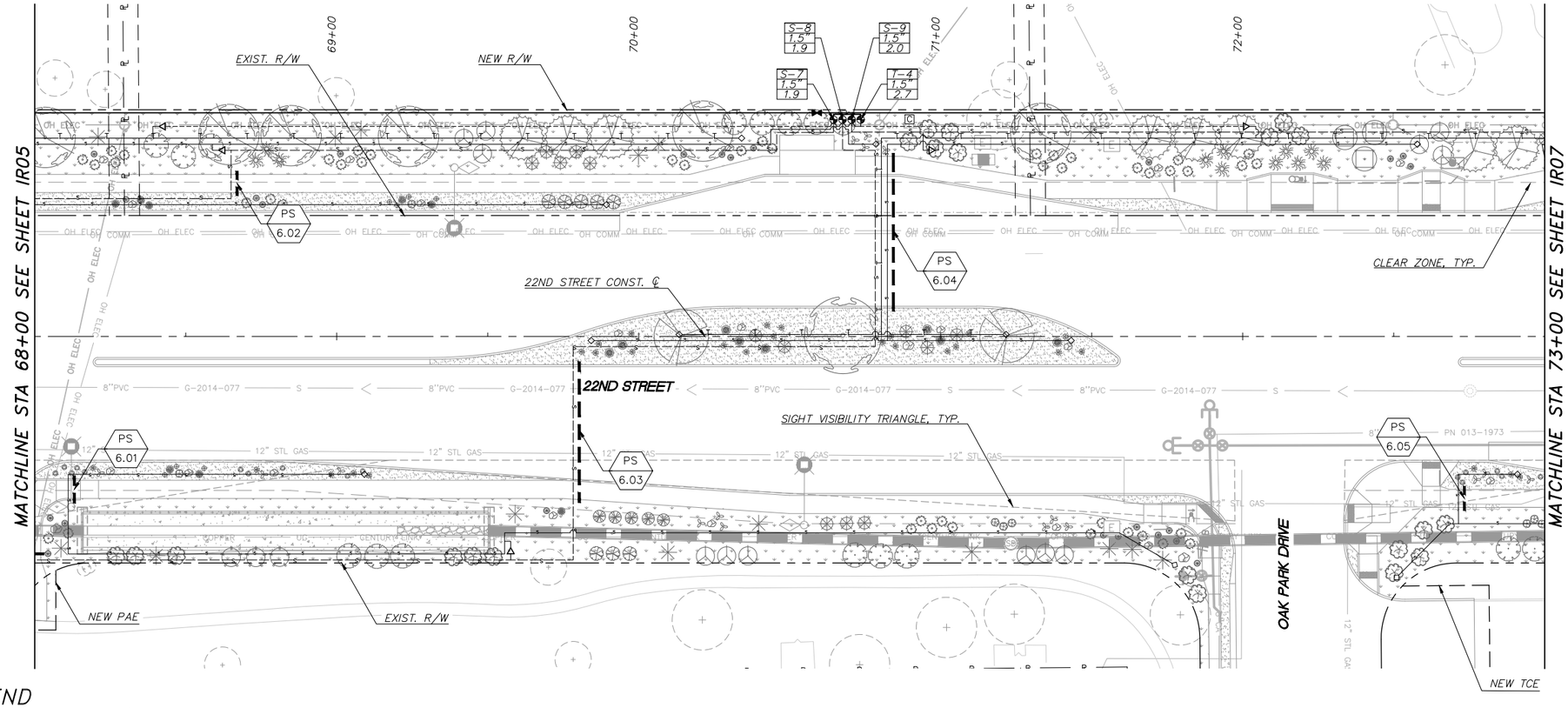
DRWN. BY	CHKD. BY	APPR. BY	SCALE
E. HUGHES AUG 20 25	J. SENNE AUG 20 25	R. FIELD AUG 20 25	H: 1"=20' V: N/A

PLAN NO. I-2025-004

IR05 OF IR26

235 OF 316

K:\TUC_Roadway\098134201_2017 22nd Street\CADD\Sheet Files\134220r01.dwg Aug 21, 2025 Jake.Senne
XREFS: x134220lm_3814 x134220lt x134220ms x134220ms-s x134220ow x134220ow-n x134220ow-s x134220ow-n x134220scale x134220ult-n x134220ult-s x134220ult x134220pp x134220pp-n x134220pp-s x134220pp-n x134220pp x134220pp-n x134220pp-s x134220pp-n x134220pp x134220pp-n x134220pp-s x134220pp-n



IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
△	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
———	MAIN LINE
- - - - - -	TREE SUB-MAIN LINE
——— S ———	SHRUB SUB-MAIN LINE
——— T ———	TREE LATERAL LINE
——— S ———	SHRUB LATERAL LINE
▬▬▬▬	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
———◇	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

K:\TUC_Roadway\096134201_22nd Street\CADD\Sheet Files\134220r01.dwg Aug 21, 2025 Jake.Senne
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NO.	DATE	REVISION	BY	CHKD.	APPR.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

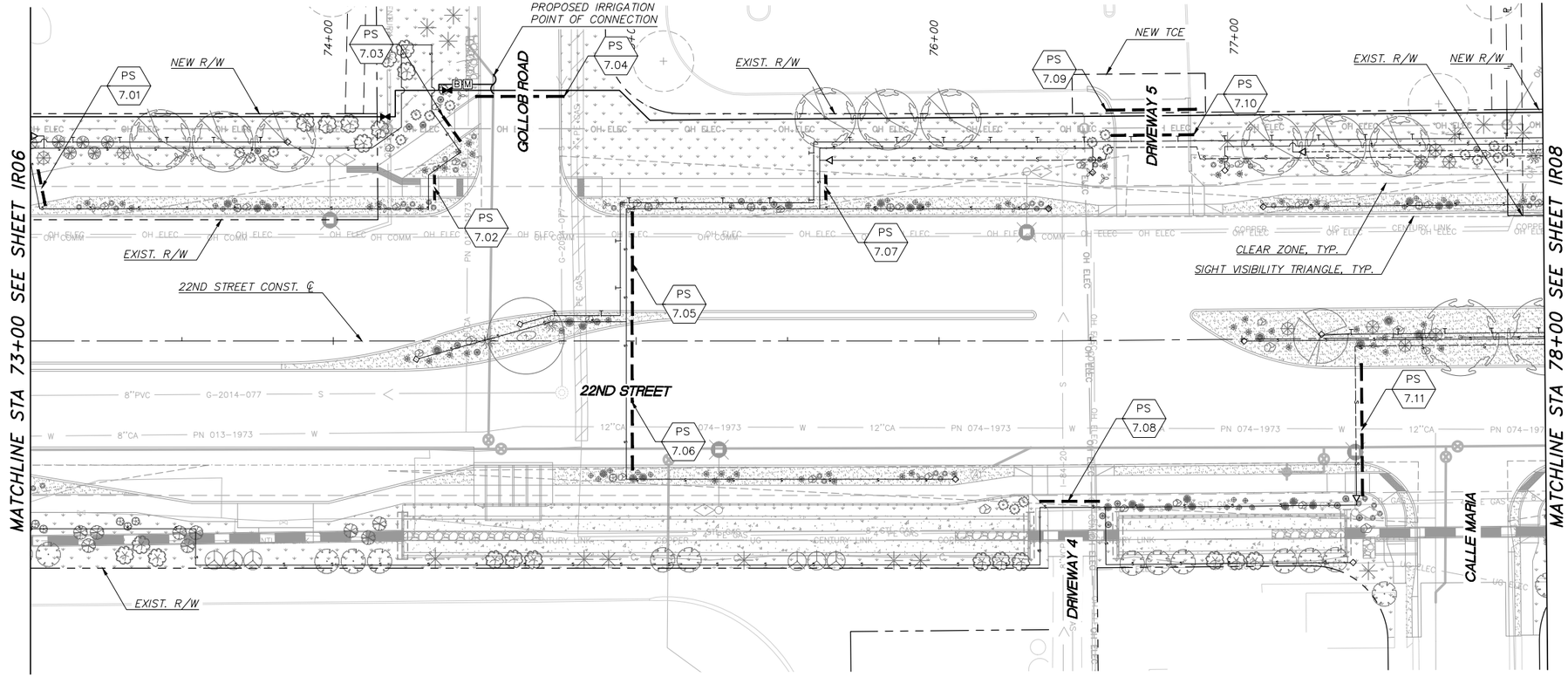
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES	CHKD. BY J. SENNE	APPR. BY R. FIELD
AUG 20 25	AUG 20 25	AUG 20 25

SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004



0 20' 40'
SCALE: 1"=20'

IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
—S—	SHRUB SUB-MAIN LINE
—T—	TREE LATERAL LINE
—S—	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-T XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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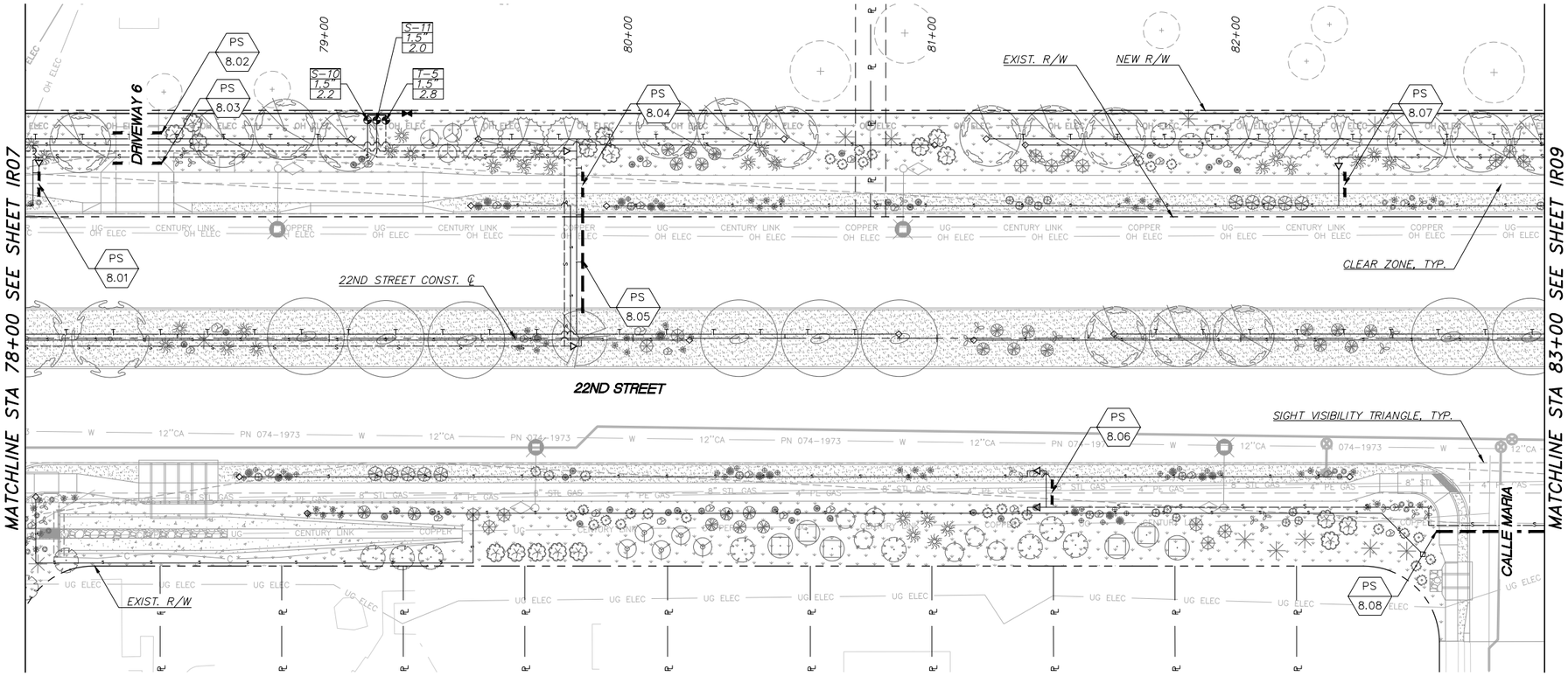
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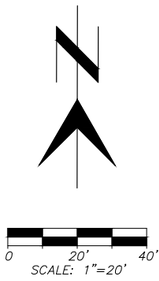
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004





IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
—S—	SHRUB SUB-MAIN LINE
—T—	TREE LATERAL LINE
—s—	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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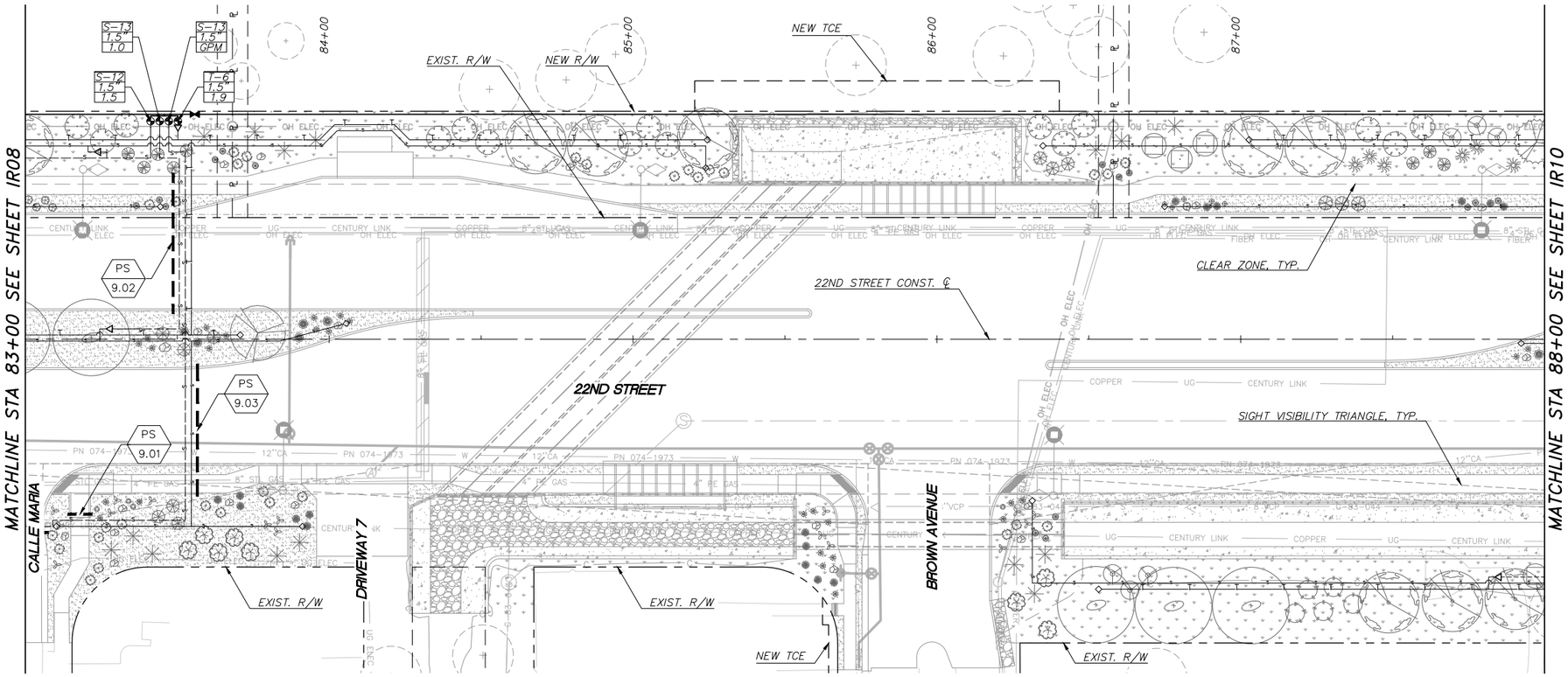
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004



IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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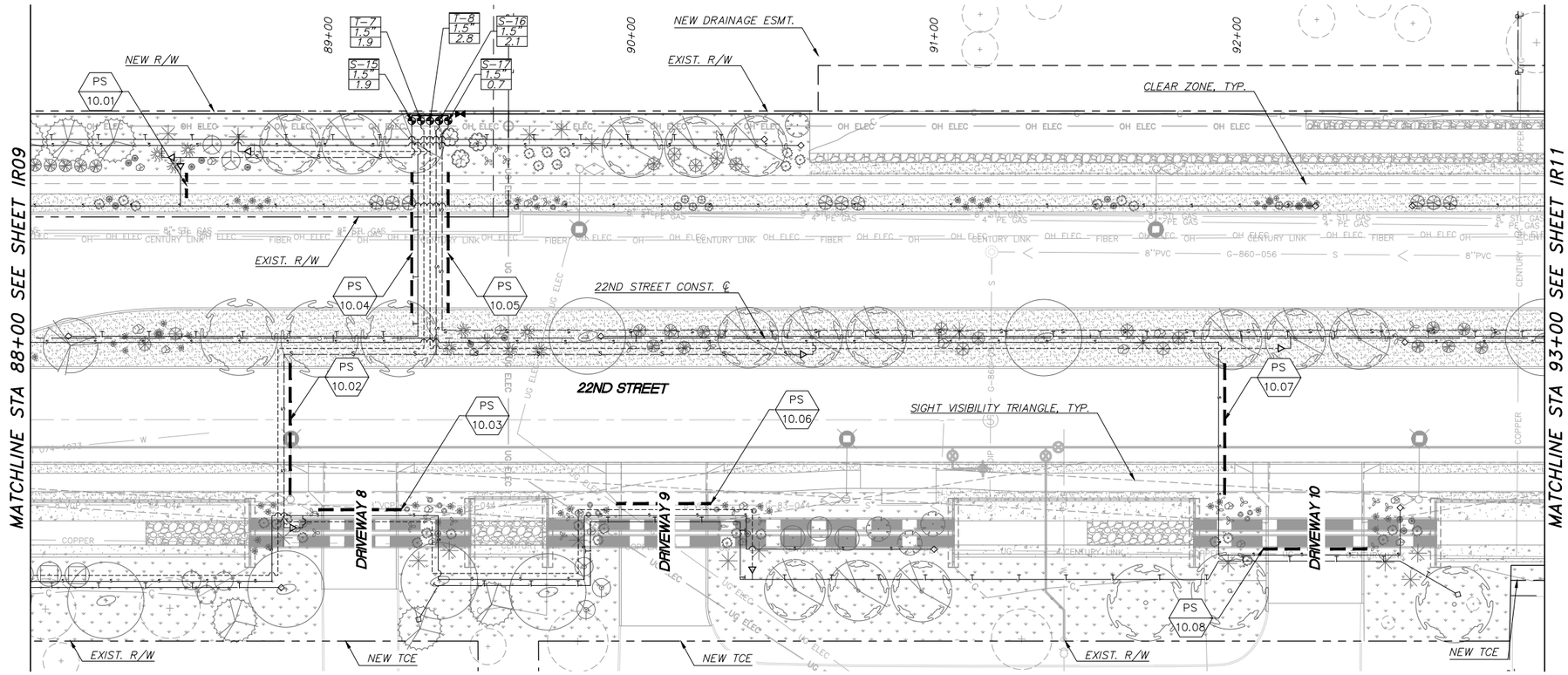
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

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IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
△	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
———	MAIN LINE
- - - - - - -	TREE SUB-MAIN LINE
——— S ———	SHRUB SUB-MAIN LINE
——— T ———	TREE LATERAL LINE
——— S ———	SHRUB LATERAL LINE
▬▬▬▬▬	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
———◇	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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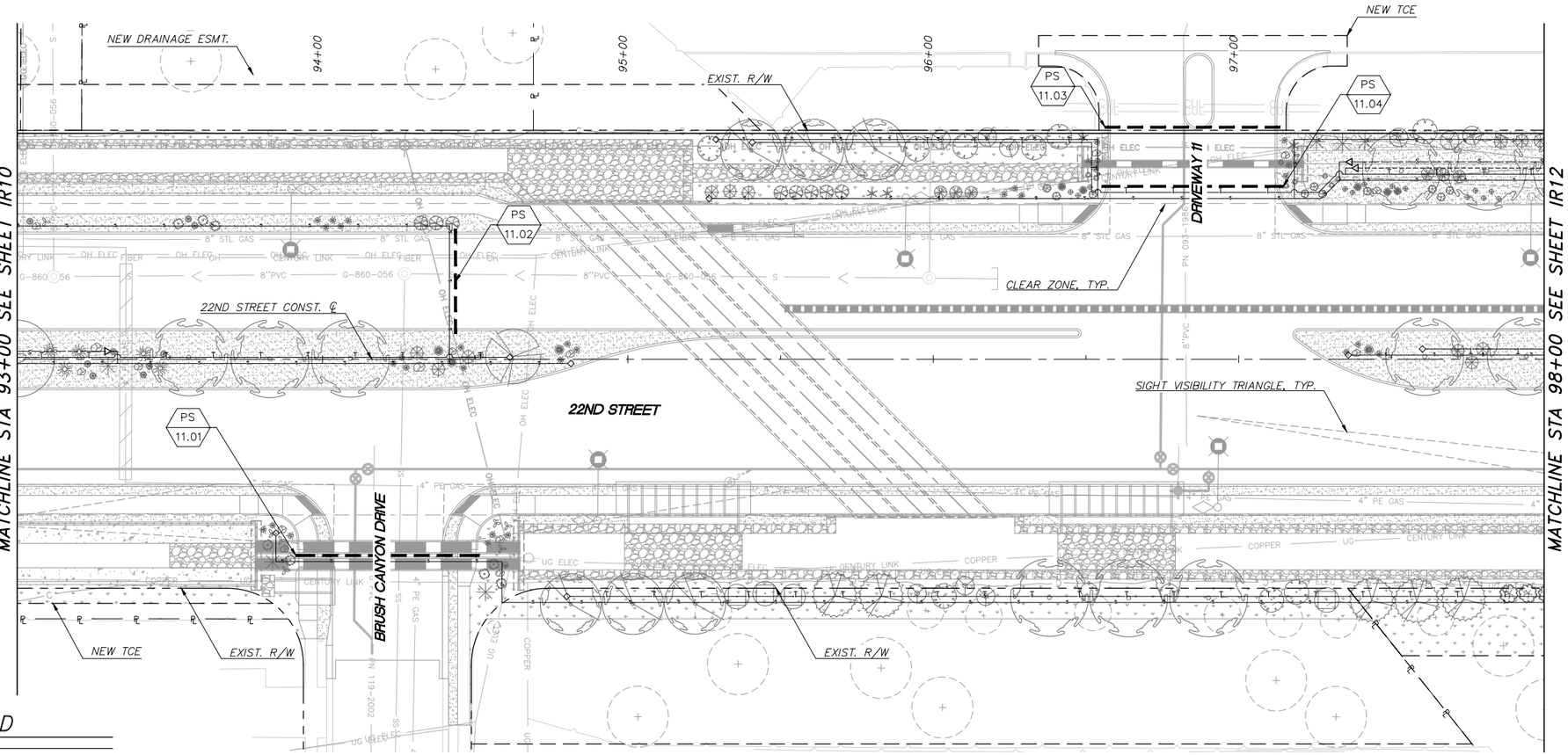
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

IR10 OF IR26

240 OF 316



IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-1 / XX / GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS / XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

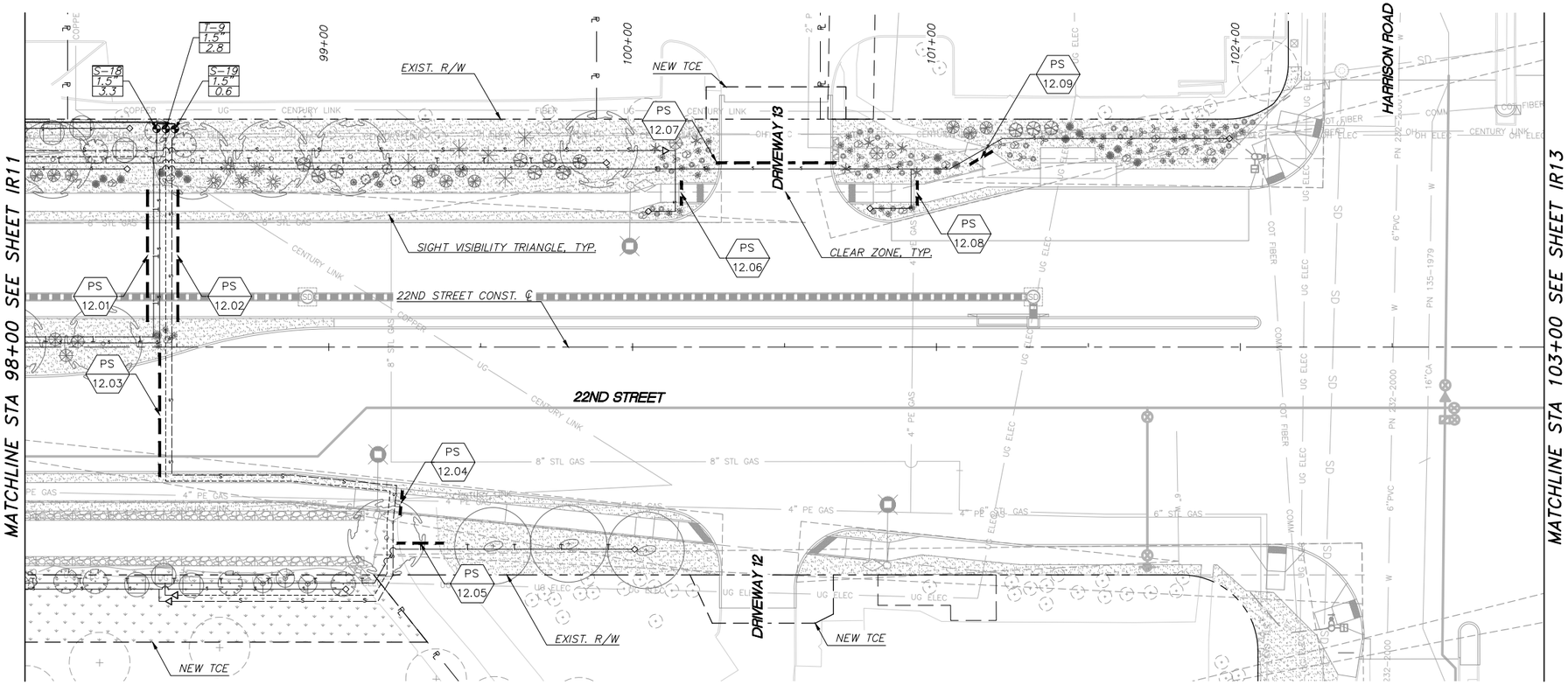
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES	CHKD. BY J. SENNE	APPR. BY R. FIELD	SCALE: H: 1"=20' V: N/A
AUG 20 25	AUG 20 25	AUG 20 25	PLAN NO. I-2025-004

IR11 OF IR26

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IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-T XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

K:\TUC_Roadway\096134201_2017 22nd Street\CADD\Sheet Files\134220r01.dwg Aug 21, 2025 Jake.Senne
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

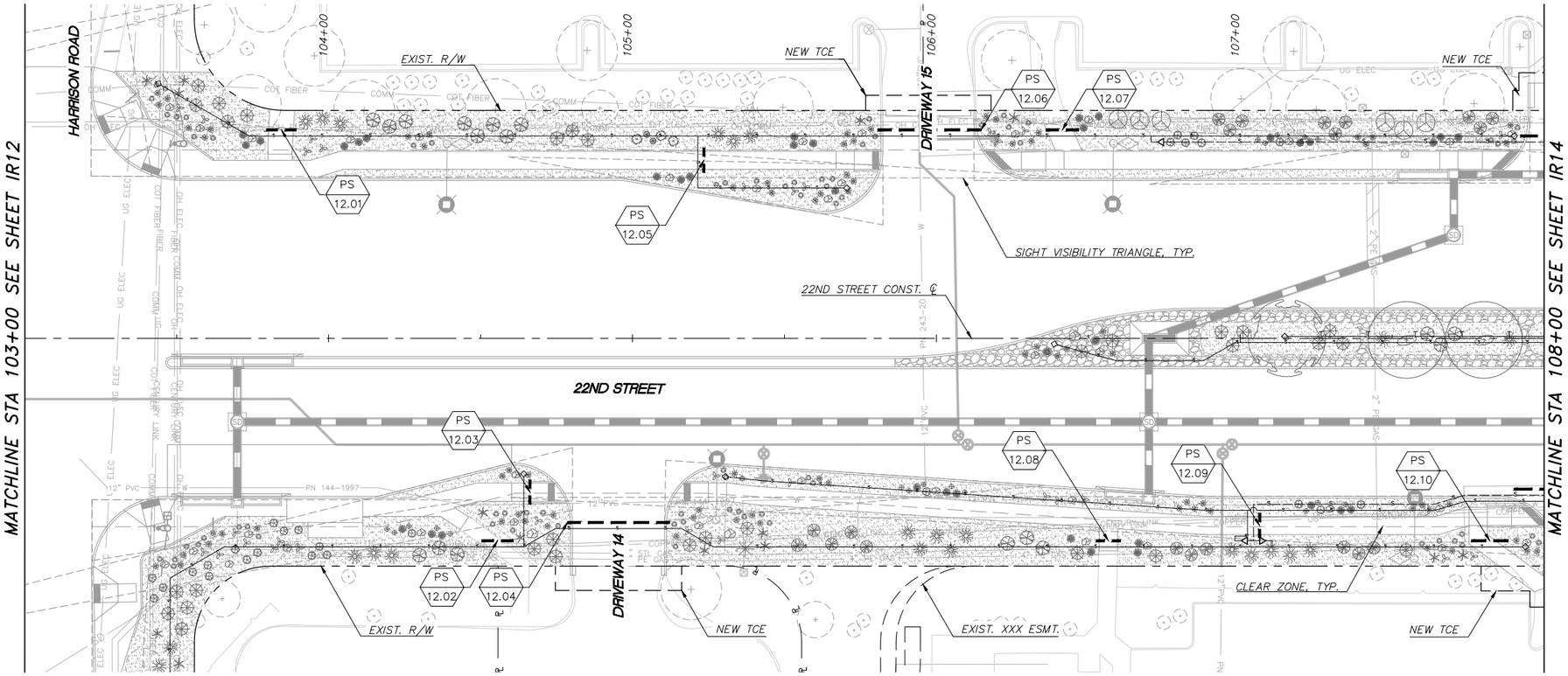
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

IR12 OF IR26

242 OF 316



0 20' 40'
SCALE: 1"=20'

IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-T XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

K:\TUC_Roadway\096134201_CDT 22nd Street\CADD\Sheet Files\134220r01.dwg Aug 21, 2025 Jake.Senne
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

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MATCHLINE STA 108+00 SEE SHEET IR13

MATCHLINE STA 113+00 SEE SHEET IR15

IRRIGATION LEGEND

SYMBOL	EQUIPMENT	SYMBOL	EQUIPMENT
M	METER		TREE LATERAL LINE
C	CONTROLLER		SHRUB LATERAL LINE
C*	CONTROLLER (GSI)		SLEEVE
B	BACKFLOW PREVENTER	NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
	GATE VALVE	NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	PRESSURE REGULATOR		END CAP
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER	S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
NOT SHOWN	FILTER	PS xx.xx	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE
	MAIN LINE		
	REINFORCED MAIN LINE		
	TREE SUB-MAIN LINE		
	SHRUB SUB-MAIN LINE		

0 20' 40'
SCALE: 1"=20'

EXIST. R/W
NEW SLOPE ESMT.
NEW TCE
DRIVEWAY 16
DRIVEWAY 17
OLD SPANISH TRAIL
NEW R/W
EXIST. R/W
22ND STREET CONST. ℄
SIGHT VISIBILITY TRIANGLE, TYP.
22ND STREET
CLEAR ZONE, TYP.
NEW SLOPE ESMT.
NEW TCE
EXIST. R/W

S-22 1.5 2.2 | S-21 1.5 3.0 | S-20 1.5 2.8 | I-10 1.5 2.6 | S-23 1.5 3.6 | S-24 1.5 0.9

PS 14.01 PS 14.02 PS 14.03 PS 14.04 PS 14.05 PS 14.06 PS 14.07 PS 14.08 PS 14.09 PS 14.10 PS 14.11 PS 14.12 PS 14.13 PS 14.14 PS 14.15 PS 14.16 PS 14.17 PS 14.18 PS 14.19 PS 14.20 PS 14.21 PS 14.22 PS 14.23 PS 14.24 PS 14.25 PS 14.26 PS 14.27

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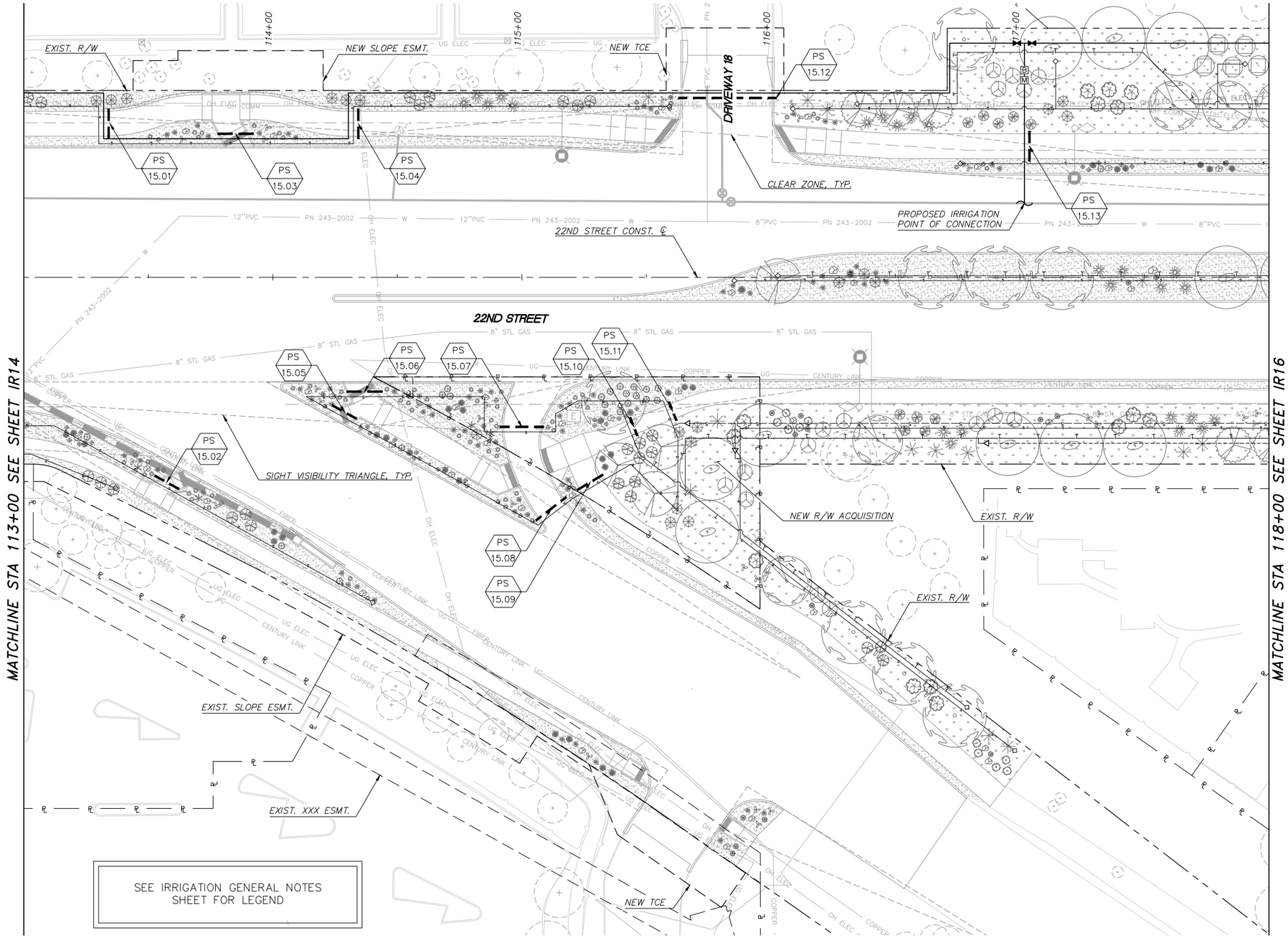
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004



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NO.	DATE	REVISION	BY	CHKD.	APPR.

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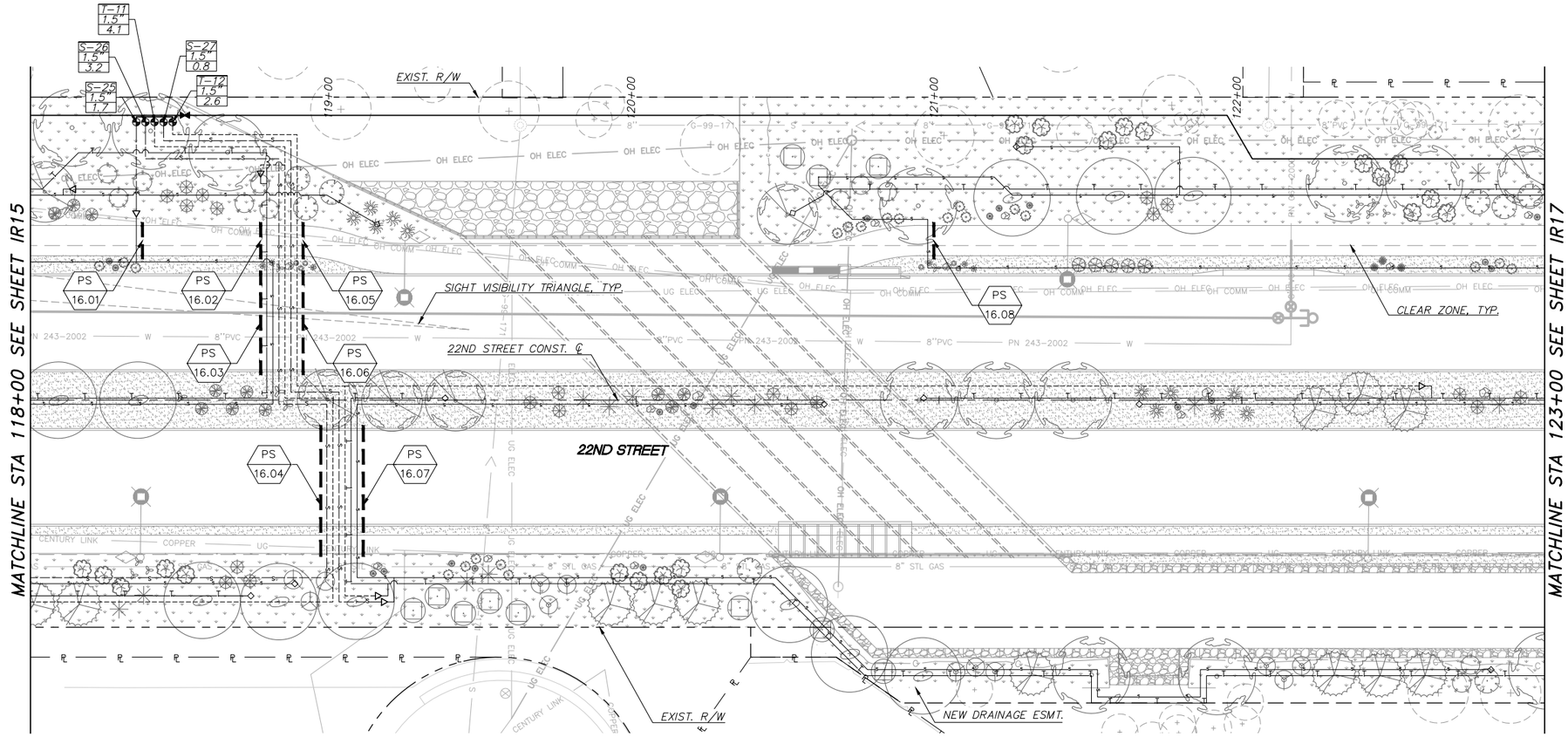
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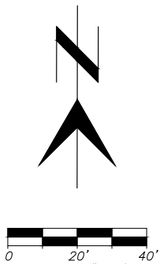
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE	PLAN NO.
E. HUGHES AUG 20 25	J. SENNE AUG 20 25	R. FIELD AUG 20 25	H: 1"=20' V: N/A	I-2025-004





IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

K:\TUC_Roadway\098134201_CO1 22nd Street\CADD\Sheet Files\134220r01.dwg Aug 21, 2025 Jake.Senne
XREFS: x134220m_3814 x134220lt x134220ms x134220mp x134220mw x134220ew x134220ms x134220ew-n x134220ew-s x134220ew-n x134220ltestcls-20 scale x134220ult-e x134220ult-n x134220elg x134220lps x134220r

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NO.	DATE	REVISION	BY	CHKD.	APPR.

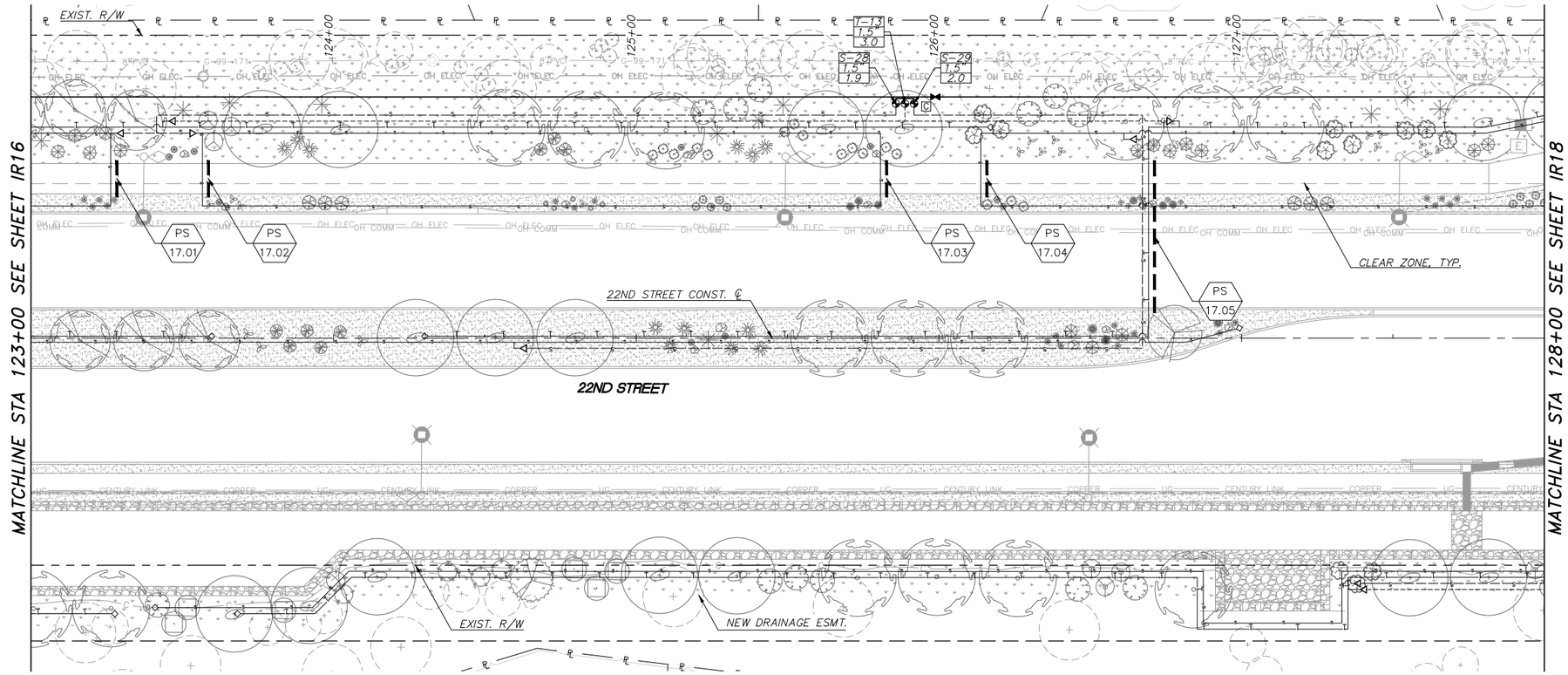
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004



IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-1 / XX / GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS / XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

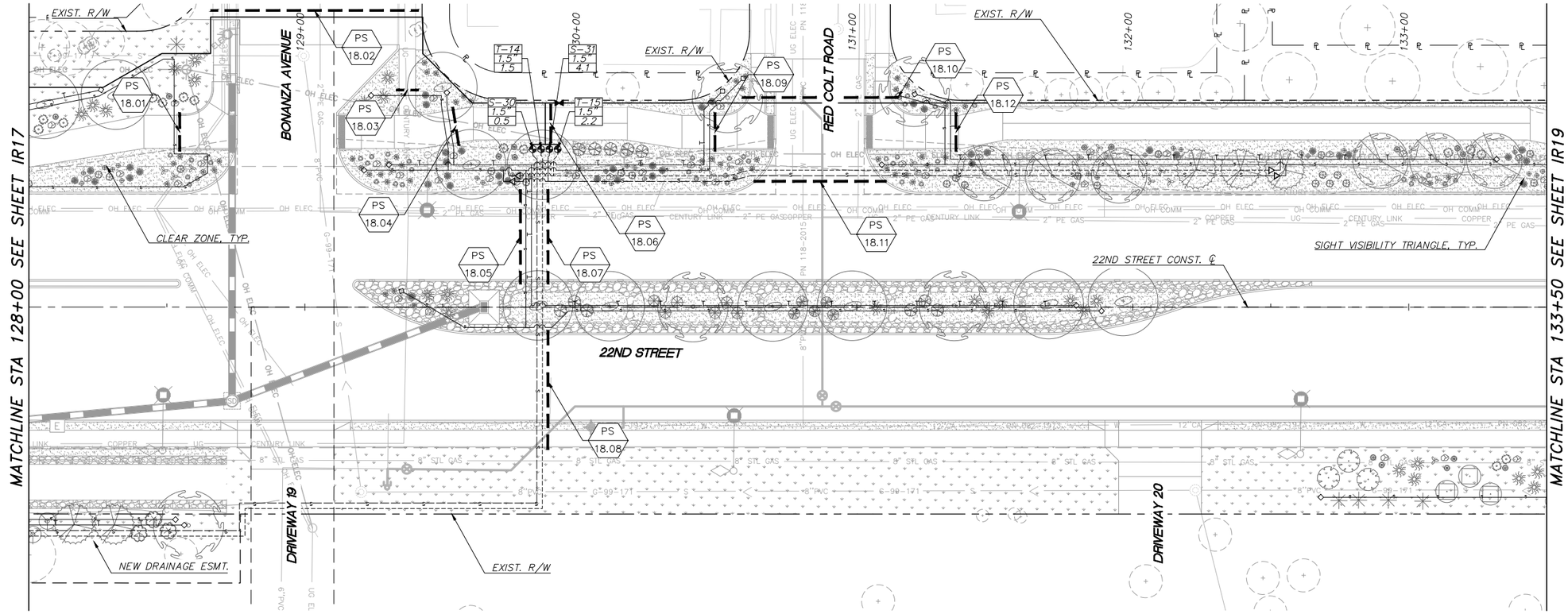
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

IR17 OF IR26

247 OF 316



0 20' 40'
SCALE: 1"=20'

IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-T / XX / GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS / XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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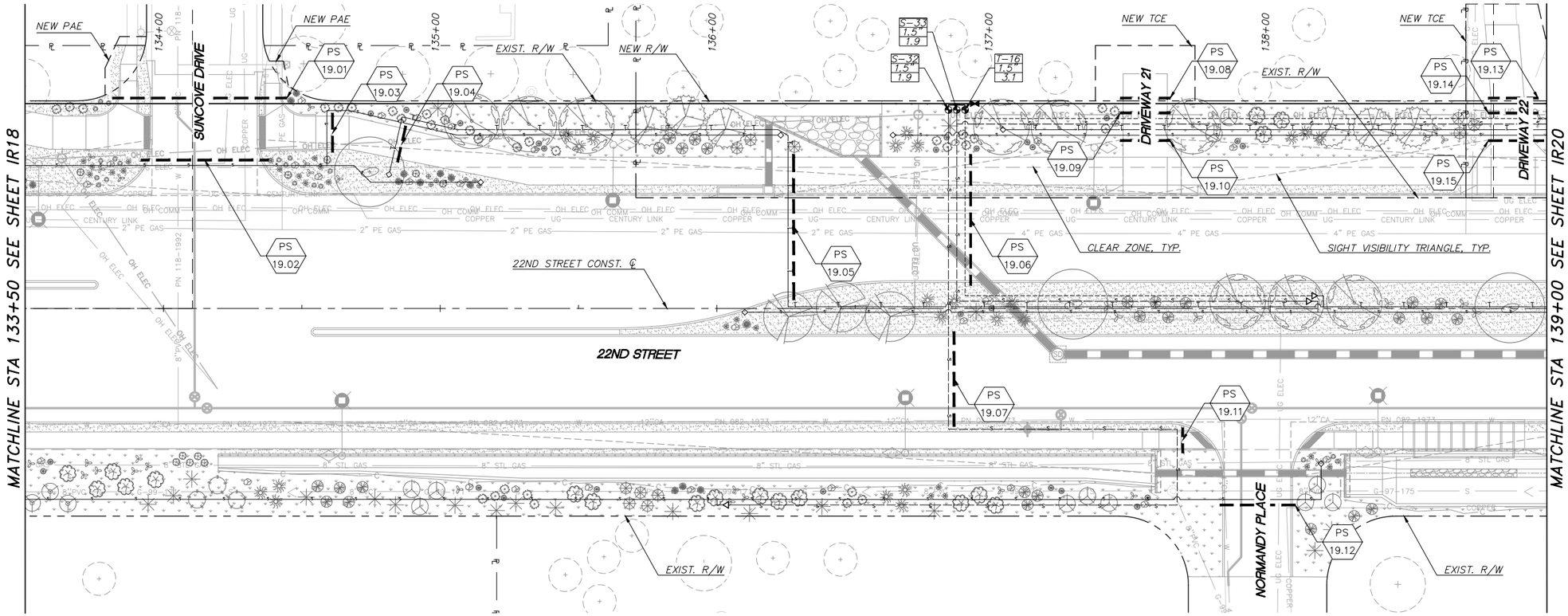
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

K:\TUC_Roadway\098134201_2017 22nd Street\CADD\Sheet Files\134220r01.dwg Aug 21, 2025 Jake.Senne
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IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
△	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
———	MAIN LINE
- - - - - - -	TREE SUB-MAIN LINE
——— S ———	SHRUB SUB-MAIN LINE
——— T ———	TREE LATERAL LINE
——— S ———	SHRUB LATERAL LINE
▬▬▬▬▬	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
———◇	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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NO.	DATE	REVISION	BY	CHKD.	APPR.

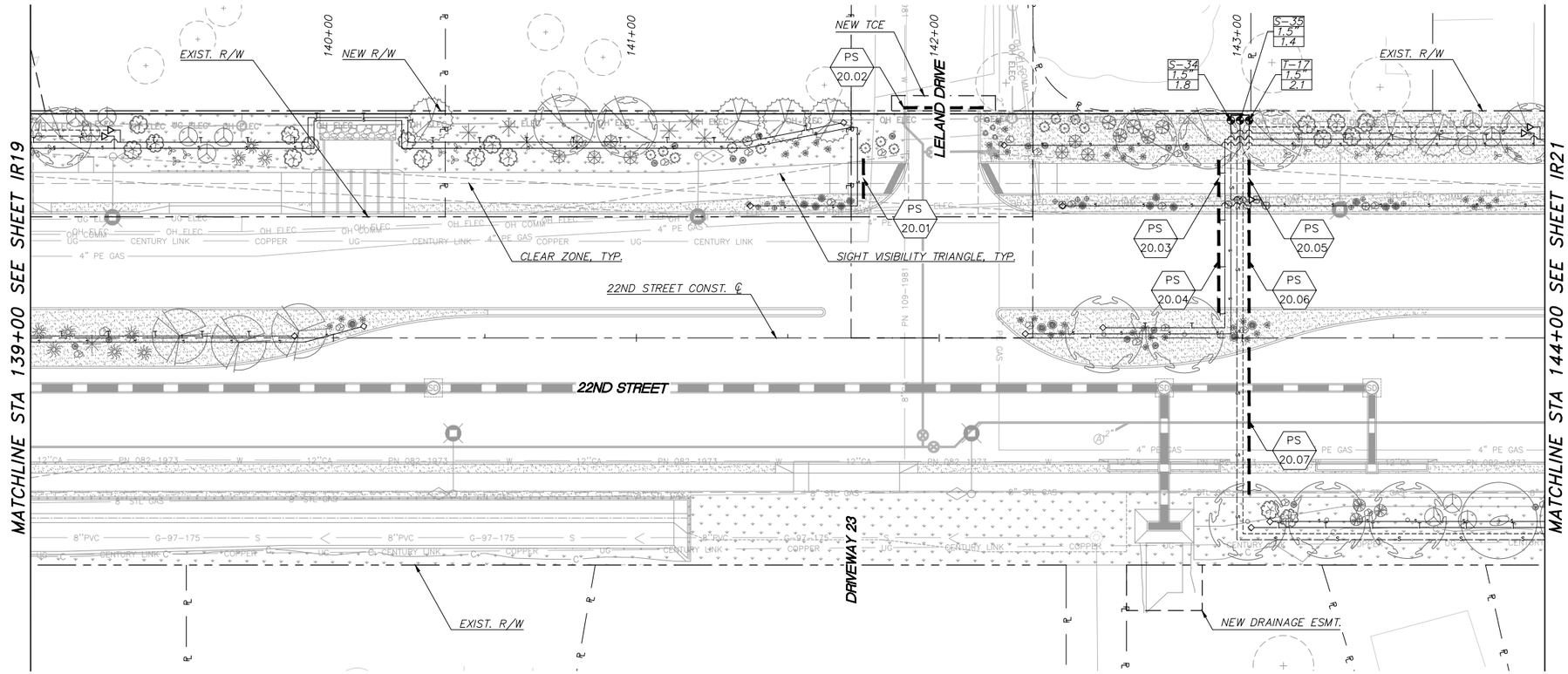
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE	PLAN NO.
E. HUGHES AUG 20 25	J. SENNE AUG 20 25	R. FIELD AUG 20 25	H: 1"=20' V: N/A	I-2025-004



IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-1 XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

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NO.	DATE	REVISION	BY	CHKD.	APPR.

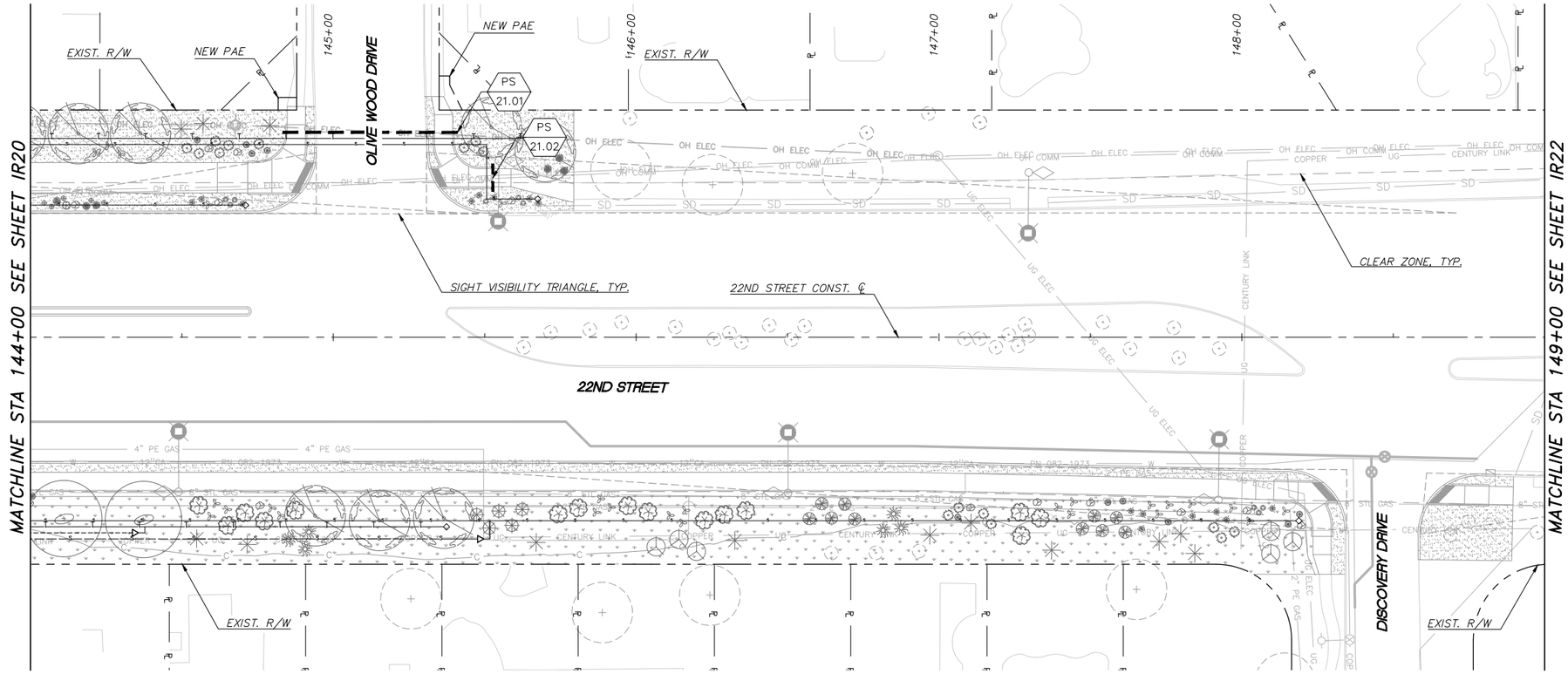
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NOT FOR CONSTRUCTION

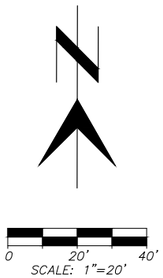
DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

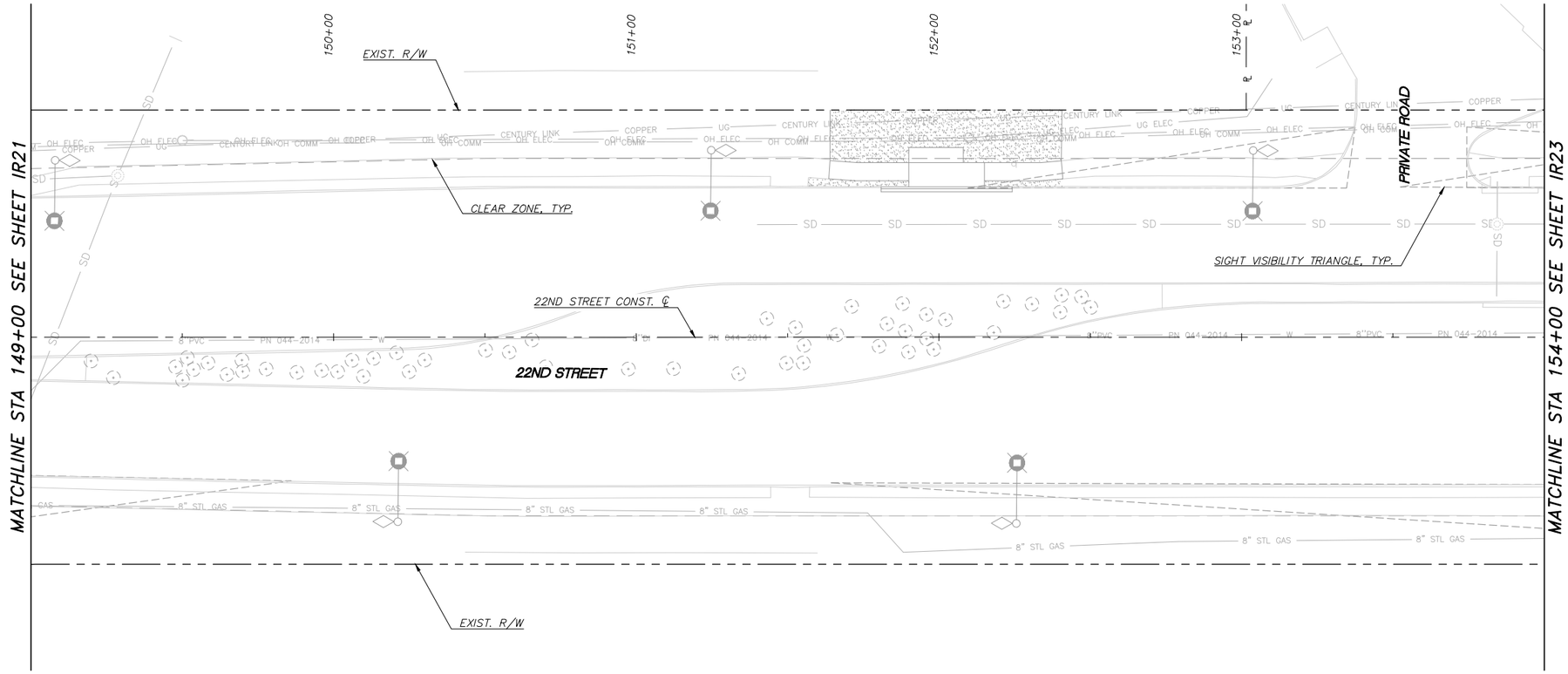




IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
S	SHRUB SUB-MAIN LINE
T	TREE LATERAL LINE
S	SHRUB LATERAL LINE
	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-T XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

K:\TUC_Roadway\096134201_2017 22nd Street\CADD\Sheet Files\134220r01.dwg Aug 21, 2025 Jake.Senne
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IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
	MAIN LINE
	TREE SUB-MAIN LINE
	SHRUB SUB-MAIN LINE
	TREE LATERAL LINE
	SHRUB LATERAL LINE
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NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
	END CAP
S-T XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

NO IRRIGATION PLAN THIS SHEET

K:\TUC_Roadway\098134201_2017 22nd Street\CADD\Sheet Files\134220r01.dwg Aug 21, 2025 Jake.Senne
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NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004



0 20' 40'
SCALE: 1"=20'

IRRIGATION LEGEND

SYMBOL	EQUIPMENT
M	METER
C	CONTROLLER
B	BACKFLOW PREVENTER
MV	MASTER VALVE
FS	FLOW SENSOR W/ FLOW SENSOR CABLE
	GATE VALVE
△	PRESSURE REGULATOR
	DRIP REMOTE CONTROL VALVE ASSEMBLY W/ FILTER
NOT SHOWN	FILTER
———	MAIN LINE
- - - - - - -	TREE SUB-MAIN LINE
——— S ———	SHRUB SUB-MAIN LINE
——— T ———	TREE LATERAL LINE
——— S ———	SHRUB LATERAL LINE
▬▬▬▬	SLEEVE
NOT SHOWN	MANIFOLD ASSEMBLY MULTI-PORT; (.5 GPH, 1 GPH, & 2 GPH)
NOT SHOWN	EMITTER ASSEMBLY MULTI-PORT; (1 GPH & 2 GPH)
———◇	END CAP
S-T XX GPM	VALVE NUMBER VALVE SIZE GALLONS PER MINUTE
PS XX.XX	PIPE SLEEVE LABEL; REFER TO PIPE SLEEVE SUMMARY TABLE

NO IRRIGATION PLAN THIS SHEET

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NO.	DATE	REVISION	BY	CHKD.	APPR.

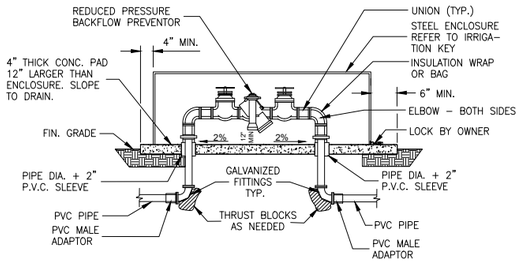
PRELIMINARY
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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION PLAN SHEETS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: 1"=20' V: N/A
PLAN NO. I-2025-004

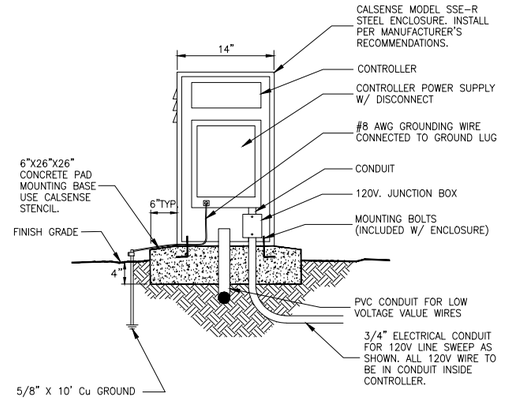


NOTE: INSTALL PER C.O.T. WATER STANDARD 1802

BACKFLOW PREVENTION UNIT
NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	BACKFLOW PREVENTION UNIT	412
		SHEET 1 OF 1

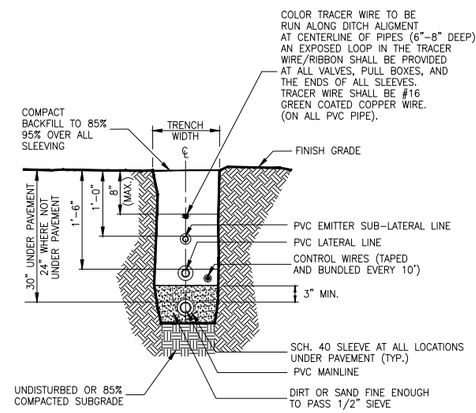
1 *BACKFLOW PREVENTION UNIT* NTS



CONTROLLER ENCLOSURE
NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	LANDSCAPE IRRIGATION SYSTEM: CONTROLLER ENCLOSURE	413
		SHEET 1 OF 1

2 *CONTROLLER ENCLOSURE (COT)* NTS

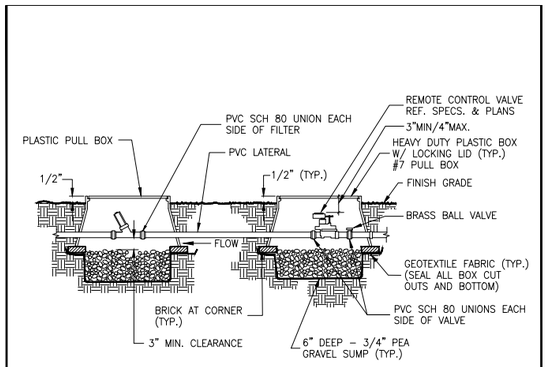


NOTES:
1. ALL PIPES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. NO PIPE OR WIRE SHALL BE LOCATED UNDER PAVING UNLESS IT IS SLEEVED.

IRRIGATION TRENCHING
NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	IRRIGATION TRENCHING	414
		SHEET 1 OF 1

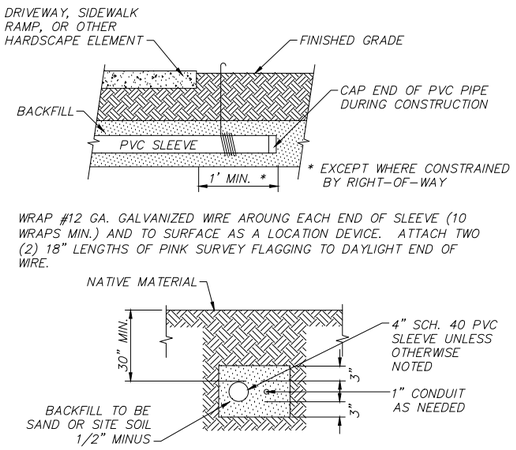
3 *IRRIGATION TRENCHING* NTS



REMOTE CONTROL VALVE - DRIP
NTS

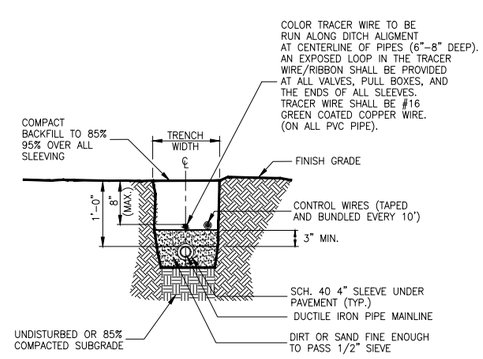
ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	REMOTE CONTROL VALVE AND FILTER ASSEMBLY	416
		SHEET 1 OF 1

4 *REMOTE CONTROL VALVE AND FILTER ASSEMBLY* NTS



NOTES:
1. MINIMUM SLEEVE SIZE SHALL BE 4" OR TWO TIMES THE TOTAL DIAMETER OF THE ENCLOSED PIPE(S) BEING SLEEVED. REFER TO THE TABLE ON THE IRRIGATION NOTES SHEET FOR INDIVIDUAL PIPE SLEEVE SIZING.

5 *IRRIGATION PIPE SLEEVES* NTS



NOTES:
1. ALL PIPES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. MAINTAIN MIN. 12" CLEARANCE BETWEEN BOTTOM OF PVC SLEEVE AND TOP OF EXISTING SEWER LINE.

6 *IRRIGATION PIPE SLEEVE AT SEWER LINE CROSSINGS* NTS

NO.	DATE	REVISION	BY	CHKD.	APPR.

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

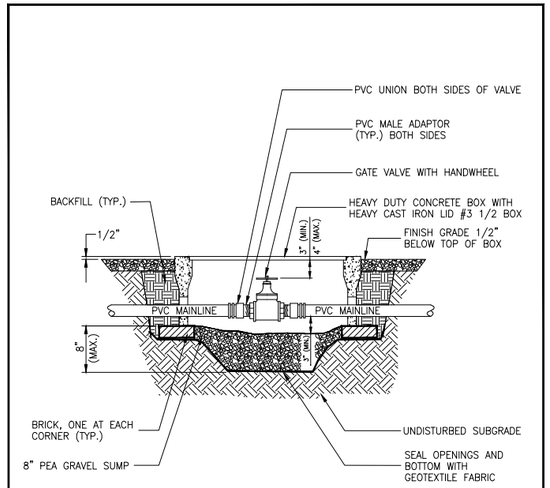
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION DETAILS - 22ND STREET

CITY OF TUCSON

DRWN. BY E. HUGHES AUG 20 25
CHKD. BY J. SENNE AUG 20 25
APPR. BY R. FIELD AUG 20 25
SCALE: H: N/A V: N/A
PLAN NO. I-2025-004

IR24 OF IR26
254 OF 316

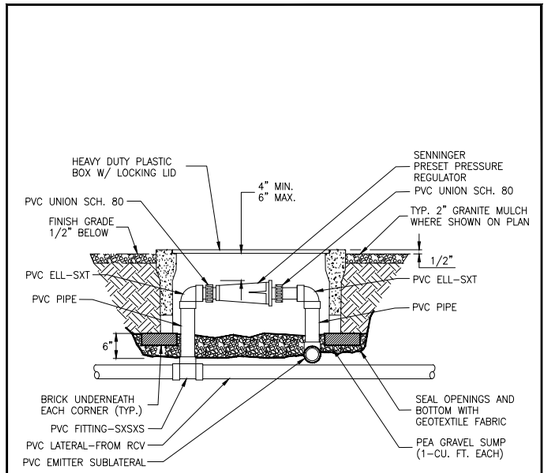
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GATE (ISOLATION) VALVE
NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	GATE (ISOLATION) VALVE	417
		SHEET 1 OF 1

7 GATE VAVLE
NTS

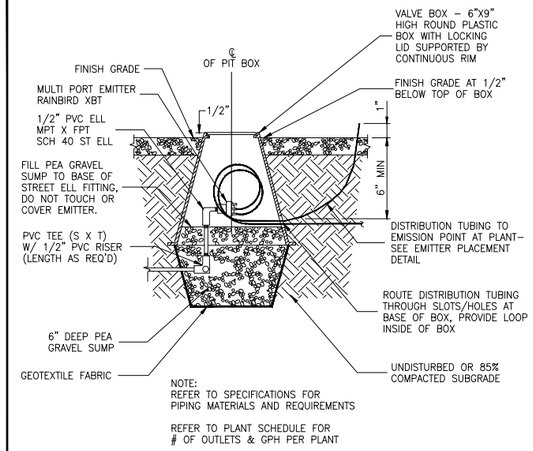


ALL PIPE SCH. 40 EXCEPT SCH. 80 UNIONS

PRESSURE REGULATOR RISER
NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	PRESSURE REGULATOR RISER	418
		SHEET 1 OF 1

8 PRESSURE REGULATOR
NTS



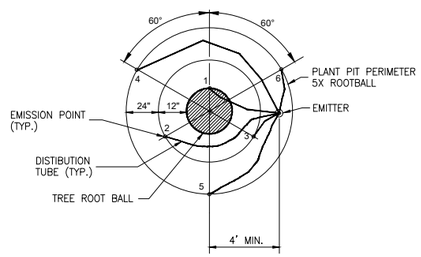
NOTE:
REFER TO SPECIFICATIONS FOR PIPING MATERIALS AND REQUIREMENTS

REFER TO PLANT SCHEDULE FOR # OF OUTLETS & GPH PER PLANT

MULTI-OUTLET EMITTER ON PVC LATERAL
NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	MULTI-OUTLET EMITTER ON PVC LATERAL	419
		SHEET 1 OF 1

9 MULTI-OUTLET EMITTER ASSEMBLY
NTS

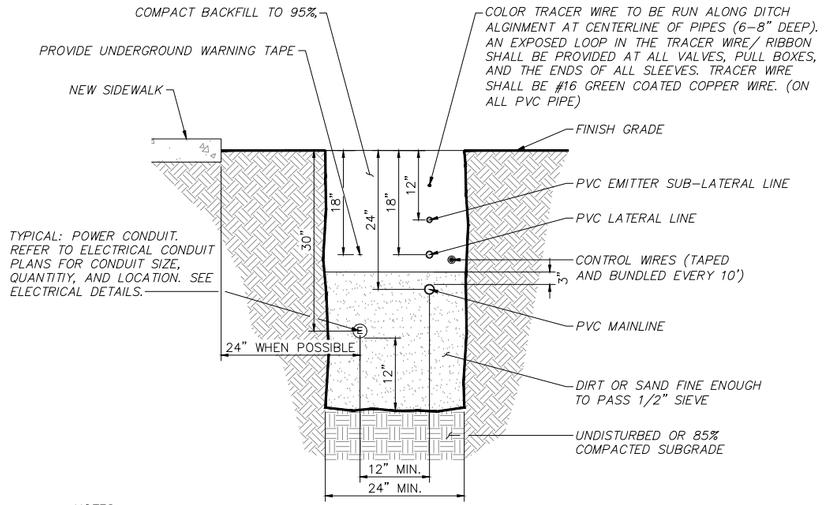


NOTES:
1. MAXIMUM LENGTH OF ONE DISTRIBUTION TUBE SHALL BE 15'.
2. EMISSION POINTS ARE NUMBERED IN ORDER OF PLACEMENT (1-6)
3. ALWAYS PLACE NUMBER ONE EMITTER UPHILL OF TREE.

EMITTER LOCATION DETAIL-TREES
NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	EMITTER LOCATION DETAIL-TREES	420
		SHEET 1 OF 1

10 EMITTER LOCATION DETAIL - TREES
NTS



NOTES:
1. MAINTAIN 12" HORIZONTAL SEPARATION BETWEEN IRRIGATION AND ELECTRICAL LINES.
2. ELECTRICAL LINE TO MAINTAIN 24" CLEARANCE FROM EDGE OF SIDEWALK WHEN POSSIBLE. IN SCENARIOS WITH LIMITED SPACE, THE ELECTRICAL LINE MAY ENCROACH INTO THE 24" CLEARANCE, UP TO 12" UNDER THE NEW SIDEWALK.
3. ALL PIPES AND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. NO PIPE OR WIRE SHALL BE LOCATED UNDER PAVING UNLESS IT IS SLEEVED.

11 JOINT TRENCH DETAIL
NTS

NTS

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NO.	DATE	REVISION	BY	CHKD.	APPR.

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NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION DETAILS - 22ND STREET

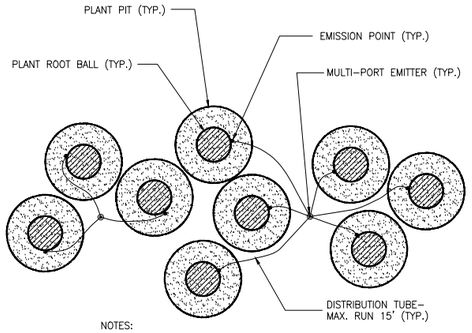
CITY OF TUCSON

DRWN. BY	CHKD. BY	APPR. BY	SCALE
E. HUGHES AUG 20 25	J. SENNE AUG 20 25	R. FIELD AUG 20 25	H: N/A V: N/A

PLAN NO. I-2025-004

IR25 OF IR26

255 OF 316



NOTES:

1. MORE THAN ONE SHRUB MAY BE WATERED FROM A SINGLE MULTI-PORT EMITTER.
2. MAXIMUM LENGTH OF ONE DISTRIBUTION TUBE SHALL BE 15'
3. IF ONLY ONE DISTRIBUTION PER PLANT IS REQUIRED, PLACE EMISSION POINT ON TOP OF ROOT BALL OR UPHILL OF PLANT.
4. IF MORE THAN ONE DISTRIBUTION TUBE PER SHRUB IS REQUIRED, SPACE EMISSION POINTS EVENLY WITHIN PLANT PIT.

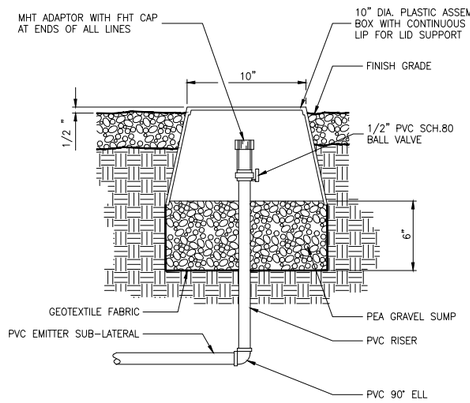
EMITTER LOCATION DETAIL-SHRUBS

NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	EMITTER LOCATION DETAIL-SHRUBS	421
		SHEET 1 OF 1

12 *EMITTER LOCATION DETAIL – SHRUBS*

NTS



LATERAL END CAP

NTS

ISSUED:	STANDARD DETAIL	DETAIL NO.
REVISED:	LATERAL END CAP	422
		SHEET 1 OF 1

13 *LATERAL END CAP*

NTS

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DEPARTMENT OF TRANSPORTATION AND MOBILITY/ENGINEERING DIVISION

22ND STREET - CAMINO SECO TO HOUGHTON ROAD
ROAD WIDENING PROJECT
IRRIGATION DETAILS - 22ND STREET

CITY OF TUCSON

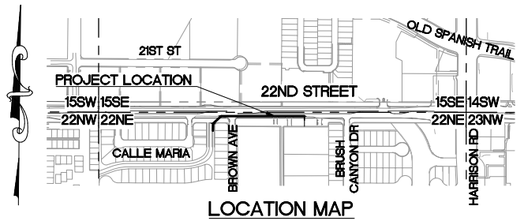
DRWN. BY E. HUGHES	CHKD. BY J. SENNE	APPR. BY R. FIELD
AUG 20 25	AUG 20 25	AUG 20 25

SCALE: H: N/A V: N/A

PLAN NO. I-2025-004

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT

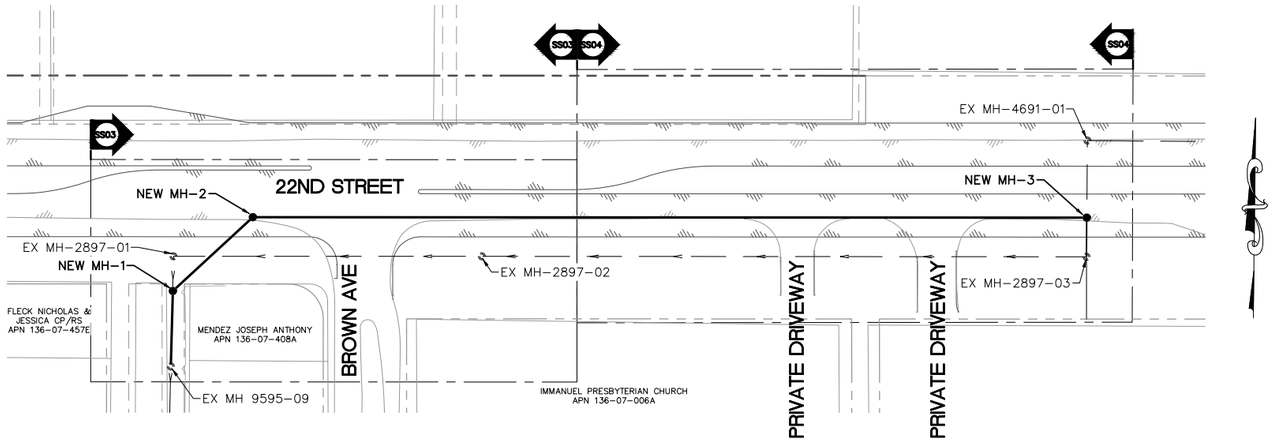
PUBLIC SEWER IMPROVEMENT PLAN
22ND STREET - CAMINO SECO TO HOUGHTON ROAD
SANITARY SEWER RELOCATION (BROWN AVE)
PROJECT G-YYYY-NNN



LOCATION MAP
1" = 500'

A PORTION OF NE 1/4 OF SECTION 22
T-14-S, R-15-E, G & SRM
PIMA COUNTY, ARIZONA
N440520.6646' E1046733.6904'

SHEET INDEX		
SEWER SHEET NUMBER	SHEET NUMBER	SHEET TITLE
SS01	257	COVER SHEET
SS02	258	LEGEND AND GENERAL NOTES
SS03	259	SEWER PLAN AND PROFILE
SS04	260	SEWER PLAN AND PROFILE
SS05	261	DETAILS
SS06	262	PCRWRD DETAILS
SS07	263	PCRWRD DETAILS



PROJECT MAP
1"=50'

ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
3300 E. SUNRISE DR.
SUITE 130
TUCSON, AZ 85718
CONTACT: ALEJANDRA FRAIJO ARCE, P.E.
TEL: (520)615-9191

UTILITY OWNER
REGIONAL WASTEWATER RECLAMATION
DEPARTMENT-CONVEYANCE DIVISION
3233 N. DODGE BLVD.
TUCSON, AZ 85716
CONTACT: STEVE RICHEY
TEL: (520)349-0376

UTILITY NOTIFICATION

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES. THE CONFLICTS SHALL BE RESOLVED AS SPECIFIED IN THE CONSTRUCTION NOTES AND/OR NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORESEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM, AND THE DESIGN ENGINEER.

		CONTACTED	REPLIED
TUCSON WATER PHONE NUMBER (520)791-5164	COMPANY REPRESENTATIVE	DATE	DATE
LUMEN PHONE NUMBER (520)891-1726	COMPANY REPRESENTATIVE	DATE	DATE
TUCSON ELECTRIC POWER PHONE NUMBER (520)918-8300	COMPANY REPRESENTATIVE	DATE	DATE
COX PHONE NUMBER (520)909-3108	COMPANY REPRESENTATIVE	DATE	DATE
SOUTHWEST GAS PHONE NUMBER (877)860-6020	COMPANY REPRESENTATIVE	DATE	DATE

APPROVED:

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT

JACKSON JENKINS — DIRECTOR — DATE

PLANNING AND ENGINEERING DIVISION

JAIME RIVERA, P.E. — DEPUTY DIRECTOR — DATE

CONVEYANCE DIVISION

STEVE RICHEY — DEPUTY DIRECTOR — DATE

RECORD DRAWINGS CERTIFICATION:

I HEREBY CERTIFY THAT THE "AS-BUILT" ANNOTATIONS PROVIDED ON THE DRAWING WERE BASED ON AN AS-BUILT SURVEY CONDUCTED UNDER MY SUPERVISION AND ACCURATELY DEPICTS EXISTING FIELD CONDITIONS TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR — DATE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

No.	REVISIONS	DATE	BY

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3300 East Sunrise Dr. Suite 130
Tucson, Arizona 85705
(520) 615-9191

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PIMA COUNTY WASTEWATER RECLAMATION
PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
201 N STONE AVE., 8TH FLOOR TUCSON, ARIZONA 85701
(520) 724-6500

22ND STREET SANITARY SEWER RELOCATION (BROWN AVE)
COVER SHEET

PCRWRD NO.	G-YYYY-NNN
KHA PROJECT	098134220
DATE	08/2025

SHEET NUMBER
257 OF 316

SEWER SHEET NUMBER
SS01 OF SS07 PCRWRD NO. G-YYYY-NNN

G-YYYY-NNN

Plotted By:Batya.Salomon Date:August 21, 2025 11:55:38 AM File Path:K:\TUC_Roadway\098134220_COT 22nd Street\CADD\Wastewater\Plansheets\COVER SHEET.dwg

LEGEND

EXISTING	PROPOSED	
		SANITARY SEWER MANHOLE
		SANITARY SEWER AND FLOW DIRECTION
		RIGHT OF WAY
		RIGHT OF WAY EASEMENT
PL PL		PROPERTY LINE
		SECTION LINE
		EDGE OF PAVEMENT
		GRADE IN PROFILE
X" MAT GAS		GAS
UG ELEC	UG ELEC	UNDERGROUND ELECTRIC
UG UTIL COMM		UNDERGROUND COMMUNICATIONS
		UNDERGROUND STREET LIGHT ELECTRIC
		LIGHT POLE
		STORM DRAIN
		CATCH BASIN
		RIPRAP
		SIGN

GENERAL SEWER NOTES

1. ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT ENGINEERING DESIGN STANDARDS 2022 (EDS 2022) AND THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2022 (SSDC 2022). SAID DOCUMENTS ARE AVAILABLE THROUGH THE PCRWRD WEBSITE. WWW.PIMA.GOV/WASTEWATERRECLAMATION).
2. ONLY APPROVED PLANS SHALL BE USED FOR THE CONSTRUCTION OF PUBLIC SANITARY SEWER FACILITIES. APPROVED PLANS REQUIRING DESIGN REVISIONS SHALL BE RESUBMITTED TO PIMA COUNTY FOR REVIEW AND RE-APPROVAL PRIOR TO START OF THE REVISED SEWER WORK.
3. SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) OR ITS DELEGATED AUTHORITY HAS ISSUED A CONSTRUCTION AUTHORIZATION FOR THIS PROJECT; (B) THE CONTRACTOR HAS OBTAINED A PCRWRD PUBLIC SEWER CONSTRUCTION PERMIT (CONTACT THE PCRWRD PERMITS SECTION AT (520) 724-6649 FOR PERMIT APPLICATION REQUIREMENTS); (C) THE CONTRACTOR'S FLOW MANAGEMENT PLAN HAS BEEN SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING AND APPROVED BY PCRWRD FIELD ENGINEERING; AND (D) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR OR SCHEDULED AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO COMMENCING WITH SEWER CONSTRUCTION.
4. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO THE PCRWRD OPERATIONS CONTROL CENTER (OCC) AT (520) 724-6500: ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE DROPPING OF DEBRIS INTO A PUBLIC SANITARY SEWER MANHOLE. A PCRWRD REPRESENTATIVE WILL BE DISPATCHED TO THE SITE. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CONTAIN A SANITARY SEWAGE OVERFLOW (SSO). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, MITIGATE THE RELEASE OF SEWAGE, DISINFECT THE RELEASE AREAS, AND ANY REGULATORY PENALTIES LEVIED ON PCRWRD FOR SEWAGE ENTERING A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE PCRWRD FIELD REPRESENTATIVE.
5. STORM WATER AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY INSTALLED TO PROTECT PCRWRD MANHOLES AT THE BEGINNING OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTANTLY MAINTAIN STORM WATER AND SEDIMENT CONTROL MEASURES THAT PROTECT PCRWRD FACILITIES UNDER ALL CONDITIONS FOR THE DURATION OF THE PROJECT. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ALLOW STORM WATER, SEDIMENT, OR POTENTIAL POLLUTANTS FROM A CONSTRUCTION SITE TO ENTER A PCRWRD MANHOLE. THE CONTRACTOR SHALL ENSURE THAT THEIR FLOW MANAGEMENT OPERATIONS INCLUDE CONTROLS TO PREVENT ANY INTRODUCTION OF STORM WATER, SEDIMENT, OR POLLUTANTS INTO THE PUBLIC SANITARY SEWER SYSTEM. FAILURE TO CONFORM TO THESE REQUIREMENTS SHALL RESULT IN CANCELLATION OF THE SEWER CONSTRUCTION PERMIT.
6. SPECIAL CARE SHALL BE TAKEN TO ENSURE DESIGN SLOPES ARE MAINTAINED. SEWERS CONSTRUCTED AT INSUFFICIENT SLOPES WILL NOT BE ACCEPTED BY PCRWRD FIELD ENGINEERING AND/OR ADEQ. CORRECTIVE ACTION, INCLUDING RE-CONSTRUCTION OF THE SEWER(S), WILL BE AT THE SOLE EXPENSE OF THE PROJECT OWNER/CONTRACTOR.
7. THE CONTRACTOR SHALL ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL FRAMES AND COVER ADJUSTMENTS SHALL BE IN ACCORDANCE WITH PCRWRD SSDC 2016, DETAIL NOS. RWRD 211, 212, 304 OR 305 (AS APPLICABLE). THE CONTRACTOR SHALL PROTECT THE BENCH AND FLOW CHANNELS WITH A COVER PER PCRWRD SSDC 2016, DETAIL NO. RWRD 306. PRIOR TO COMMENCING ANY WORK TO THE MANHOLE AND REMOVE THE COVER AFTER ALL WORK IS COMPLETED. THE CONTRACTOR SHALL ENSURE THAT FRAMES AND COVERS ARE CLEAN AND FREE FROM ANY AND ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.) AND THAT ALL VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS, AS APPROVED BY THE PCRWRD FIELD ENGINEER. EXISTING FRAMES AND/OR COVERS THAT ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED SHALL BE REPLACED WITH A NEW FRAME AND COVER IN ACCORDANCE WITH PCRWRD SSDC 2016, DETAIL NO. RWRD 213 – 218. COSTS ASSOCIATED WITH EXISTING FRAMES AND COVERS THAT ARE LOST OR DAMAGED DUE TO THE CONTRACTOR'S SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES

1. ALL ROADWAY-RELATED WORK LOCATED WITHIN THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) RIGHT-OF-WAY SHALL CONFORM TO THE 2021 ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE ADOT 2012 CONSTRUCTION DRAWINGS (C-SERIES), AND THE CURRENT SIGNING AND MARKING STANDARD DRAWINGS (SMS-SERIES), INCLUDING ALL CURRENT REVISIONS. THE ABOVE STANDARDS MAY BE MODIFIED AND/OR SUPPLEMENTED BY THE REQUIREMENTS OF THESE PLANS.
2. APPROVED ENCROACHMENT PERMIT(S) GRANTED BY ADOT ARE REQUIRED PRIOR TO ANY WORK IN THE ADOT RIGHT-OF-WAY.
3. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 701 OF THE ADOT STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER BEFORE BEGINNING CONSTRUCTION.
4. CONTRACTOR SHALL ADHERE TO ALL RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT. SHOULD ANY CONFLICTS ARISE BETWEEN THE SOILS INVESTIGATION REPORT AND THESE GRADING PLANS, THE CIVIL ENGINEER SHALL BE CONTACTED FOR CLARIFICATION.

4.1. THE GEOTECHNICAL REPORT, DATED NOVEMBER 14, 2024, WAS PREPARED BY NINYO AND MOORE. THE GEOTECHNICAL REPORT DOES NOT INTEND TO IMPLY THAT THE CHARACTER OF MATERIALS SHOWN IN THE LOGS IS REPRESENTATIVE OF THE ENTIRE PROJECT SITE. SOIL BORINGS ARE INDICATIVE OF THE SOIL CHARACTERISTICS ONLY AT THE LOCATIONS AND TO THE DEPTHS WHERE BORINGS WERE PERFORMED.

5. EXISTING ABOVE AND BELOW GROUND UTILITIES HAVE BEEN DELINEATED ON THESE PLANS BASED ON AS-BUILT DRAWINGS AND THEREFORE THE ENGINEER MAKES NO GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE UTILITY LOCATIONS OR OF THE EXISTENCE OR NONEXISTENCE OF ANY UTILITY OR UNDERGROUND STRUCTURES SHOWN. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE ORGANIZATIONS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEANS NECESSARY TO PROTECT ANY UTILITY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. CONTACT ARIZONA 811 AT 1-800-782-5348 TWO (2) FULL WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

5.1. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE OR UNDERGROUND UTILITIES, INCLUDING THOSE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY THE AGENCY PROJECT MANAGER AND THE ENGINEER IN WRITING OF ANY UTILITY LOCATIONS DISCOVERED DIFFERING FROM THE PLAN INFORMATION IN A TIMELY MANNER.

6. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE ARIZONA REGISTERED LAND SURVEYOR PROVIDING THE CONSTRUCTION LAYOUT TO VERIFY THE BENCHMARKS AND COMPARE THE SITE CONDITIONS WITH THE PLANS. THE CONTRACTOR SHALL NOTIFY THE COUNTY'S REPRESENTATIVE OF ANY DISCREPANCIES OBSERVED SHOULD ANY BENCHMARK, GRADE, OR DESIGN INDICATED ON THE PLANS BE SUSPECT. THE COUNTY'S REPRESENTATIVE SHALL BE NOTIFIED OF SAID BENCHMARK, GRADE, OR DESIGN PROBLEM AT LEAST TWENTY FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN IN THE AFFECTED AREA.
8. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. SHOULD CONDITIONS EXIST WHICH ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE COUNTY'S REPRESENTATIVE SHALL BE NOTIFIED BEFORE PROCEEDING WITH THE WORK.
9. ALL ELEVATIONS, ALIGNMENTS, AND DISTANCES GIVEN SHALL BE VERIFIED BY AN ARIZONA REGISTERED LAND SURVEYOR BEFORE CONSTRUCTION.

GENERAL NOTES, CONTINUED

11. THE CONTRACTOR SHALL IMPLEMENT GOOD HOUSEKEEPING FOR STORM WATER POLLUTION PREVENTION PRACTICES ON-SITE DURING THE COURSE OF CONSTRUCTION. GOOD HOUSEKEEPING PRACTICES INCLUDE, BUT ARE NOT LIMITED TO: STREET SWEEPING, PERIMETER STOCKPILE CONTROLS, SOLID WASTE MANAGEMENT, EQUIPMENT MAINTENANCE PROCEDURES, CONCRETE WASHOUTS, SPILL PREVENTION, AND STORM DRAIN INLET PROTECTION.
12. REFER TO COT PROJECT NUMBER I=2025-004 FOR ALL AGGREGATE BASE COURSE, ASPHALTIC CONCRETE, AND RESPECTIVE GRADING.
13. REMOVAL OF CACTI AND OTHER NATIVE PLANTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE ARIZONA NATIVE PLANT LAW, SRS CHAPTER 7, JANUARY 1991.
14. ANY EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM PROJECT SITE BY THE CONTRACTOR.

FLOW MANAGEMENT AND BYPASS PUMPING NOTES

1. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER SERVICE TO ALL UPSTREAM AND DOWNSTREAM CONNECTIONS DURING CONSTRUCTION.
2. CONTRACTOR SHALL PREPARE AND SUBMIT A FLOW MANAGEMENT PLAN TO PCRWRD FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. THE PLAN SHALL INCLUDE:

2.1. ANTICIPATED FLOW RATES BASED ON PCRWRD-PROVIDED DATA.

2.2. METHOD(S) OF DIVERSION, INCLUDING BYPASS PUMPING OR GRAVITY BYPASS.

2.3. SEQUENCING OF TIE-INS AND BYPASS OPERATIONS.

2.4. CONTINGENCY PROCEDURES IN CASE OF PUMP FAILURE OR EXCESSIVE INFLOW.

3. BYPASS PUMPING SHALL BE PROVIDED FOR ALL ACTIVE SEWER LINES IMPACTED BY CONSTRUCTION.
4. PUMPING SYSTEMS SHALL BE SIZED TO ACCOMMODATE PEAK WET WEATHER FLOW RATES AS PROVIDED OR CONFIRMED BY PCRWRD.
5. DISCHARGE PIPING SHALL BE SECURED, PROTECTED FROM TRAFFIC AND CONSTRUCTION, AND EQUIPPED WITH LEAK CONTAINMENT MEASURES.
6. CONTRACTOR SHALL PROVIDE 24-HOUR ON-SITE MONITORING WHENEVER BYPASS PUMPING IS IN OPERATION.
7. BYPASS DISCHARGE SHALL BE DIRECTED BACK INTO THE EXISTING SYSTEM WITHOUT CAUSING SURCHARGE, OVERFLOW, OR DAMAGE.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE ADEQ, PCRWRD, AND LOCAL AGENCY REQUIREMENTS REGARDING FLOW MANAGEMENT AND BYPASS PUMPING.

ABBREVIATIONS

ANGLE	∠
PLUS OR MINUS	±
AGGREGATE BASE	AB
ASPHALTIC CONCRETE	AC
ARIZONA DEPARTMENT OF TRANSPORTATION	ACSM
AMERICAN CONGRESS ON SURVEY AND MAPPING	ADOT
AMERICAN SOCIETY FOR TESTING AND MATERIALS	ASTM
BEGINNING POINT	BP
BOOK	BK.
BRASS CAP SURVEY MONUMENT	BCSM
COMPANY/CORPORATION	CO.
CONSTRUCTION CENTERLINE	CST ℄
CORRUGATED METAL PIPE	CMP
CUBIC FEET PER SECOND	CFS
DOCKET	DKT.
EAST OR EASTING	E
END POINT	EP
EXISTING	EX
FOUND	FD
GRADE BREAK	GB
INVERT	INV
LINEAR FEET	LF
MANHOLE	MH
NORTH OR NORTHING	N
OFFSET	OFF
PIMA ASSOCIATION OF GOVERNMENTS	PAG
PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT	PCRWRD
POINT OF VERTICAL CURVE	PVC
POLYVINYL CHLORIDE	PVC
PAVEMENT	PVMT
RECREATIONAL VEHICLE	RV
REGIONAL WASTEWATER RECLAMATION DEPARTMENT	RWRD
REINFORCED CONCRETE BOX CULVERT	R/W
RIGHT OF WAY	RCBC
SECTION	SCT
STANDARD DETAIL	STD.
STATION	STA
STRUCTURAL	STR
TEST HOLE	TH
UNDERGROUND ELECTRIC	UGE
VERTICAL CURVE	VC
100-YEAR STORM	Q_{100}

BASIS OF SURVEY:

REFER TO COT PROJECT NUMBER I-2025-004 FOR BASIS OF SURVEY.

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

ARIZONA811

Call 811 or click Arizona811.com

SEWER SHEET NUMBER
SS02 OF SS07

No.	REVISIONS	DATE	BY

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Tucson, Arizona 85718
(520) 615-9191

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KHA PROJECT	098134220
DATE	08/2025
SCALE	AS SHOWN
DESIGNED BY	AFA
DRAWN BY	AKS/BRS
CHECKED BY	VC

22ND STREET
SANITARY SEWER RELOCATION
(BROWN AVE)

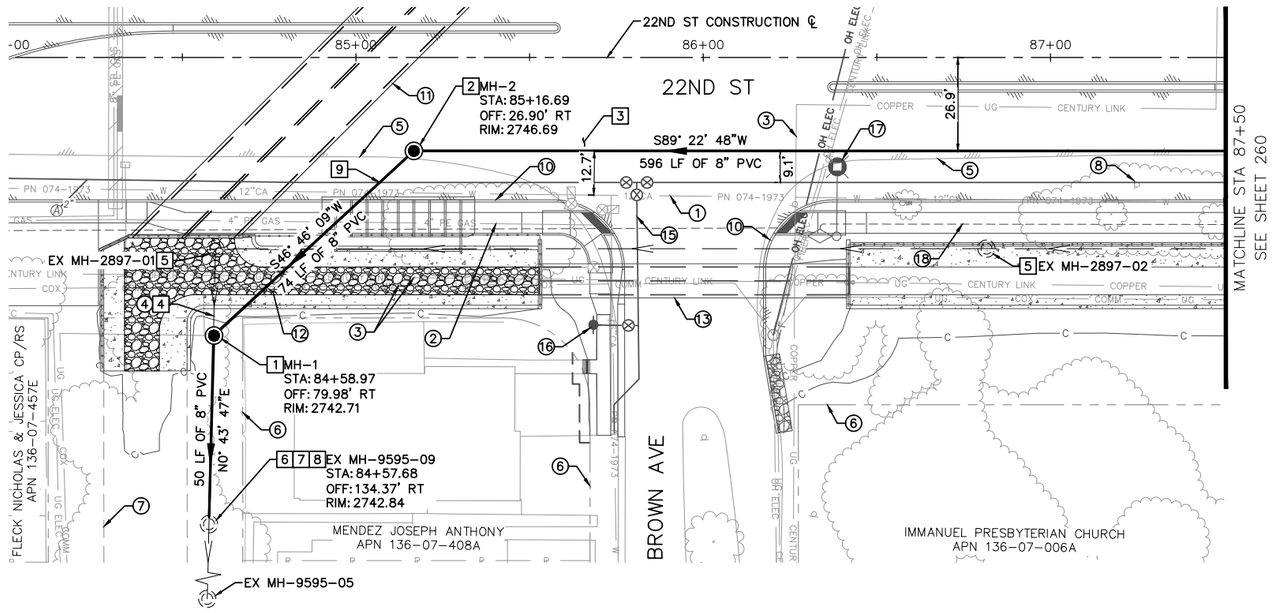
LEGEND AND GENERAL NOTES

PIMA COUNTY
WASTEWATER RECLAMATION
PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
201 N STONE AVE., 8TH FLOOR TUCSON, ARIZONA 85701
(520) 724-6500

PCRWRD NO.
G-YYYY-NNN

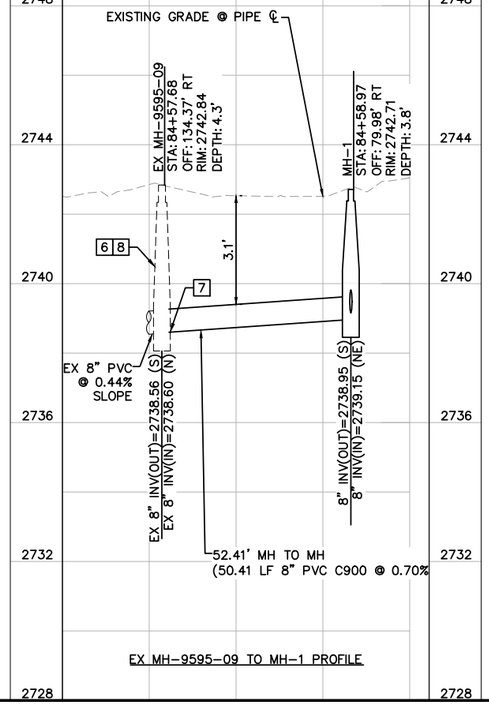
SHEET NUMBER
258 OF 316

Plotted By:Batya.Salamon Date:August 21, 2025 11:55:47 AM File Path:K:\TUC_Roadway\098134220_COT 22nd Street\CADD\Wastewater\Plansheets\GENERAL NOTES.dwg

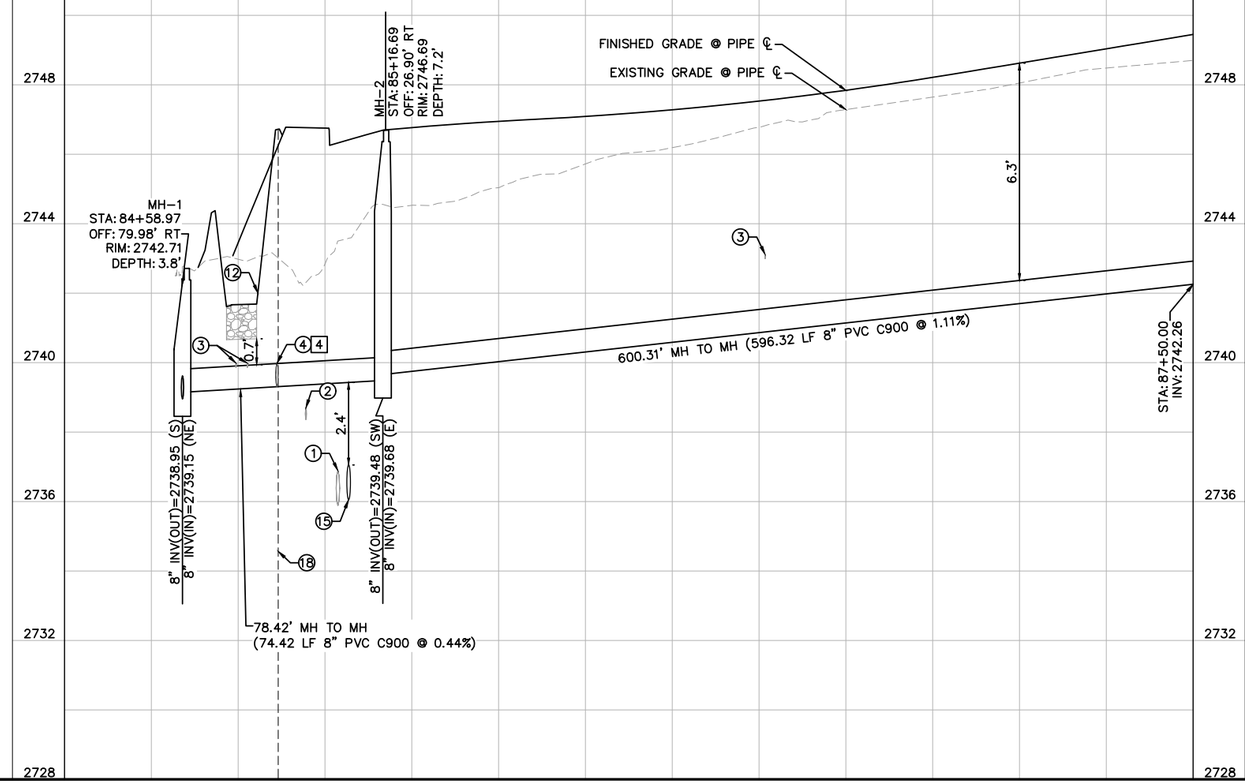


SHEET NOTES:

1. TRENCH FOR NEW SEWER PIPE SHALL BE INSTALLED PER PCRWRD STD. 104.
2. REFER TO COT PROJECT NUMBER I-2025-004 FOR 22ND STREET CONSTRUCTION CENTERLINE HORIZONTAL CONTROL.



EX MH-9595-09 TO MH-1 PROFILE



GRAPHIC SCALE IN FEET
0 10 20 40
HORIZ SCALE 1"=20'
VERT SCALE 1"=2'

CONSTRUCTION NOTES

1. NEW 4.0' MANHOLE PER PCRWRD STD. 207 AND STD. 212. RIM ELEVATION SHOWN IS BASED ON PROPOSED FINISHED GRADE AT CENTERPOINT OF MANHOLE. NEW FRAME AND COVER PER PCRWRD STD. 213.
2. NEW 4.0' MANHOLE PER PCRWRD STD. 205 AND STD. 211. RIM ELEVATION SHOWN IS BASED ON PROPOSED FINISHED GRADE AT CENTERPOINT OF MANHOLE. NEW FRAME AND COVER PER PCRWRD STD. 213.
3. NEW ROADWAY PAVEMENT PER COT PROJECT NUMBER I-2025-004
4. REMOVE EXISTING 8" VCP SEWER PIPE COMPLETELY PER PCRWRD STANDARD SPECIFICATION 3.2.3(G).
5. REMOVE EXISTING MANHOLE COMPLETELY PER PCRWRD STANDARD SPECIFICATION 3.3.3(E).
6. PROTECT EXISTING MANHOLE IN PLACE.
7. CONNECT NEW 8" PVC SEWER PIPE TO MANHOLE BASE AT EXISTING INVERT PER PCRWRD STD. 301.
8. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES FOR THE PROPOSED SEWER, CONTRACTOR SHALL SUBMIT BYPASS PUMPING PLAN TO OWNER FOR APPROVAL. THE APPROVED BYPASS PUMPING SYSTEM SHALL BE IMPLEMENTED TO MAINTAIN UNINTERRUPTED FLOW IN THE EXISTING SEWER, WHICH IS LOCATED DIRECTLY IN THE ALIGNMENT OF THE PROPOSED SEWER.
9. SEWER WATER CROSSING SHALL BE PER PCRWRD STD. 108.

GENERAL NOTES

1. EXISTING 12" CA WATER LINE (TO BE REBUILT AND RELOCATED). REFER TO WATER MODIFICATION PLANS FROM COT PROJECT NUMBER I-2025-004.
2. EXISTING 4" PE GAS LINE (TO BE REBUILT AND RELOCATED BY OTHERS). REFER TO COT PROJECT NUMBER I-2025-004 FOR DEMOLITION DETAILS.
3. EXISTING COMMUNICATION LINE (TO BE REBUILT AND RELOCATED BY OTHERS). REFER TO COT PROJECT NUMBER I-2025-004 FOR DEMOLITION DETAILS.
4. EXISTING 8" VCP SEWER (G-83-044)
5. EXISTING EDGE OF PAVEMENT TO BE DEMOLISHED AND ROADWAY WIDENED. REFER TO COT PROJECT NUMBER I-2025-004 FOR ROADWAY PLANS.
6. EXISTING RIGHT OF WAY
7. EXISTING EASEMENT
8. EXISTING SIGN (TYP). REFER TO COT PROJECT NUMBER I-2025-004 FOR DEMOLITION DETAILS.
10. NEW EDGE OF PAVEMENT. REFER TO COT PROJECT NUMBER I-2025-004 FOR ROADWAY PLANS.
11. NEW 2-10'x3' RCBC. REFER TO COT PROJECT NUMBER I-2025-004 FOR DRAINAGE IMPROVEMENTS.
12. NEW DRAINAGE CHANNEL WITH CONCRETE SIDEWALLS AND WIRE-TIED RIPRAP BOTTOM. REFER TO COT PROJECT NUMBER I-2025-004 FOR DRAINAGE IMPROVEMENTS.
13. NEW DRAINAGE STRUCTURE. REFER TO COT PROJECT NUMBER I-2025-004 FOR DRAINAGE IMPROVEMENTS.
15. NEW 12" DIP WATER LINE. REFER TO COT PROJECT NUMBER I-2025-004 FOR WATER PLANS.
16. NEW FIRE HYDRANT. REFER TO COT PROJECT NUMBER I-2025-004 FOR WATER PLANS.
17. NEW LIGHT POLE (TYP). REFER TO COT PROJECT NUMBER I-2025-004 FOR LIGHTING PLANS.
18. NEW UNDERGROUND STREET LIGHT ELECTRIC CONDUIT. REFER TO COT PROJECT NUMBER I-2025-004 FOR LIGHTING PLANS.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or click Arizona811.com

SEWER SHEET NUMBER
SS03 OF SS07

No.	REVISIONS	DATE	BY

Kimley»Horn
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3300 East Sunrise Rd. Suite 130
Tucson, Arizona 85718
(520) 615-9191

PRELIMINARY
60% REVIEW
NOT FOR CONSTRUCTION OR RECORDING

KHA PROJECT	098134220
DATE	08/2025
SCALE	AS SHOWN
DESIGNED BY	AFA
DRAWN BY	AKS/BRS
CHECKED BY	VC

22ND STREET
SANITARY SEWER RELOCATION
(BROWN AVE)

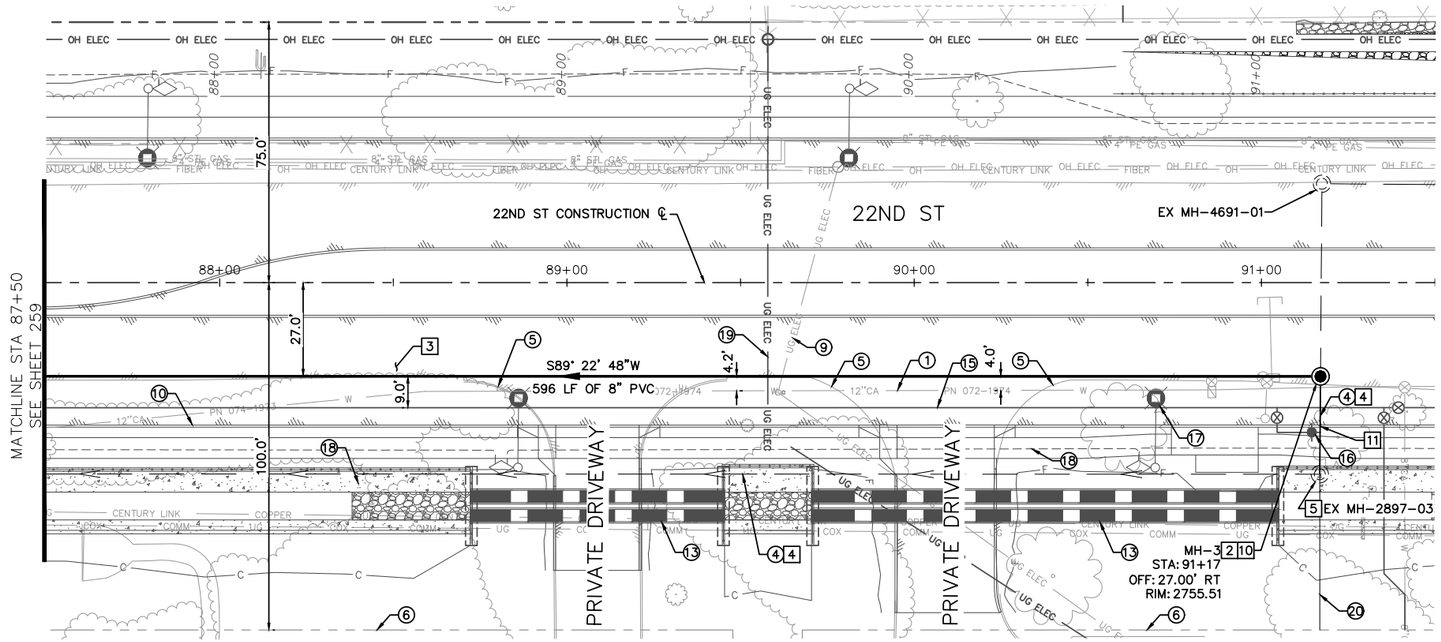
SEWER PLAN AND PROFILE
STA 84+00 TO STA 87+50

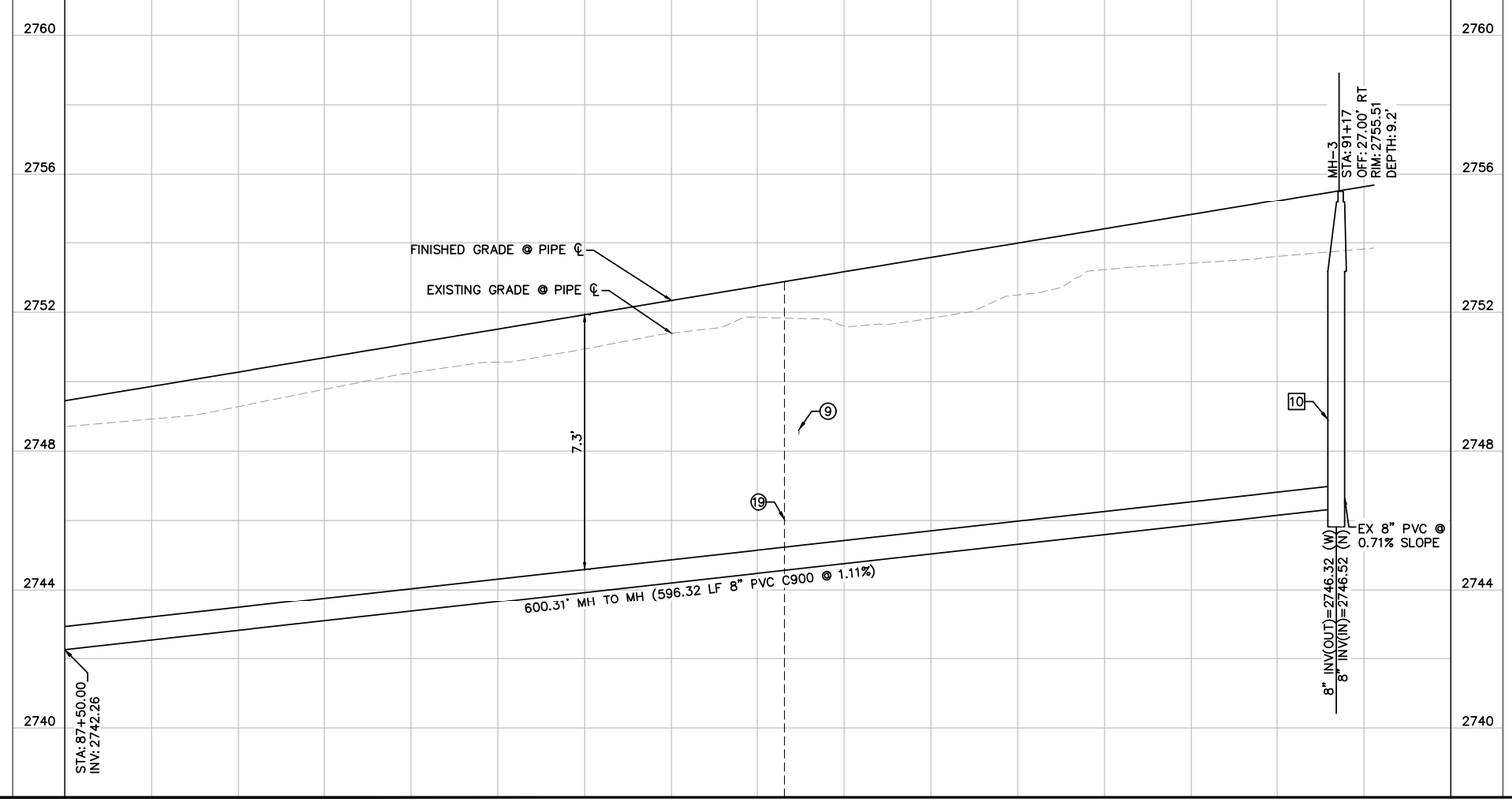
PIMA COUNTY
WASTEWATER RECLAMATION
PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
201 N STONE AVE., 8TH FLOOR TUCSON, ARIZONA 85701
(520) 724-6500

PCRWRD NO.
G-YYYY-NNN

SHEET NUMBER
259 OF 316

Plotted By:Batya.Salomon Date: August 21, 2025 11:56:51 AM File Path:K:\TUC_Roadway\098134220_COT 22nd Street\CADD\Wastewater\Plansheets\SEWER PLAN AND PROFILES.dwg





GRAPHIC SCALE IN FEET
0 10 20 40
HORIZ SCALE 1"=20'
VERT SCALE 1"=2'

CONSTRUCTION NOTES

2 NEW 4.0' MANHOLE PER PCRWRD STD. 205 AND STD. 211. RIM ELEVATION SHOWN IS BASED ON PROPOSED FINISHED GRADE AT CENTERPOINT OF MANHOLE. NEW FRAME AND COVER PER PCRWRD STD. 213.

3 NEW ROADWAY PAVEMENT PER COT PROJECT NUMBER I-2025-004

4 REMOVE EXISTING 8" VCP SEWER PIPE COMPLETELY PER PCRWRD STANDARD SPECIFICATION 3.2.3(G).

5 REMOVE EXISTING MANHOLE COMPLETELY PER PCRWRD STANDARD SPECIFICATION 3.3.3(E).

10 INSTALL NEW MANHOLE OVER EXISTING SEWER PER DETAIL 1 ON SHEET 5, PCRWRD STD. 202 (90-DEG CHANNEL DEFLECTION), AND PCRWRD STD. 303.

11 EXTEND EXISTING 6" HCS TO NEW MH-3. INSTALL HCS CONNECTION PER PCRWRD STANDARD SPECIFICATION 3.2.3(D) AND PCRWRD STD. 402.

GENERAL NOTES

1 EXISTING 12" CA WATER LINE (TO BE REBUILT AND RELOCATED). REFER TO WATER MODIFICATION PLANS FROM COT PROJECT NUMBER I-2025-004.

4 EXISTING 8" VCP SEWER (G-83-044)

5 EXISTING EDGE OF PAVEMENT TO BE DEMOLISHED AND ROADWAY WIDENED. REFER TO COT PROJECT NUMBER I-2025-004 FOR ROADWAY PLANS.

6 EXISTING RIGHT OF WAY

9 EXISTING UNDERGROUND ELECTRIC (TO BE REBUILT AND RELOCATED BY OTHERS). REFER TO COT PROJECT NUMBER I-2025-004 FOR DEMOLITION DETAILS.

10 NEW EDGE OF PAVEMENT. REFER TO COT PROJECT NUMBER I-2025-004 FOR ROADWAY PLANS.

13 NEW DRAINAGE STRUCTURE. REFER TO COT PROJECT NUMBER I-2025-004 FOR DRAINAGE IMPROVEMENTS.

15 NEW 12" DIP WATER LINE. REFER TO COT PROJECT NUMBER I-2025-004 FOR WATER PLANS.

16 NEW FIRE HYDRANT. REFER TO COT PROJECT NUMBER I-2025-004 FOR WATER PLANS.

17 NEW LIGHT POLE (TYP). REFER TO COT PROJECT NUMBER I-2025-004 FOR LIGHTING PLANS.

18 NEW UNDERGROUND STREET LIGHT ELECTRIC CONDUIT. REFER TO COT PROJECT NUMBER I-2025-004 FOR LIGHTING PLANS.

19 NEW UNDERGROUND ELECTRIC (BY OTHERS)

20 EXISTING 6" HCS. SEE PCRWRD CONSTRUCTION PLAN G-83-044 FOR MORE DETAILS.

SHEET NOTES:
1. TRENCH FOR NEW SEWER PIPE SHALL BE INSTALLED PER PCRWRD STD. 104.
2. REFER TO COT PROJECT NUMBER I-2025-004 FOR 22ND STREET CONSTRUCTION CENTERLINE HORIZONTAL CONTROL.

Contact Arizona 811 at least two full working days before you begin excavation
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SEWER SHEET NUMBER
SS04 OF SS07

No.	REVISIONS	DATE	BY

Kimley»Horn
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3300 East Sunrise Rd. Suite 130
Tucson, Arizona 85718
(520) 615-9191

PRELIMINARY
60% REVIEW
NOT FOR CONSTRUCTION OR RECORDING

KHA PROJECT	098134220
DATE	08/2025
SCALE	AS SHOWN
DESIGNED BY	AFA
DRAWN BY	AKS/BRS
CHECKED BY	VC

22ND STREET
SANITARY SEWER RELOCATION
(BROWN AVE)

SEWER PLAN AND PROFILE
STA 87+50 TO STA 91+50

PIMA COUNTY
WASTEWATER RECLAMATION
PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
201 N STONE AVE., 8TH FLOOR TUCSON, ARIZONA 85701
(520) 724-6500

PCRWRD NO.
G-YYYY-NNN

SHEET NUMBER
260 OF 316

Plotted By:Batya.Salomon Date:August 21, 2025 11:56:57 AM File Path:K:\TUC_Roadway\098134220_COT 22nd Street\CADD\Wastewater\Plansheets\SEWER PLAN AND PROFILES.dwg

TO BE PROVIDED WITH 90% SUBMITTAL

1 INSTALLATION OF NEW MANHOLE OVER EXISTING SEWER

N.T.S.

SEWER SHEET NUMBER
SS05 OF SS07

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

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No.	REVISIONS	DATE	BY

Kimley»Horn

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(520) 615-9191

PRELIMINARY
60%
REVIEW
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CONSTRUCTION
OR RECORDING

KHA PROJECT	098134220
DATE	08/2025
SCALE	AS SHOWN
DESIGNED BY	AFA
DRAWN BY	AKS/BRS
CHECKED BY	VC

22ND STREET
SANITARY SEWER RELOCATION
(BROWN AVE)

DETAILS

PIMA COUNTY
WASTEWATER RECLAMATION

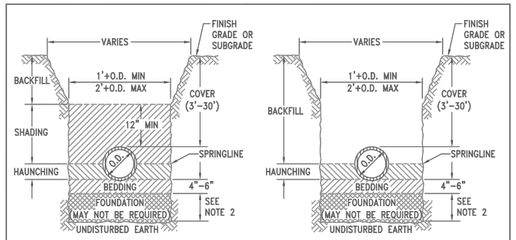
PIMA COUNTY REGIONAL WASTEWATER
RECLAMATION DEPARTMENT

201 N STONE AVE., 8TH FLOOR TUCSON, ARIZONA 85701
(520) 724-6500

PCRWRD NO.
G-YYYY-NNN

SHEET NUMBER
261 OF 316

Plotted By:Batya.Salomon Date:August 21, 2025 11:57:15 AM File Path:K:\TUC_Roadway\098134220_COT 22nd Street\CADD\Wastewater\Plansheets\DETAILS.dwg



FLEXIBLE PIPE TRENCH DETAIL
N.T.S.

RIGID PIPE TRENCH DETAIL
N.T.S.

TABLE 1: APPROVED TRENCH MATERIALS AND GRADATION REQUIREMENTS

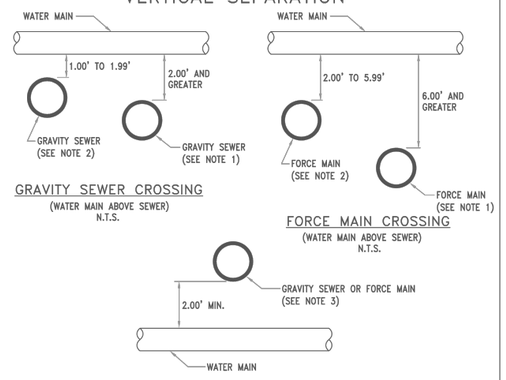
CRUSHED STONE (FOUNDATION, BEDDING, HAUNCHING & SHADING)		SAND (BEDDING, HAUNCHING & SHADING)		EXCAVATED NATIVE MATERIAL (BACKFILL)		SELECT IMPORT MATERIAL (BACKFILL & FOUNDATION)	
NOM. SIZE	% PASSING	NOM. SIZE	% PASSING	NOM. SIZE	% PASSING	NOM. SIZE	% PASSING
1"	100	1"	100	6"	100	3"	100
3/4"	90-100	#4	60-100	ALSO SEE SUBSECTION 3.1.2(C)		3/4"	60-100
3/8"	20-55	#200	0-10			#8	35-80
#4	0-10	MAX. P.I.=5				SUM OF #200 + P.I. ≤ 25	
#8	0-5	MAX. L.L.=30				ALSO SEE SUBSECTION 3.1.2(D)	
6.0 ≤ pH ≤ 12.0		6.0 ≤ pH ≤ 12.0					
ALSO SEE SUBSECTION 3.1.2(A)		ALSO SEE SUBSECTION 3.1.2(B)					

NOTES:

1. FOR SEWER LINES GREATER THAN 16 INCH DIAMETER OR COVER DEPTHS NOT CONFORMING TO THE STANDARD TRENCH DETAILS, SEE PLANS FOR MODIFIED TRENCH DETAILS.
2. FOUNDATION IS REQUIRED FOR OVEREXCAVATION SUCH AS FOR ROCK OR UNSUITABLE MATERIALS. SEE SUBSECTION 3.1.3(B) FOR MORE INFORMATION.
3. IN CASES WHERE GROUNDWATER IS ENCOUNTERED, INSTALLATION OF AN APPROVED GEOTEXTILE FABRIC ENCLOSING CRUSHED STONE SHALL BE REQUIRED FOR STABILIZATION.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	TYPICAL TRENCH FOR GRAVITY SEWER LINES	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 104
REVISED: 02/21			SHEET 1 OF 1

VERTICAL SEPARATION



NOTES:

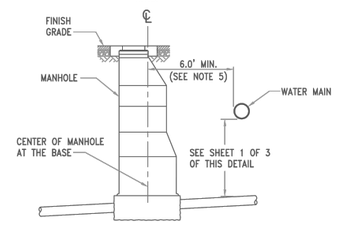
1. WHERE A WATER MAIN CROSSES ABOVE A GRAVITY SEWER WITH 2' OR GREATER VERTICAL CLEARANCE (OUTSIDE SURFACE TO OUTSIDE SURFACE), NO EXTRA PROTECTION IS REQUIRED. WHERE A WATER MAIN CROSSES ABOVE A FORCE MAIN WITH 6' OR GREATER VERTICAL CLEARANCE, NO EXTRA PROTECTION IS REQUIRED.
2. WHERE A WATER MAIN MUST CROSS ABOVE A GRAVITY SEWER WITH LESS THAN 2' OF CLEARANCE OR ABOVE A FORCE MAIN WITH LESS THAN 6' OF CLEARANCE, CONSTRUCT OR REPLACE THE SEWER LINE WITH DUCTILE IRON PIPE (D.I.P.) OR APPROVED EQUAL. IN NO CASE SHALL THE WATER MAIN HAVE LESS THAN 1' OF CLEARANCE ABOVE A GRAVITY SEWER OR 2' OF CLEARANCE ABOVE A FORCE MAIN. IF THE JOINT IS LOCATED LESS THAN 6' FROM THE OUTSIDE SURFACE OF THE WATER MAIN, THEN A RESTRAINED JOINT OR APPROVED EQUAL SHALL BE USED. REFER TO SHEET 3 OF 3.
3. WHERE A WATER MAIN CROSSES BELOW EITHER A GRAVITY SEWER OR A FORCE MAIN, CONSTRUCT OR REPLACE THE SEWER LINE WITH D.I.P. OR APPROVED EQUAL FOLLOWING THE GUIDELINES GIVEN IN NOTE NO. 2. IN NO CASE SHALL THE WATER MAIN BE LESS THAN 2' BELOW EITHER A GRAVITY SEWER OR FORCE MAIN.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	SEWER/WATER CROSSING DETAILS	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 108
REVISED: 10/15			SHEET 1 OF 3

HORIZONTAL SEPARATION



WATER MAIN SEPARATION WITH SEWER LINES
(PARALLEL ALIGNMENTS)
N.T.S.



WATER MAIN SEPARATION WITH SEWER MANHOLE
N.T.S.

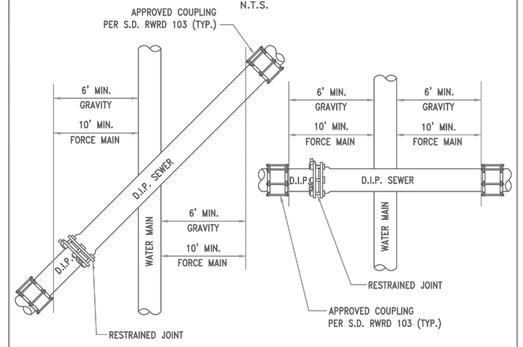
NOTES (CONTINUED):

4. THE MINIMUM HORIZONTAL CLEARANCE WITHOUT EXTRA PROTECTION BETWEEN A WATER MAIN AND A FORCE MAIN OR GRAVITY SEWER LINE SHALL BE 6' OUTSIDE SURFACE TO OUTSIDE SURFACE.
5. THE MINIMUM HORIZONTAL CLEARANCE BETWEEN A WATER MAIN AND A SEWER MANHOLE SHALL BE 6' FROM THE OUTSIDE SURFACE OF THE WATER MAIN TO THE CENTER OF MANHOLE.
6. WHERE A 6' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED WITH A GRAVITY SEWER, CONSTRUCT OR REPLACE THE SEWER LINE WITH D.I.P. OR APPROVED EQUAL FOLLOWING THE GUIDELINES GIVEN IN NOTE NO. 2. IN NO CASE SHALL A GRAVITY SEWER LINE BE LOCATED LESS THAN 2' HORIZONTALLY FROM A WATER MAIN.
7. IN NO CASE SHALL A FORCE MAIN BE LOCATED LESS THAN 6' HORIZONTALLY FROM A WATER MAIN.
8. THE AMERICAN NATIONAL STANDARD FOR THE THICKNESS DESIGN OF D.I.P. (ANSI/AWWA C150/A21.50) SHALL BE USED TO DETERMINE THE REQUIRED PRESSURE CLASS EXCEPT FOR D.I.P. WITH A DIAMETER OF 3" THRU 24", A MINIMUM PRESSURE CLASS OF 350 IS REQUIRED. FOR D.I.P. WITH A DIAMETER GREATER THAN 24", A MINIMUM PRESSURE CLASS OF 200 IS REQUIRED.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	SEWER/WATER CROSSING DETAILS	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 108
REVISED: 12/12			SHEET 2 OF 3

PLAN VIEWS

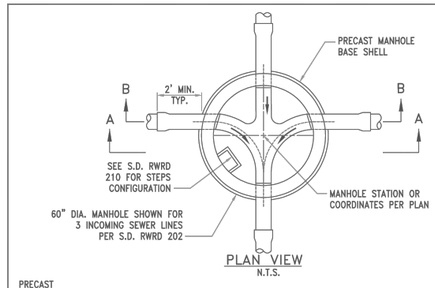
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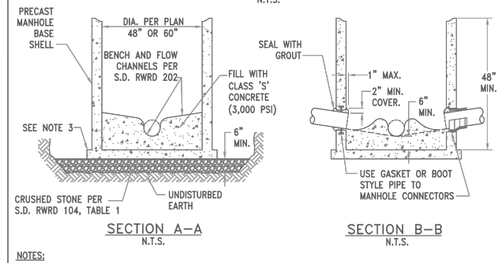
NOTES (CONTINUED):

9. WHERE THE SEWER LINE IS A GRAVITY SEWER, THE D.I.P. INSTALLATION OR REPLACEMENT SHALL EXTEND A MINIMUM OF 6' BEYOND EACH SIDE OF THE WATER MAIN, MEASURED HORIZONTALLY FROM AND PERPENDICULAR TO THE WATER MAIN.
10. WHERE THE SEWER LINE IS A FORCE MAIN, THE D.I.P. INSTALLATION OR REPLACEMENT SHALL EXTEND A MINIMUM OF 10' BEYOND EACH SIDE OF THE WATER MAIN, MEASURED HORIZONTALLY FROM AND PERPENDICULAR TO THE WATER MAIN.
11. WHEN UNUSUAL CONDITIONS SUCH AS, BUT NOT LIMITED TO, HIGHWAY OR BRIDGE CROSSINGS PREVENT THE WATER AND SEWER LINE SEPARATIONS REQUIRED BY THIS DETAIL FROM BEING MET, PCRWRD WILL REVIEW AND MAY APPROVE (SUBJECT TO APPROVAL BY THE ENVIRONMENTAL REGULATORY AGENCY HAVING JURISDICTION), REQUESTS FOR AUTHORIZATION TO USE ALTERNATE CONSTRUCTION TECHNIQUES, MATERIALS AND JOINTS ON A CASE-BY-CASE BASIS.
12. ALL DUCTILE IRON PIPE SHALL BE INTERNALLY LINED AND EXTERNALLY WRAPPED PER SUBSECTION 3.2.2(D).

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	SEWER/WATER CROSSING DETAILS	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 108
REVISED: 12/12			SHEET 3 OF 3



PLAN VIEW
N.T.S.



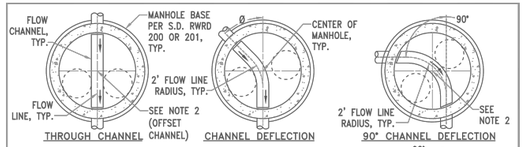
SECTION A-A
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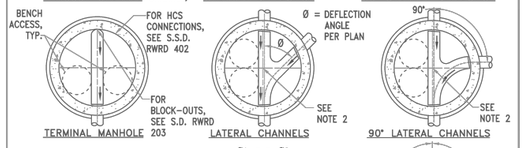
SECTION B-B
N.T.S.

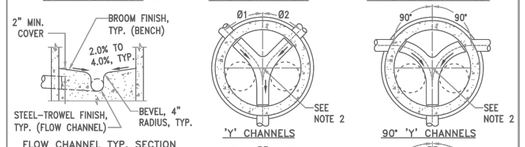
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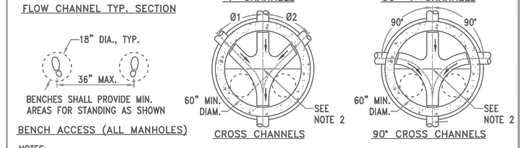
1. CRUSHED STONE SHALL BE LEVELED WITHIN 1/4" OF THE REQUIRED GRADE PRIOR TO PLACEMENT OF THE PRECAST BASE SHELL.
2. PRECAST BASE SHELLS SHALL BE FURNISHED BY THE MANUFACTURER WITH THE REQUIRED PIPE CUT-OUT SIZES AND PRE-INSTALLED PIPE-TO-MANHOLE CONNECTORS. SEE S.D. RWRD 203 FOR BLOCK-OUT REQUIREMENTS.
3. MINIMUM TOE DIMENSIONS PER PLAN FOR MANHOLES REQUIRING REINFORCED JOINTS PER S.D. RWRD 209.
4. SEE SUBSECTION 3.3.3(B)(III) FOR MORE INFORMATION.

ISSUED:	STANDARD DETAIL		DETAIL NO.
12/12	PRECAST MANHOLE BASE	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 200
REVISED: 10/15			SHEET 1 OF 1





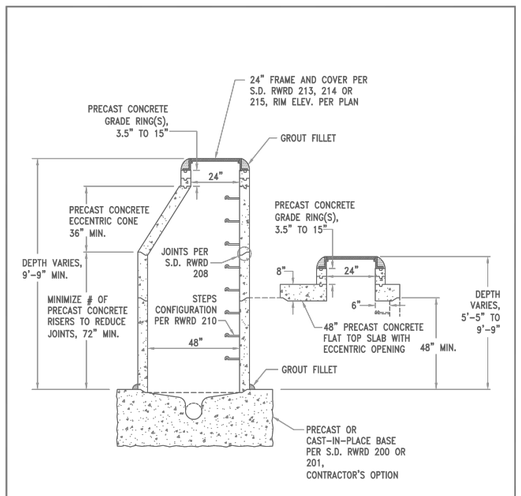




NOTES:

1. FLOW CHANNEL CONFIGURATIONS PROVIDED IN THIS DETAIL SHALL ONLY APPLY TO 48" AND 60" DIAMETER MANHOLES. FOR LARGER MANHOLES REFER TO THE PLANS FOR REQUIRED FLOW CHANNEL CONFIGURATION.
2. SHIFT CENTER OF MANHOLE AS NEEDED FOR BENCH ACCESS AND CCTV CAMERA ACCESS. FLOW CHANNELS SHALL BE FORMED TO PROVIDE A SMOOTH TRANSITION OF FLOW FROM THE INCOMING PIPES TO THE OUTGOING PIPE.
3. FOR THE MINIMUM MANHOLE DIAMETER REQUIREMENTS, SEE THE DESIGN STANDARDS, SUBSECTION 5.2.7.

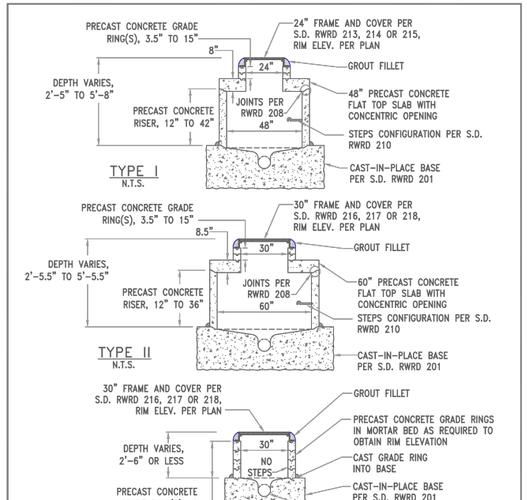
ISSUED:	STANDARD DETAIL		DETAIL NO.
12/12	MANHOLE FLOW CHANNELS	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 202
REVISED: 10/15			SHEET 1 OF 1



NOTES:

1. PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO ASTM C478 AND AASHTO M199.
2. FOR 4' DIAMETER MANHOLE DEPTHS LESS THAN 5'-5" (SHALLOW MANHOLES), SEE S.D. RWRD 207; TYPE I.
3. SEE SUBSECTIONS 3.3.2(E) AND 3.3.3 FOR MORE INFORMATION.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	4' DIAMETER MANHOLE CONFIGURATIONS	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 205
REVISED: 02/21			SHEET 1 OF 1



NOTES:

1. THIS STANDARD DETAIL MAY BE USED BY THE CONTRACTOR IF APPROVED IN THE PLANS OR IN WRITING.
2. PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO ASTM C478 AND AASHTO M199.
3. SEE SUBSECTIONS 3.3.2(E) AND 3.3.3 FOR MORE INFORMATION.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	SHALLOW MANHOLES	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 207
REVISED: 02/21			SHEET 1 OF 1

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

ARIZONA811

Call 811 or click Arizona811.com

SEWER SHEET NUMBER
SS06 OF SS07

No.	REVISIONS	DATE	BY

Kimley»Horn

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3300 East Sunrise Rd. Suite 130
Tucson, Arizona 85718
(520) 615-9191

PRELIMINARY
60% REVIEW
NOT FOR CONSTRUCTION OR RECORDING

KHA PROJECT 098134220
DATE 08/2025
SCALE AS SHOWN
DESIGNED BY AFA
DRAWN BY AKS/BRS
CHECKED BY VC

22ND STREET
SANITARY SEWER RELOCATION
(BROWN AVE)

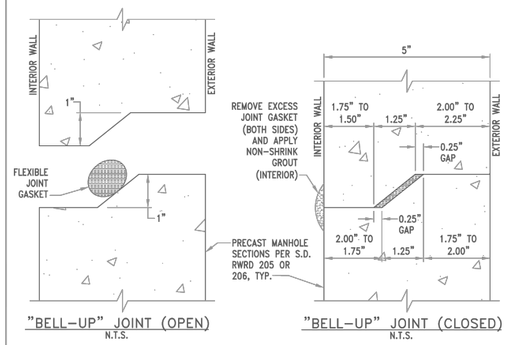
PCRWRD DETAILS

PIMA COUNTY
WASTEWATER RECLAMATION
PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
201 N STONE AVE., 8TH FLOOR TUCSON, ARIZONA 85701
(520) 724-6500

PCRWRD NO.
G-YYYY-NNN

SHEET NUMBER
262 OF 316

Plotted By:Batya.Salomon Date: August 21, 2025 11:57:25 AM File Path:K:\TUC_Roadway\098134220_COT 22nd Street\CADD\Wastewater\Plansheets\DETAILS.dwg



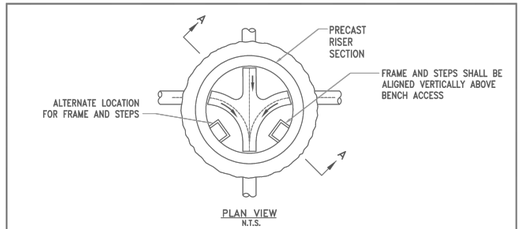
"BELL-UP" JOINT (OPEN)
N.T.S.

"BELL-UP" JOINT (CLOSED)
N.T.S.

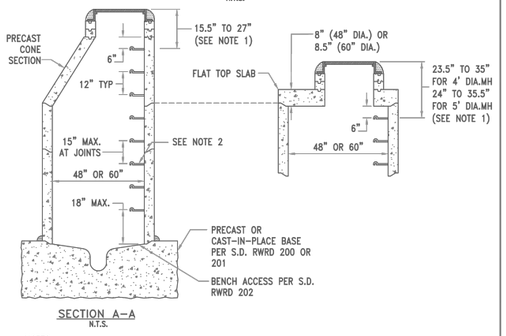
NOTES:

1. THIS DETAIL APPLIES TO 4' AND 5' DIAMETER PRECAST MANHOLE SECTIONS. SHOP DRAWINGS AND JOINT DETAILS FOR LARGER MANHOLE DIAMETERS SHALL BE SUBMITTED TO THE FIELD ENGINEER FOR REVIEW AND APPROVAL.
2. THE MIXING OF JOINTS WITHIN A MANHOLE IS NOT PERMITTED WITHOUT APPROVAL BY THE FIELD ENGINEER.
3. SEE SUBSECTION 3.3.3(B)(III) FOR MORE INFORMATION.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92 (WWM-226)	MANHOLE JOINTS	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 208
REVISED: 12/12			SHEET 1 OF 1



PLAN VIEW
N.T.S.

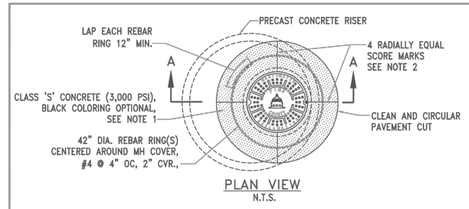


SECTION A-A
N.T.S.

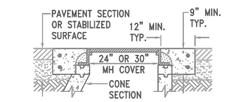
NOTES:

1. THIS DETAIL APPLIES TO NEW MANHOLE CONSTRUCTION, FOR GRADE ADJUSTMENTS TO EXISTING MANHOLES, SEE S.D. RWRD 304 AND 305 FOR ALLOWABLE DEPTHS FROM RIM TO FIRST MANHOLE STEP.
2. SEE SUBSECTION 3.3.2(G) AND 3.3.3(B)(IV) FOR MORE INFORMATION.

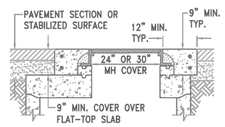
ISSUED:	STANDARD DETAIL		DETAIL NO.
12/12	MANHOLE STEPS CONFIGURATION	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 210
REVISED: 02/21			SHEET 1 OF 1



PLAN VIEW
N.T.S.



SECTION A-A FOR CONE-TOP
N.T.S.

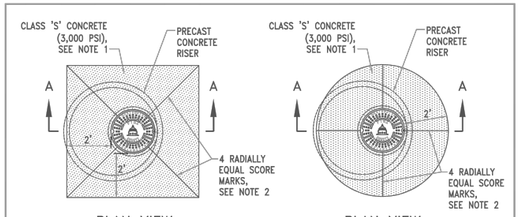


SECTION A-A FOR FLAT-TOP
N.T.S.

NOTES:

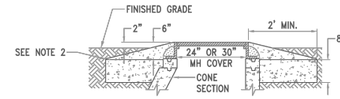
1. FOR MANHOLES LOCATED WITHIN RIGHT-OF-WAY, OPTIONS SHOWN (E.G. COLORING AGENTS AND CONCEALED/ REVEALED COLLARS) WILL BE DICTATED BY THE TRANSPORTATION AGENCY HAVING JURISDICTION.
2. FINISH ALL CONCRETE EDGES AND SCORE MARKS WITH A HAND TROWEL HAVING A 1/4" RADIUS. EXPOSED SURFACES SHALL HAVE A MEDIUM BROOM FINISH.
3. MINIMUM COLLAR THICKNESS MAY BE REDUCED TO 6" FOR SLAB COVER DEPTHS OF 11" OR LESS.

ISSUED:	STANDARD DETAIL		DETAIL NO.
12/12	CONCRETE COLLAR FOR PAVED AREAS	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 211
REVISED: 02/21			SHEET 1 OF 1

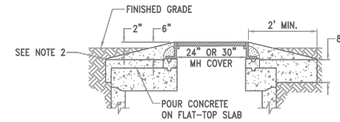


PLAN VIEW
SQUARE COLLAR
N.T.S.

PLAN VIEW
ROUND COLLAR
N.T.S.



SECTION A-A (FOR CONE SECTIONS)
N.T.S.

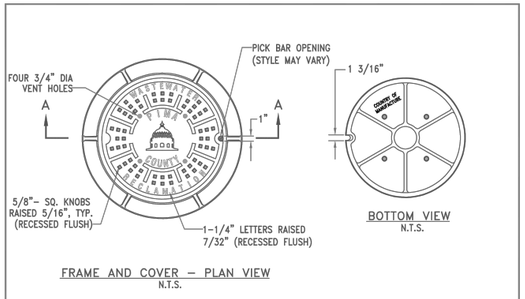


SECTION A-A (FOR FLAT-TOP SLABS)
N.T.S.

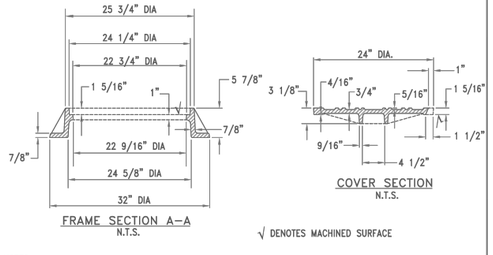
NOTES:

1. SQUARE OR ROUND TYPE COLLARS SHOWN ARE CONTRACTOR'S OPTION. ALL COLLARS SHALL BE FORMED.
2. FINISH ALL CONCRETE EDGES AND SCORE MARKS WITH A HAND TROWEL HAVING A 1/4" RADIUS. EXPOSED CONCRETE SURFACES SHALL HAVE A MEDIUM BROOM FINISH.

ISSUED:	STANDARD DETAIL		DETAIL NO.
9/93	CONCRETE COLLAR FOR UNPAVED AREAS	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 212
REVISED: 02/21			SHEET 1 OF 1



FRAME AND COVER - PLAN VIEW
N.T.S.



FRAME SECTION A-A
N.T.S.

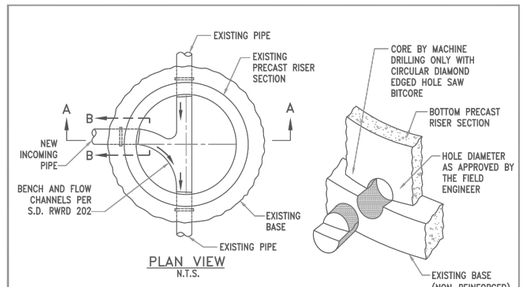
COVER SECTION
N.T.S.

√ DENOTES MACHINED SURFACE

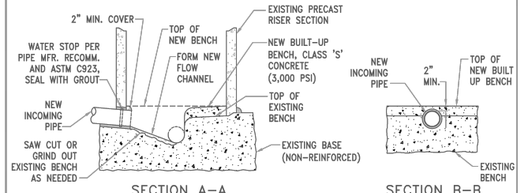
NOTES:

1. COVER STYLE MAY SLIGHTLY VARY WITH APPROVAL BY THE FIELD ENGINEER.
2. FRAME WEIGHT 180 LBS. (APPROX.) AND COVER WEIGHT 130 LBS. (APPROX.)
3. REFER TO SECTION 3.3.2(H) FOR MORE INFORMATION.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	24" FRAME AND COVER	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 213
REVISED: 02/21			SHEET 1 OF 1



PLAN VIEW
N.T.S.



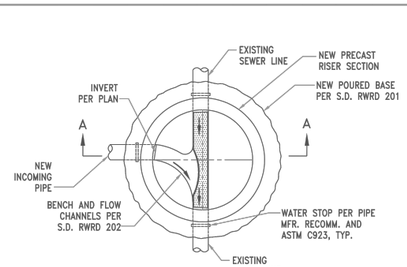
SECTION A-A
N.T.S.

SECTION B-B
N.T.S.

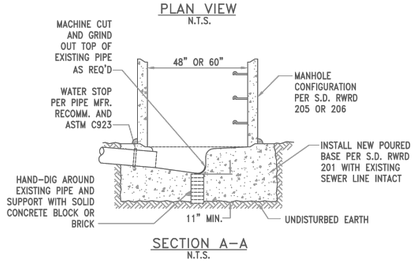
NOTES:

1. EXISTING BENCH SHALL BE THOROUGHLY CLEANED PRIOR TO CONSTRUCTING NEW BUILT-UP BENCH.
2. CONNECTIONS TO EXISTING MANHOLES SHALL BE INSPECTED AND APPROVED BY THE FIELD ENGINEER.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	CONNECTION TO EXISTING MANHOLE BASE	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 301
REVISED: 12/12			SHEET 1 OF 1



PLAN VIEW
N.T.S.

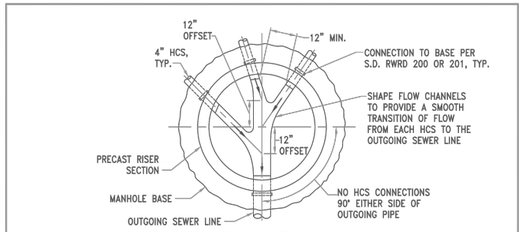


SECTION A-A
N.T.S.

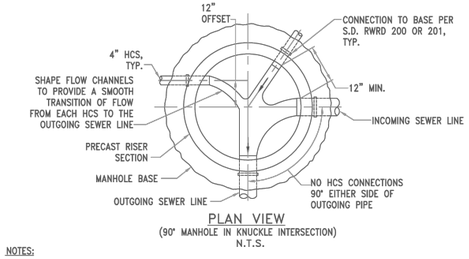
NOTES:

1. FOUNDATION PER S.D. RWRD 104 TO THE FIRST JOINT BEYOND OPEN TRENCH CONDITIONS MAY BE REQUIRED DEPENDING ON DEPTH OF EXCAVATION AND TYPE OF SOIL.
2. SEE SUBSECTION 3.3.3(D)(V) FOR MORE INFORMATION.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	NEW MANHOLE OVER EXISTING SEWER LINE	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 303
REVISED: 12/12			SHEET 1 OF 1



PLAN VIEW
(TERMINAL MANHOLE IN CUL-DE-SAC)
N.T.S.



PLAN VIEW
(90° MANHOLE IN KNUCKLE INTERSECTION)
N.T.S.

NOTES:

1. THIS STANDARD DETAIL MAY ONLY BE USED IN ACCORDANCE WITH SEC. 5.3.2, EDS, OR IF APPROVED IN WRITING.
2. THE CROWN ELEVATION OF EACH HCS SHALL MATCH THE CROWN ELEVATION OF THE OUTGOING SEWER LINE.

ISSUED:	STANDARD DETAIL		DETAIL NO.
8/92	HCS CONNECTIONS TO MANHOLES	PIMA COUNTY WASTEWATER RECLAMATION	RWRD 402
REVISED: 02/21			SHEET 1 OF 1

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

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SEWER SHEET NUMBER
SS07 OF SS07

No.	REVISIONS	DATE	BY

Kimley»Horn

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(520) 615-9191

PRELIMINARY
60% REVIEW
NOT FOR CONSTRUCTION OR RECORDING

KHA PROJECT	098134220
DATE	08/2025
SCALE	AS SHOWN
DESIGNED BY	AFA
DRAWN BY	AKS/BRS
CHECKED BY	VC

22ND STREET
SANITARY SEWER RELOCATION
(BROWN AVE)

PCRWRD DETAILS

PIMA COUNTY
WASTEWATER RECLAMATION
PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
201 N STONE AVE., 8TH FLOOR TUCSON, ARIZONA 85701
(520) 724-6500

PCRWRD NO.
G-YYYY-NNN

SHEET NUMBER
263 OF 316

Plotted By:Batya.Salomon Date: August 21, 2025 11:57:33 AM File Path:K:\TUC_Roadway\098134220_COT 22nd Street\CADD\Wastewater\Plansheets\DETAILS.dwg

22ND STREET

CAMINO SECO TO HOUGHTON ROAD

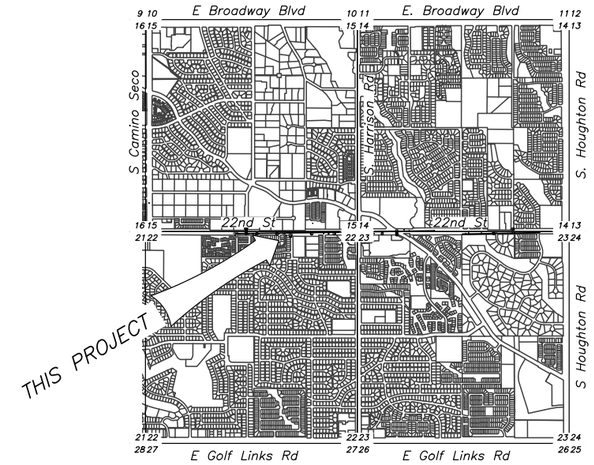
C.O.T JOB NO. SR 20

WATER MODIFICATION PLANS

PROJECT NO. PRJ000544

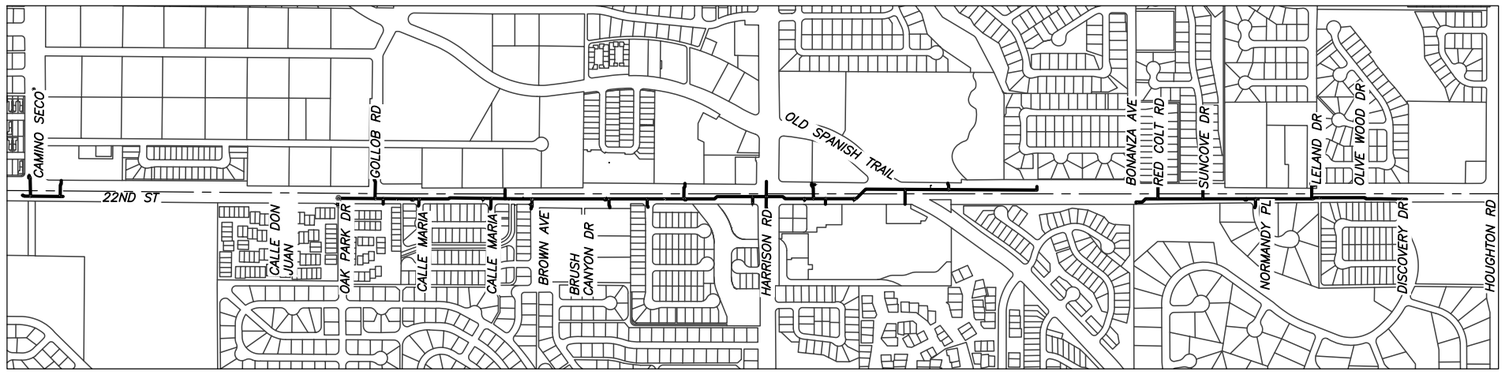
SHEET INDEX

SHEET NO.	TW SHEET NUMBER	DESCRIPTION	
264	W1	COVER SHEET	
265	W2	SHEET INDEX PLAN	
266	W3	GENERAL NOTES	
267	W4	ABBREVIATIONS AND LEGEND	
268	W5	POTHOLE DATA	
269	W6	22ND STREET WATER LINE	STA 48+00 TO STA 52+50
270	W7	22ND STREET WATER LINE	STA 71+50 TO STA 76+50
271	W8	22ND STREET WATER LINE	STA 76+50 TO STA 81+50
272	W9	22ND STREET WATER LINE	STA 81+50 TO STA 86+50
273	W10	22ND STREET WATER LINE	STA 86+50 TO STA 91+50
274	W11	22ND STREET WATER LINE	STA 91+50 TO STA 96+50
275	W12	22ND STREET WATER LINE	STA 96+50 TO STA 101+50
276	W13	22ND STREET WATER LINE	STA 101+50 TO STA 106+50
277	W14	22ND STREET WATER LINE	STA 106+50 TO STA 111+50
278	W15	22ND STREET WATER LINE	STA 111+50 TO STA 116+50
279	W16	22ND STREET WATER LINE	STA 116+50 TO STA 121+50
280	W17	22ND STREET WATER LINE	STA 121+50 TO STA 126+50
281	W18	22ND STREET WATER LINE	STA 126+50 TO STA 131+50
282	W19	22ND STREET WATER LINE	STA 131+50 TO STA 136+50
283	W20	22ND STREET WATER LINE	STA 136+50 TO STA 141+50
284	W21	22ND STREET WATER LINE	STA 141+50 TO STA 146+50
285	W22	22ND STREET WATER LINE	STA 146+50 TO STA 151+50
286	W23	22ND ST.	STA 49+71 STA 49+71
287	W24	22ND ST.	STA 51+85 STA 71+89
288	W25	22ND ST.	STA 74+51 STA 75+05
289	W26	22ND ST.	STA 77+67 STA 82+29
290	W27	22ND ST.	STA 82+86 STA 83+87
291	W28	22ND ST.	STA 85+81 STA 85+81
292	W29	22ND ST.	STA 91+35 STA 94+11
293	W30	22ND ST.	STA 96+75 STA 101+70
294	W31	22ND ST.	STA 102+65
295	W32	22ND ST.	STA 106+08 STA 106+95
296	W33	22ND ST.	STA 115+81 STA 130+88
297	W34	22ND ST.	STA 134+12 STA 137+25
298	W35	22ND ST.	STA 137+89 STA 141+95
299	W36	22ND ST.	STA 141+95 STA 148+43
300	W37	22ND ST.	STA 112+67
301	W38	SURVEY CONTROL 1	
302	W39	SURVEY CONTROL 2	



LOCATION MAP

SECTIONS 14, 15, 16, 21, 22 & 23 T14S, R15E
G&SR B&M, PIMA COUNTY, ARIZONA
LATITUDE 32° 12'23"N. LONGITUDE 110°48'24"W
WARD 2 & 3
DISTRICT 4
SCALE: 3"=1 MILE



LOCATION MAP

1" = 500'

INSPECTOR'S RECORD DRAWING COMMENTS

INSPCT.:
CONTR.:
START: FINAL:
PIPE: DI☐ PVC☐
DI☐ PVC☐
SVC LINE MAT.:
B.F.'S:
GATES:
F.H.'S BRAND: MAT.:
MAGNETIC TAPE INST. YES ☐ NO ☐
TRACER WIRE INST. YES ☐ NO ☐
ALL VALVES WERE INSTALLED PER PLAN
Signature
Date
GPS LAT/LONG, YES ☐ NO ☐

CITY OF TUCSON FIRE MARSHALL Date:

TUCSON WATER Date:

ACCEPTANCE OF THESE PLANS IS VALID FOR THREE (3) YEARS AFTER THE DATE OF SIGNATURE.

ACCEPTED BY CITY OF TUCSON DEPARTMENT OF TRANSPORTATION AND MOBILITY ENGINEER FOR LOCATION IN RIGHT-OF-WAY Date:

UPC-2024-171
W1 OF W39

FOR ENGINEERING AS-BUILT RECORD DRAWING STAMP

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
NOT FOR
CONSTRUCTION

COVER SHEET

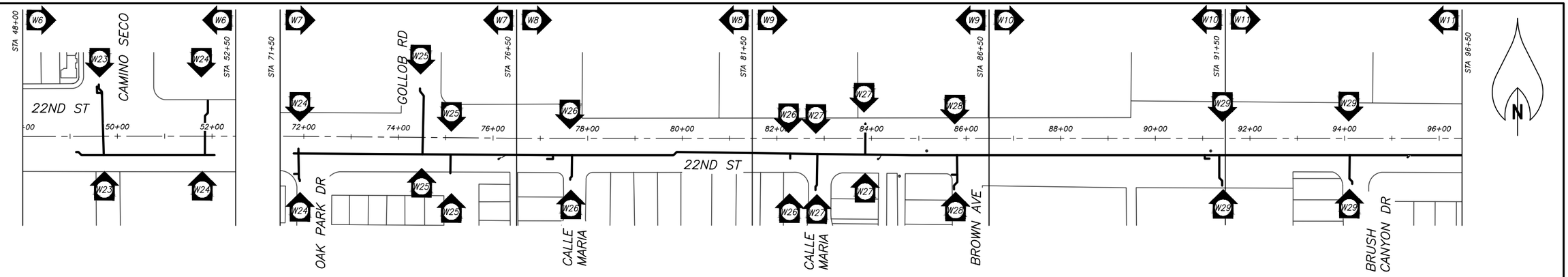
DESIGNED BY: SMM	DATE 08/25	FIELD BOOK NO.	264 OF 316
DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: NO SCALE HORIZ: AS SHOWN	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		

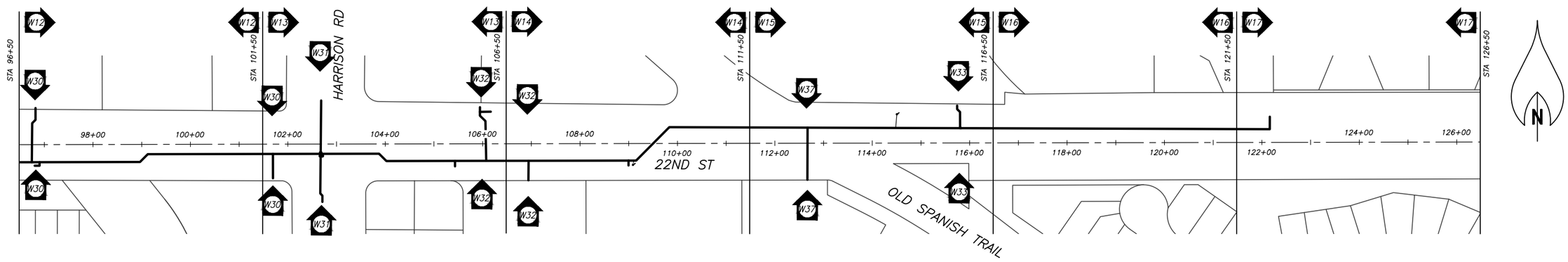
NO.	BY	DATE	REVISION	APPR.	DATE

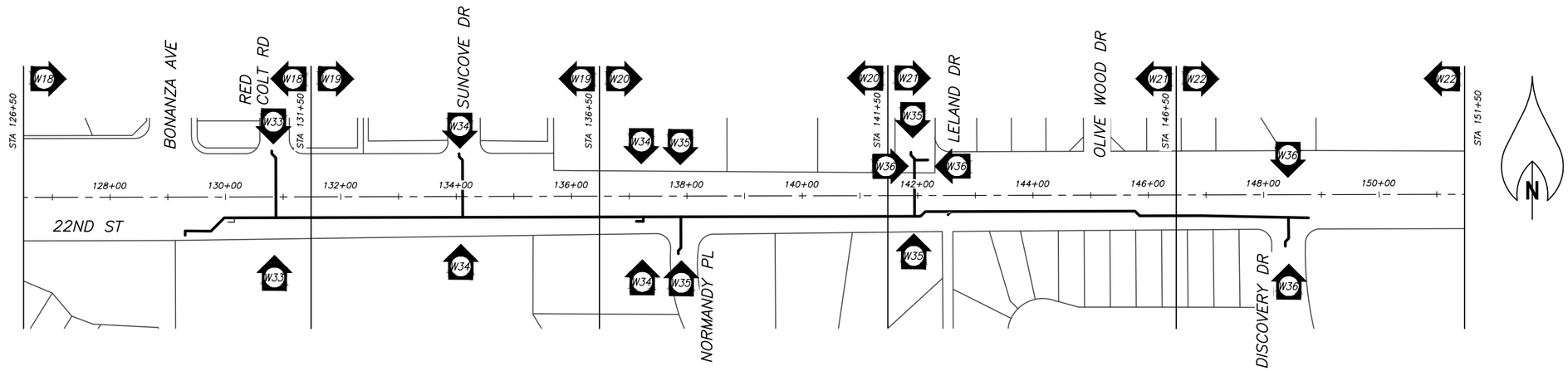
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Kimley»Horn
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3330 East Sunrise Drive, Suite 130
Tucson, Arizona 85718 (520) 615-9191

TW PLAN NO 4-014-2025







SHEET INDEX PLAN
1" = 100'

W2 OF W39

CITY OF TUCSON

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%

NOT FOR CONSTRUCTION

SHEET INDEX PLAN

DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	08/25		265 OF 316
DRAWN BY:	DATE	SCALE:	PLAN NO.
DRS/JAL	08/25	VERT: NO SCALE	1-2025-004
CHECKED BY:	DATE	HORIZ: 1" = 100'	
CAW	08/25		

TW PLAN NO 4-014-2025

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Tucson, Arizona 85718 (520) 615-9191

NO.	BY	DATE	REVISION	APPR.	DATE

TUCSON WATER GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING: THE CONTRACT DOCUMENTS; TUCSON WATER STANDARD SPECIFICATIONS AND DETAILS, 2017 EDITION WITH LATEST REVISIONS; AND PAG STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS VOLUME 1, 2015 EDITION; AND DRAWINGS VOLUME 2, 2015 EDITION; A COPY OF THE ABOVE REFERENCES SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES. IF A CONFLICT EXISTS BETWEEN THE SPECIAL PROVISIONS IN THE CONTRACT SPECIFICATIONS AND THE STANDARD SPECIFICATIONS AND DETAILS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
2. ALL WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED BY THE STATE OF ARIZONA, AS DETERMINED BY THE ARIZONA REGISTRAR OF CONTRACTORS (A, A–12, A–16, CR–80, AND KA).
3. ALL NOTES IN TUCSON WATER STANDARD DETAIL (SD) SD–105, GENERAL CONSTRUCTION NOTES, SHALL APPLY TO AND BECOME AN INTEGRAL PART OF THIS PROJECT.
4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
5. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF THE PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICE TO ALL WATER CUSTOMERS DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH SERVICES WILL BE AFFECTED BY THIS PROJECT. IT MAY BE NECESSARY TO ACCOMPLISH TIE–OVERS, RECONNECTIONS, ETC. WHILE BUSINESS CUSTOMERS ARE CLOSED. IF INTERRUPTION OF SERVICE IS UNAVOIDABLE, THE CONTRACTOR SHALL NOTIFY THE WATER INSPECTOR A MINIMUM OF 14 DAYS IN ADVANCE TO COORDINATE SHUT–DOWNS. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION TO THE CUSTOMER. IF THE CONTRACTOR CHOOSES TO ABANDON ANY PORTION OF THE EXISTING WATER SUPPLY SYSTEM WITHOUT CONCURRENT NEW CONSTRUCTION AS CALLED FOR ON THE PLANS, THE CONTRACTOR SHALL PROVIDE ANY AND ALL MATERIALS AND CONSTRUCTION OF A TEMPORARY OR PERMANENT WATER SYSTEM TO MAINTAIN CONTINUED WATER SERVICE TO CUSTOMERS AT NO ADDITIONAL COST.
7. FOURTEEN (14) DAYS PRIOR TO SHUT–DOWN OF ANY FIRE HYDRANTS OR FIRE PROTECTION SERVICE LINES, THE CONTRACTOR SHALL PROVIDE THE CITY OF TUCSON WATER DEPARTMENT CONSTRUCTION INSPECTOR WITH A WRITTEN REPORT INDICATING THE LOCATION AND DURATION OF ANY FIRE HYDRANT OR FIRE PROTECTION SERVICE SHUT–DOWNS. THE CONTRACTOR SHALL NOTIFY THE CITY OF TUCSON WATER DEPARTMENT CONSTRUCTION INSPECTOR WHEN FIRE HYDRANTS OR FIRE PROTECTION SERVICES ARE BACK IN SERVICE.
8. THE CONTRACTOR SHALL MAINTAIN OPERATION OF EXISTING TRAFFIC SIGNALS, STREET LIGHTING, AND RELATED SYSTEMS AT ALL TIMES THROUGHOUT THE AREA OF CONSTRUCTION, AND SHALL BE RELOCATED BY CONTRACTOR AS REQUIRED. CONTACT CITY OF TUCSON DEPARTMENT OF TRANSPORTATION AND MOBILITY TRAFFIC ENGINEERING AT (520) 791–4259 OR CONTACT PIMA COUNTY DEPARTMENT OF TRANSPORTATION TRAFFIC ENGINEERING AT (520) 724–6410 FOR RELOCATION INSTRUCTIONS AS REQUIRED.
9. THE CONTRACTOR SHALL EXERCISE CAUTION DURING CONSTRUCTION ACTIVITIES NEAR OR DIRECTLY UNDER OVERHEAD ELECTRIC FACILITIES. THE COST FOR ELECTRIC OVERHEAD PROTECTION IS BILLABLE TO THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE ELECTRIC UTILITY OWNER:
   A. TUCSON ELECTRIC POWER THE CONTRACTOR SHALL COMPLETE A TUCSON ELECTRIC POWER OVERHEAD/EXCAVATION PROTECTION APPLICATION AT LEAST TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION. CONTACT TUCSON ELECTRIC POWER AT BLUESTAKECOORDINATORTEP@TEP.COM OR (520) 917–2617.
10. THE OWNER/ENGINEER DOES NOT WARRANT THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS TO BE EXACT, NOR IS IT WARRANTED THAT ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS IN THE CITY OF TUCSON/PIMA COUNTY STANDARD SPECIFICATIONS SECTION 107–21, PAG STANDARD SPECIFICATIONS SECTION 107–21, AND WITH THE REQUIREMENTS OF ARIZONA REVISED STATUTES TITLE 40, INCLUDING PROVISIONS FOR DETERMINING THE LOCATION OF ALL UTILITIES IN THE WORK AREA PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY IMPROVEMENTS ENCOUNTERED IN THE COURSE OF THE WORK.
11. THE CONTRACTOR SHALL CONTACT ARIZONA 811 (FORMERLY ARIZONA BLUE STAKE) AT 811 OR (800) 782–5348 AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION.
12. ALL DIMENSIONS AND GRADES FOR EXISTING WATER LINES ARE TAKEN FROM "AS–BUILT" DRAWINGS, AND MAY BE SCHEMATIC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT INFORMATION REQUIRED FOR NEW CONSTRUCTION.
13. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF ALL TIE–IN LOCATIONS PRIOR TO THE START OF ANY CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE DRAWINGS INCLUDING CONFLICTS THAT MAY NOT BE SHOWN.
14. ANY SURVEY MONUMENT OR PROPERTY CORNER DISTURBED BY THIS CONSTRUCTION SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF ARIZONA, AND A RECORD OF SURVEY SHALL BE REQUIRED.
15. PIPELINE STATIONING AND OFFSETS FOR THIS PROJECT ARE FROM THE SURVEY CONTROL LINE, UNLESS OTHERWISE NOTED. ALL STATIONING IS ALONG THE SURVEY CONTROL LINE WITH OFFSETS TO THE PIPELINE.
16. IN DEVELOPED LOCATIONS, NEW WATER MAIN SHALL BE INSTALLED WITH 44 INCHES MINIMUM COVER UNLESS OTHERWISE NOTED ON THE DRAWINGS. IN NON–DEVELOPED LOCATIONS, NEW WATER MAIN SHALL BE INSTALLED WITH 60 INCHES MINIMUM COVER UNLESS OTHERWISE NOTED ON THE DRAWINGS.
17. UNLESS OTHERWISE NOTED, ALL DUCTILE IRON PIPE UP TO 12" IN DIAMETER SHALL BE PRESSURE CLASS 350, AND ALL DUCTILE IRON PIPE GREATER THAN 12" IN DIAMETER SHALL BE MINIMUM PRESSURE CLASS 250.
18. UNLESS OTHERWISE NOTED, 4" TO 12" PVC PIPE SHALL BE DIMENSION RATIO 14 (DR 14), PRESSURE CLASS 305 (DUCTILE IRON OD), AND 16" PVC PIPE SHALL BE DIMENSION RATIO 18 (DR 18), PRESSURE CLASS 235 (DUCTILE IRON OD).

TUCSON WATER GENERAL CONSTRUCTION NOTES (CONTINUED)

19. THE CONTRACTOR SHALL NOT DEFLECT PVC PIPE AT GASKETED BELL AND SPIGOT JOINTS OR AS LONGITUDINAL BENDING IN THE PIPE SEGMENT. THE CONTRACTOR SHALL ONLY DEFLECT PVC PIPE AT MECHANICAL JOINT SOLID SLEEVE FITTINGS OR STANDARD DUCTILE IRON BENDS/FITTINGS. PVC PIPE MAY BE DEFLECTED AT DUCTILE IRON BENDS OR FITTINGS PROVIDED THE DEFLECTION IS WITHIN THE AMERICAN WATER WORKS ASSOCIATION (AWWA) AND THE MANUFACTURERS ALLOWABLE DEFLECTION FOR THE BEND OR FITTING AND THE PIPE AT THE CONNECTION POINT.
20. ALL FITTINGS SHALL BE DUCTILE IRON AND CONNECTIONS SHALL BE MADE WITH APPROVED ADAPTERS. ALL DUCTILE IRON FITTINGS SHALL BE MINIMUM CLASS 250.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COMBINATION AIR RELEASE VALVES IN THE CONSTRUCTION AREA. THE LOCATION OF COMBINATION AIR RELEASE VALVES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE TUCSON WATER CONSTRUCTION INSPECTOR TO DETERMINE IN THE FIELD THE MOST EFFECTIVE AND EXACT LOCATIONS FOR COMBINATION AIR RELEASE VALVES.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER METERS AND METER BOXES IN THE CONSTRUCTION AREA. THIS SHALL INCLUDE AND NOT BE LIMITED TO:
   A. REMOVAL:
      THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING METERS FROM THE METER BOXES, ALONG WITH THE REMOVAL OF THE EXISTING METER BOXES AND CAPPING/PLUGGING OF THE EXISTING SERVICE CONNECTION.
   B. RELOCATION/INSTALLATION:
      DURING THIS OPERATION, METERS SHALL BE TAGGED WITH THE CORRECT ADDRESS TO VERIFY THEIR REINSTALLATION AT THE SAME LOCATION IF THE EXISTING METER IS AN AUTOMATED METER READER (AMR) WATER METER. IF THE EXISTING METER IS NOT AN AMR THE METER IS EXCHANGED/RETURNED TO TUCSON WATER FOR A NEW AMR TO BE INSTALLED AT THAT LOCATION.
   C. PROTECTION OF METERS:
      AT ALL TIMES THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID ANY DAMAGE TO METERS. THE CONTRACTOR SHALL PROVIDE FOR THEIR SAFE STORAGE AND THE PROPER EQUIPMENT FOR THEIR HANDLING.
   D. ACCESS TO METERS:
      THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL IN–SERVICE METERS DURING CONSTRUCTION. AT THE CLOSE OF THE PROJECT, THE CONTRACTOR SHALL CONFIRM THAT ALL METERS AND ALL METER BOXES ARE LEFT ACCESSIBLE AND THAT ALL METER BOXES ARE ADJUSTED TO FINAL GRADE.
   E. MATERIALS:
      TUCSON WATER SHALL SUPPLY ALL NEW AMR MODEL WATER METERS AND METER BOXES TO BE INSTALLED AS PART OF THIS PROJECT.
   F. DISPOSAL OF EXISTING METER BOXES:
      THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF ALL EXISTING METER BOXES NOT SUITABLE FOR REUSE/REINSTALLATION.
23. IF ANY EXISTING DETECTABLE MARKING TAPE IS DISTURBED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE NEW TAPE. THERE SHALL BE NO ADDITIONAL CHARGE FOR THIS REINSTALLATION.
24. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPE, FITTINGS, APPURTENANCES OR ANY OTHER MATERIALS TO BE IN CONTACT WITH POTABLE WATER IN ACCORDANCE WITH THE LEAD–FREE REQUIREMENTS DEFINED BY THE "REDUCTION OF LEAD IN DRINKING WATER ACT OF 2011" AMENDING SECTION 1417 OF THE SAFE DRINKING WATER ACT.
25. ALL EXCAVATIONS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH TUCSON WATER STANDARD SPECIFICATIONS.
26. REMOVAL OF WATER LINES SHALL INCLUDE FURNISHING AND INSTALLING BACKFILL AND COMPACTION TO MATCH EXISTING GRADE. COMPACTION REQUIREMENTS SHALL BE THE REQUIREMENTS OF THE AGENCY WITH JURISDICTION.
27. IF GROUTING OF ABANDONED WATER LINES IN JACKED AND BORED STEEL PIPE CASINGS ARE REQUIRED, THE CONTRACTOR SHALL PROVIDE A GROUTING PLAN IN ACCORDANCE WITH SPECIFICATIONS TO INCLUDE THE EXACT LOCATION OF GROUT INSERTION POINTS.
28. SOIL BORINGS IF AVAILABLE ARE APPROXIMATELY LOCATED AND NUMBERED ON THE PLANS. LOGS AND SOIL DESCRIPTIONS ARE APPENDED TO THE SPECIFICATIONS BUT ARE NOT PART OF THE CONTRACT DOCUMENTS. INFORMATION CONTAINED IN THE BORING LOGS HAS BEEN USED FOR DESIGN PURPOSES ONLY AND THE CONTRACTOR SHALL NOT RELY ON THIS FOR CONSTRUCTION PURPOSES.

WATER SYSTEM MODIFICATION NOTES

1. ACCEPTANCE CONDITIONS
   A. THIS PROJECT IS ACCEPTED BY THE CITY OF TUCSON WATER DEPARTMENT FOR SUBSTANTIAL CONCURRENCE WITH STANDARD SPECIFICATIONS AND DETAILS.
   B. ACCEPTANCE OF THESE PLANS IS VALID FOR 2 YEARS AFTER THE DATE OF THE SIGNATURE.
   C. THE WARRANTY AND GUARANTEE DURATION FOR ALL WATER WORK ON THIS PROJECT SHALL BE TWO (2) YEARS COMMENCING ON THE DATE OF FINAL ACCEPTANCE OF THE ROADWAY AGENCY IMPROVEMENTS PROJECT.

SEWER CONSTRUCTION NOTES

1. ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCRWRD) ENGINEERING DESIGN STANDARDS 2022 (EDS 2022) AND THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2022 (SSDC 2022). SAID DOCUMENTS ARE AVAILABLE THROUGH THE PCRWRD WEBSITE (www.pima.gov/wastewaterreclamation).
2. THE CONTRACTOR SHALL CONTACT "ARIZONA 811" (DIAL 811 OR 1–800–782–5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL KEEP ALL UNDERGROUND FACILITY LOCATION REQUESTS UP–TO–DATE AND COMPLY WITH ARIZONA REVISED STATUTES (A.R.S.), TITLE 40, CHAPTER 1, ARTICLE 6.3, SECTION 40–360.22. CONCERNS REGARDING THE ACCURACY BETWEEN THE UNDERGROUND FACILITY MARKINGS AND THE PROJECT PLANS SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AT ALL TIMES.
4. THE CONTRACTOR SHALL FIELD–VERIFY EXISTING SEWER LINE ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION. VERIFICATION MAY REQUIRE POT–HOLING.
5. ANY HOUSE CONNECTION SEWER (HCS) OR BUSINESS CONNECTION SEWER (BCS) LINES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REROUTED, AS THE SITUATION DICTATES, PER PCRWRD SSDC 2022 DETAIL NO. RWRD 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR PCRWRD. HCS AND BCS LINES ARE NOT OWNED OR MAINTAINED BY PCRWRD. PRIVATE CONNECTION SEWERS CONSTRUCTED PRIOR TO JANUARY 2006 ARE NOT REQUIRED TO BE LOCATED AND MARKED.
6. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO THE PCRWRD OPERATIONS CONTROL CENTER (OCC) AT (520) 724–6500: ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE DROPPING OF DEBRIS INTO A PUBLIC SANITARY SEWER MANHOLE. A PCRWRD REPRESENTATIVE WILL BE DISPATCHED TO THE SITE. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CONTAIN A SANITARY SEWAGE OVERFLOW (SSO). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, MITIGATE THE RELEASE OF SEWAGE, DISINFECT THE RELEASE AREAS, AND ANY REGULATORY PENALTIES LEVIED ON PCRWRD FOR SEWAGE ENTERING A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE PCRWRD FIELD REPRESENTATIVE.
7. MODIFICATION TO OR ADJUSTMENT OF EXISTING PIMA COUNTY SEWER FACILITIES SHALL NOT COMMENCE UNTIL: (A) THE CONTRACTOR HAS OBTAINED A PCRWRD PUBLIC SEWER CONSTRUCTION PERMIT (CONTACT THE PCRWRD PERMITS SECTION AT (520) 724–6649 FOR PERMIT APPLICATION REQUIREMENTS); (B) THE CONTRACTOR'S FLOW MANAGEMENT PLAN HAS BEEN SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE PRE–CONSTRUCTION MEETING AND APPROVED BY PCRWRD FIELD ENGINEERING; AND (C) A PRE–CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR IS SCHEDULED AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO COMMENCING WITH SEWER CONSTRUCTION.
8. AS–BUILT PLANS SHALL CONFORM TO SSDC 2022, SECTION 1.4.7 AND ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY PCRWRD.
9. STORM WATER AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY INSTALLED TO PROTECT PCRWRD MANHOLES AT THE BEGINNING OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTANTLY MAINTAIN STORM WATER AND SEDIMENT CONTROL MEASURES THAT PROTECT PCRWRD FACILITIES UNDER ALL CONDITIONS FOR THE DURATION OF THE PROJECT. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ALLOW STORM WATER, SEDIMENT, OR POTENTIAL POLLUTANTS FROM A CONSTRUCTION SITE TO ENTER A PCRWRD MANHOLE. THE CONTRACTOR SHALL ENSURE THAT THEIR FLOW MANAGEMENT OPERATIONS INCLUDE CONTROLS TO PREVENT ANY INTRODUCTION OF STORM WATER, SEDIMENT, OR POLLUTANTS INTO THE PUBLIC SANITARY SEWER SYSTEM. FAILURE TO CONFORM TO THESE REQUIREMENTS SHALL RESULT IN CANCELLATION OF THE SEWER CONSTRUCTION PERMIT.
10. ANY WORK INSIDE OR AROUND AN EXISTING SANITARY SEWER MANHOLE, INCLUDING MANHOLES THAT ARE LOCATED WITHIN THE ROUGH GRADING LIMITS FOR A PROJECT, SHALL BE PROTECTED FROM FALLING DEBRIS BY INSTALLING A TEMPORARY FLOW CHANNEL COVER PER PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, STANDARD DETAIL RWRD–306. THE CONTRACTOR SHALL REMOVE ANY DEBRIS THAT ENTERS A MANHOLE DURING CONSTRUCTION. FAILURE BY THE CONTRACTOR TO PROMPTLY REMOVE DEBRIS FROM A MANHOLE SHALL RESULT IN PCRWRD TAKING CORRECTIVE ACTION THAT WILL THEN BE BILLED TO THE CONTRACTOR.

CITY OF TUCSON DEPARTMENT OF TRANSPORTATION AND MOBILITY NOTES

1. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE CITY OF TUCSON DEPARTMENT OF TRANSPORTATION AND MOBILITY PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT–OF–WAY.
2. A PRE–CONSTRUCTION FIELD MEETING SHALL BE CONDUCTED WITH THE CITY OF TUCSON TRANSPORTATION INSPECTOR PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT–OF–WAY.
3. THE EXTENT AND TYPE OF SURFACE TREATMENTS/REPAIRS INDICATED ON THE PLANS MAY NOT BE ALL INCLUSIVE OF THE WORK THAT IS NEEDED. DEPENDING ON FIELD CONDITIONS, ADDITIONAL WORK MAY BE REQUIRED.
4. THE CONTRACTOR SHALL OBTAIN A FLOODPLAIN USE PERMIT FROM PIMA COUNTY REGIONAL FLOOD CONTROL DISTRICT FOR WORK WITHIN THE LIMITS OF ANY WASH SHOWN ON THESE DRAWINGS.

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NO.	BY	DATE	REVISION	APPR.	DATE

CITY OF TUCSON
TUCSON WATER

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
NOT FOR
CONSTRUCTION

GENERAL NOTES

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	266 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: NO SCALE HORIZ: NO SCALE	PLAN NO. 1–2025–004
CHECKED BY: CAW	DATE: 08/25		

LEGEND

WATER SYMBOLS

FEATURE	NEW	EXISTING
WATER MAIN (LATERAL)		DIA"MATL– PL# – W
RECLAIMED WATER MAIN	R R R R	DIA" R
BEND (SOLID SLEEVE, 11.25, 22.5, 45, 90)		
TEE, CROSS, VERTICAL BEND PLAN VIEW		
REDUCER/INCREASER		
PIPE MATERIAL CHANGE		
CORROSION TEST STATION (CTS)		
CORROSION TEST STATION (CTS) W/ ANODES	A	A
COMBINATION AIR RELEASE AND VACUUM VALVE ASSEMBLY AND SIZE (ARV)	A 2"	A 2"
BLOW–OFF VALVE AND SIZE (BOV)	B 2"	B 2"
BACKFLOW PREVENTER		
GATE VALVE, RECLAIMED		
BUTTERFLY VALVE, RECLAIMED		
DRAIN VALVE ASSEMBLY, RECLAIMED		
MODIFIED DRAIN VALVE ASSEMBLY, RECLAIMED		
FIRE HYDRANT	SIZE	
FIRE SERVICE		
PRESSURE REDUCING VALVE (PRV)		
WATER METER		
WATER MANHOLE	W	W
WATER VALVE IN MANHOLE		
WATER POTABLE WELL		(WELL NUMBER)
WATER QUALITY SAMPLING	WQ	WQ
WATER VALVE ZONE BOUNDARY/CLOSED	ZB/CV	ZB
GATE VALVE (PROFILE)		
BUTTERFLY VALVE (PROFILE)		
RECLAIMED WATER (PROFILE)	R R	
RELOCATION SERVICE LINE RENEWAL (M/R)	M R	
SERVICE LINE RENEWAL (R)	R	
METER RELOCATION SERVICE LINE ADJUSTMENT	M A	
SERVICE STUB (S)	S	
SERVICE LINE ADJUSTMENT (S/A)	S A	
WATER SERVICE TIE–OVER (T)	T	
PRIVATE PLUMBING	PP	
REMOVE AND DISPOSE		
ABANDONMENT (CUT & PLUG)		
SACRIFICIAL ANODES		
NEW LIGHT POLE (SEE ROADWAY PLANS)		
NEW TRAFFIC SIGNAL (SEE ROADWAY PLANS)		

BOUNDARY AND MARKER SYMBOLS

- 100–YEAR FLOOD PLAIN
- EASEMENT
- LIMITS OF CONSTRUCTION
- PROPERTY LINE
- RIGHT–OF–WAY (R/W)
- SCOUR LIMITS
- SECTION LINE
- SURVEY BRASS OR ALUMINUM MONUMENTS
- SURVEY COTTON SPINDLE
- SURVEY CUT OR CHISELED CROSS
- SURVEY CUT OR CHISELED CROWS FOOT
- SURVEY IRON PINS
- SURVEY NAILS
- SURVEY PIPES
- SURVEY RAILROAD SPIKE
- SURVEY STONE MONUMENT

SHEET INDEX SYMBOL

- SHEET INDEX

UTILITY SYMBOLS

FEATURE	SYMBOL
EXIST SANITARY SEWER	DIA"MAT S DIR
EXIST BUSINESS CONNECTION SEWER	BCS BCS BCS
EXIST HOUSE CONNECTION SEWER	HCS HCS HCS HCS
EXIST STORMDRAIN	DIA"MAT SD
PROPOSED STORMDRAIN	DIA"MAT SD
EXIST GAS	DIA"MAT G
EXIST UNDERGROUND ELECTRIC	UGE UGE UGE
EXIST OVERHEAD ELECTRIC	OHE
EXIST UNDERGROUND TELEPHONE	T T T
EXIST OVERHEAD TELEPHONE	OHT OHT OHT
EXIST UNDERGROUND CABLE TV	CATV CATV CATV
EXIST OVERHEAD CABLE TV	OHCATV OHCATV
EXIST UNDERGROUND FIBER OPTIC	FO FO FO
EXIST OVERHEAD FIBER OPTIC	OHFO OHFO
EXIST INTELLIGENT TRANSPORT SYSTEMS	ITS
PROPOSED INTELLIGENT TRANSPORT SYSTEMS	ITS
EXIST SEWER MANHOLE	
EXIST SEWER CLEAN–OUT	
EXIST STORMDRAIN MANHOLE	SD
EXIST GAS METER	
EXIST GAS VALVE	
EXIST ELECTRIC BOX (CABINET)	
EXIST POWER POLE W/GUY	
EXIST ELECTRIC MANHOLE	E
EXIST ELECTRIC PEDESTAL	
EXIST ELECTRIC PULLBOX	
EXIST TRAFFIC PULLBOX	
EXIST ELECTRIC TRANSFORMER	
EXIST STREET LIGHT (WITH MAST)	
EXIST TRAFFIC LIGHT	
EXIST TELEPHONE MANHOLE	T
EXIST MANHOLE (FIBER OPTIC)	FO
EXIST TELEPHONE PEDESTAL	
EXIST TELEPHONE POST	
EXIST UNKNOWN PEDESTAL	UN
EXIST MANHOLE (UNKNOWN)	UN
EXIST UNKNOWN PULLBOX	
EXIST CABLE TV PEDESTAL	
EXIST COMMUNICATION PULLBOX	COM
POST UTILITY MARKER (WATER, RECLAIMED WATER, GAS FIBER OPTIC)	WTR RW GAS FO
EXIST IRRIGATION CONTROL VALVE	
EXIST IRRIGATION CONTROL VALVE RECLAIMED	
SURVEY CONTROL LINE	10+00 11+00
POTHOLE SYMBOL	
SOIL BORING LOCATION AND NO	B–6

PHYSICAL CULTURE

- NEW PAVEMENT REPLACEMENT
- EXIST TREE(MESQ., PALO VERDE, PALM, PINE, STUMP)
- NEW PAVEMENT CHIP SEAL
- NEW BRICK
- NEW CONCRETE
- NEW GRAVEL
- EXIST BRICK
- EXIST CONCRETE
- EXIST RIPRAP
- EXIST CURB
- EXIST PAVED ROADWAY
- EXIST PAVED ROADWAY WITH CURB
- EXIST PAVED ROADWAY WITH GUTTER AND CURB
- EXIST FENCE LINE
- EXIST CHAIN LINK FENCE LINE
- EXIST WROUGHT IRON FENCE LINE
- EXIST GUARD RAIL

ABBREVIATIONS

&	AND	N	NORTH
℄	PROPERTY LINE	NB	NORTHBOUND
AHD	AHEAD	NO.	NUMBER
APPROX.	APPROXIMATELY	NTS	NOT TO SCALE
ARV	AIR RELEASE VALVE	OHE	OVERHEAD ELECTRIC
AVE	AVENUE	PAG	PIMA ASSOCIATION OF GOVERNMENTS
B & C	BOX & COVER	PC	POINT OF CURVATURE
BFV	BUTTERFLY VALVE	PCDOT	PIMA COUNTY DEPT. OF TRANSPORTATION
BK	BACK	PCFCD	PIMA COUNTY FLOOD CONTROL DISTRICT
BCSM	BRASS CAP SURVEY MONUMENT	PCRWRD	PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
BLVD	BOULEVARD		
BSM	BRASS SURVEY MONUMENT	PE	PLAIN END OR POLYETHYLENE
BTW	BETWEEN	PED	PEDESTAL
CA	CEMENT ASBESTOS	PN	PLAN NUMBER
CALC	CALCULATED	PP	POWER POLE
CAV	COMBINATION AIR RELEASE VALVE	PRV	PRESSURE REGULATOR VALVE
CIR	CIRCLE	PT	POINT OR POINT OF TANGENCY
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CTS	CORROSION TEST STATION	PL	PLACE
CU	COPPER	R/W, ROW	RIGHT–OF–WAY
CV	CLOSED VALVE	RB	REBAR
℄	CENTERLINE	RCP	REINFORCED CONCRETE PIPE
DET	DETAIL	RD	ROAD
DIP	DUCTILE IRON PIPE	RED	REDUCER
DR	DRIVE	RO	ROTATED
DVA	DRAIN VALVE ASSEMBLY	RT	RIGHT
E	EAST	S	SOUTH OR SEWER
ECC	ECCENTRIC	SB	SOUTHBOUND
EG	EXISTING GRADE	SCO	SEWER CLEANOUT
ELEC	ELECTRIC	SD–XXX	STANDARD DETAIL
ELEV	ELEVATION	SHT	SHEET
EPNG	EL PASO NATURAL GAS	SMH	SEWER MANHOLE
EXIST	EXISTING	SQ	SQUARE
FG	FINISH GRADE	SS	STAINLESS STEEL OR SANITARY SEWER (PCRWRD)
FH	FIRE HYDRANT		
FIK	FLANGED INSULATION KIT	ST	STREET OR SPIRAL TO TANGENT
FLG	FLANGE	STA	STATION
FTG	FOOTING	STL	STEEL
G	NATURAL GAS	SE	SOUTHEAST
GM	GAS METER	SW	SOUTHWEST
GV	GATE VALVE	TELE	TELEPHONE OR TELEGRAPH
HCS	HOUSE CONNECTION SEWER	THK	THICK
HDPE	HIGH DENSITY POLYETHYLENE	TS&V	TAPPING SLEEVE AND VALVE
HORIZ/HZ	HORIZONTAL	TV	CABLE TV
HWY	HIGHWAY	TW	TUCSON WATER
INV	INVERT	UNK	UNKNOWN
ITS	INTELLIGENT TRANSPORTATION SYSTEMS	VCP	VITRIFIED CLAY PIPE
LF	LINEAR FEET	VERT/VT	VERTICAL
LT	LIGHT POLE	W	WEST OR WATER
LT	LEFT	WE	WATER EASEMENT
MAX	MAXIMUM	WO	WORK ORDER
MESQ.	MESQUITE	X	BY
MH	MANHOLE	YD	YARD
MIN	MINIMUM	ZB	ZONE BOUNDARY
MJ	MECHANICAL JOINT		
MLC	MORTAR LINED CYLINDER PIPE		

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CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4–014–2025

POINT TABLE

PH #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	440554.0±	1043450.6±	2692.35±	12.5" PVC WATER
2	440563.0±	1045736.4±	2727.68±	12.5" CONCRETE WATER
3	440591.4±	1048446.0±	2765.35±	12" PVC WATER
4	440567.6±	1048718.6±	2770.97±	13" PVC WATER
5	440586.6±	1049546.6±	2798.43±	8.5" METAL GAS
6	440636.3±	1049616.4±	2796.85±	13" PVC Water
7	440607.6±	1051218.6±	2800.99±	13.5" CONCRETE Water
8	440628.5±	1053081.9±	2826.61±	13.5" CONCRETE Water
9	440675.3±	1053487.5±	2832.27±	9.5" PVC Water
10	440659.2±	1050229.8±	2782.96±	8" PVC Water
11	440659.4±	1050293.3±	2782.74±	8.5" PVC Water
12	440586.6±	1049546.6±	2798.43±	4.5" PLASTIC UNK

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CITY OF TUCSON

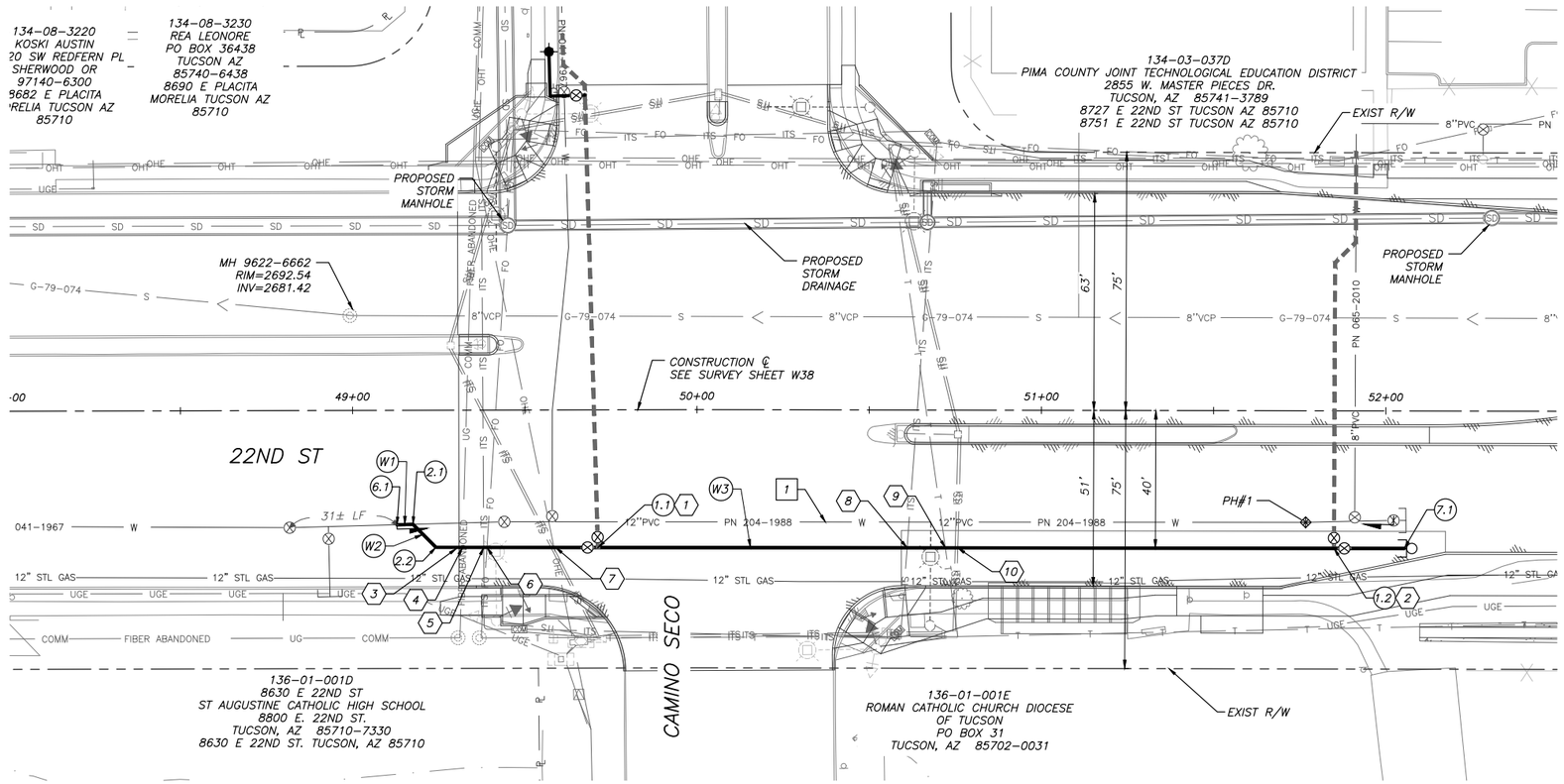
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

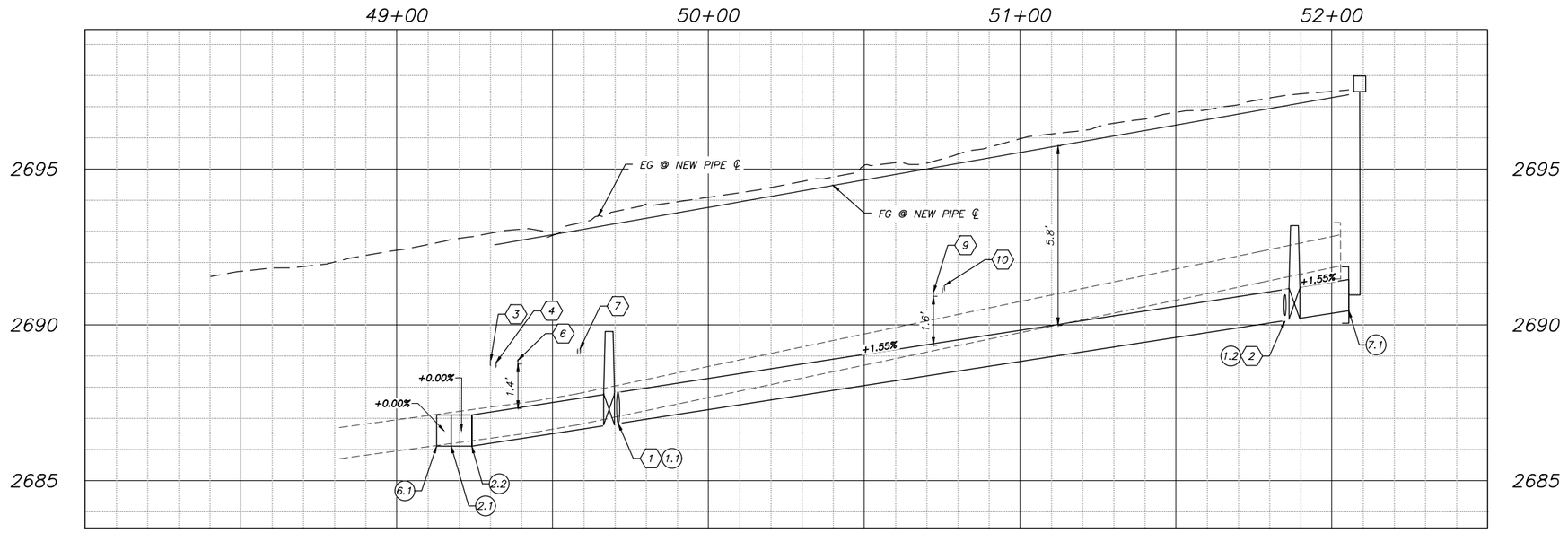
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NOT FOR CONSTRUCTION

POTHOLE DATA

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	268 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: NO SCALE HORZ: NO SCALE	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		





REMOVE / ABANDON NOTES

1 STA 49+08.6, 33.3' RT TO STA 52+02.3, 31.8' RT
REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 291± LF

CONSTRUCTION NOTES

1.1 STA 49+71±, 40'± RT, INV ELEV=2686.8±
12" X 12" TEE 1 EA (NPI)
12" GATE VALVE, B&C (N,W) 2 EA

1.2 STA 51+85±, 40'± RT, INV ELEV=2690.1±
12" X 8" TEE 1 EA (NPI)
12" GATE VALVE, B&C (E) 1 EA
8" GATE VALVE, B&C (N) 1 EA

2.1 STA 49+17.47, 33.1' RT (HORIZ)
INV ELEV=2686.11
12" X 45° BEND 1 EA (NPI)

2.2 STA 49+24.11, 39.8' RT (RO)
INV ELEV=2686.11
12" X 45° BEND 1 EA (NPI)

6.1 STA 49+12.8, 33.2' RT
INV ELEV=2686.11
CONNECT TO EXIST 12" CA PIPE 1 EA

7.1 STA 52+05.4, 39.9' RT
INV ELEV=2690.45
2" DRAIN VALVE ASSEMBLY PER TW SD-400 1 EA (NPI)

REFERENCE NOTES

1 FOR LATERAL PLAN & PROFILE, SEE SHEET W23
2 FOR LATERAL PLAN & PROFILE, SEE SHEET W24
3 STA 49+30±, 40'± RT, INV ELEV=2688.7±
EXIST ITS
4 STA 49+32±, 40'± RT, INV ELEV=2688.7±
ABAND FIBER
5 STA 49+38±, 33'± RT,
PROPOSED ITS
6 STA 49+39±, 40'± RT, INV ELEV=2688.7±
EXIST FIBER
7 STA 49+58±, 40'± RT, INV ELEV=2689.1±
EXIST ITS
8 STA 50+61±, 40'± RT,
PROPOSED ITS
9 STA 50+72±, 40'± RT, INV ELEV=2690.9±
EXIST COM
10 STA 50+76±, 40'± RT, INV ELEV=2691.1±
EXIST ITS

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N88°12'08"E	5	12" DI
W2	S45°09'34"E	9	12" DI
W3	N89°50'26"E	281	12" DI

W6 OF W39

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

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NOT FOR CONSTRUCTION

22ND STREET
STA 48+00 TO STA 52+50

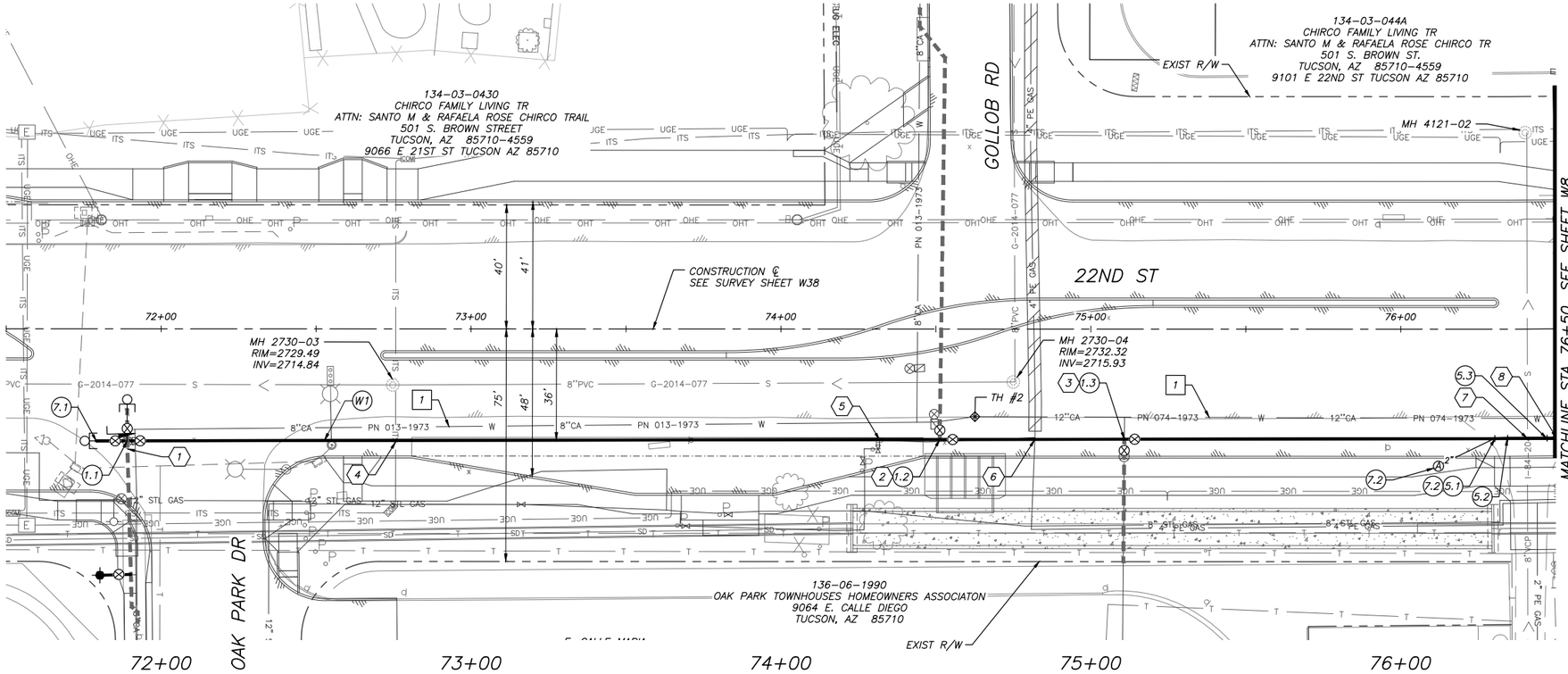
DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	269 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

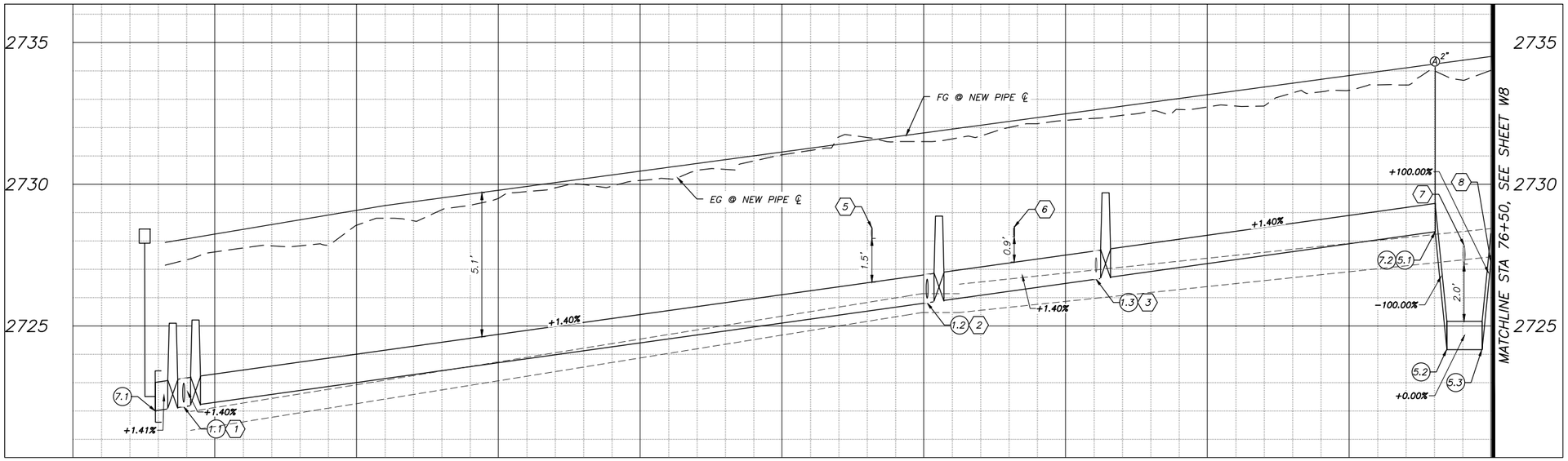
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TW PLAN NO 4-014-2025





REMOVE / ABANDON NOTES

1 STA 71+83.3, 32.5' RT TO STA 76+50.0, 29.3' RT
REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 471± LF

CONSTRUCTION NOTES

1.1 STA 71+89±, 36'± RT, INV ELEV=2722.1±
12" X 8" CROSS 1 EA (NPI)
12" GATE VALVE, B&C (E,W) 2 EA
8" GATE VALVE, B&C (N) 1 EA

1.2 STA 74+51±, 36'± RT, INV ELEV=2725.8±
12" X 8" TEE 1 EA (NPI)
12" GATE VALVE, B&C (E) 1 EA
8" GATE VALVE, B&C (N) 1 EA

1.3 STA 75+11±, 36'± RT, INV ELEV=2726.7±
12" X 6" TEE 1 EA (NPI)
12" GATE VALVE, B&C (E) 1 EA
6" GATE VALVE, B&C (S) 1 EA

5.1 STA 76+30.34, 35.3' RT (VERT)
INV ELEV=2728.32
5.2 STA 76+34.50, 35.2' RT (VERT)
INV ELEV=2724.16
5.3 STA 76+46.90, 35.2' RT (VERT)
INV ELEV=2724.16
12" X 45° BEND 3 EA (NPI)

7.1 STA 71+79.1, 36.1' RT
INV ELEV=2722.01
2" DRAIN VALVE ASSEMBLY PER TW SD-400 1 EA (NPI)

7.2 STA 76+30.36, 35.2' RT (LOCATION OF TAP)
INV ELEV=2728.32
STA 76+12.14, 44.2' RT (LOCATION OF ARV)
INV ELEV=2734.00
2" ARV PER TW SD-331 1 EA

REFERENCE NOTES

1 FOR LATERAL PLAN & PROFILE, SEE SHEET W24
2 FOR LATERAL PLAN & PROFILE, SEE SHEET W25
3 FOR LATERAL PLAN & PROFILE, SEE SHEET W25
4 STA 72+76±, 36'± RT, PROPOSED ITS
5 STA 74+32±, 36'± RT, INV ELEV=2728.1± EXIST 8" STL GAS (TO BE RELOCATED BY OTHERS)
6 STA 74+82±, 36'± RT, INV ELEV=2728.2± EXIST 4" PE GAS (TO BE RELOCATED BY OTHERS)
7 STA 76+41±, 35'± RT, INV ELEV=2727.2± EXIST 8" VCP SEWER
REPLACE 15 LF OF EXISTING UNKNOWN SEWER PIPE USING ASTM D3034 SDR 26 OR ANSI/AWWA C900 SDR 25 PVC PIPE, PER PCRWRD STD. 108. EXISTING SLOPE SHALL BE MAINTAINED IN KIND. VERTICAL SEPARATION SHALL MEET OR EXCEED THE REQUIRED DISTANCES PROVIDED BY PCRWRD STD. 108.
8 STA 76+50±, 35'± RT, INV ELEV=2727.3± MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°46'11"E	468	12" DI

W7 OF W39

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
NOT FOR
CONSTRUCTION

22ND STREET
STA 71+50 TO STA 76+50

DESIGNED BY: SMM	DATE 08/25	FIELD BOOK NO.	270 OF 316
DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		

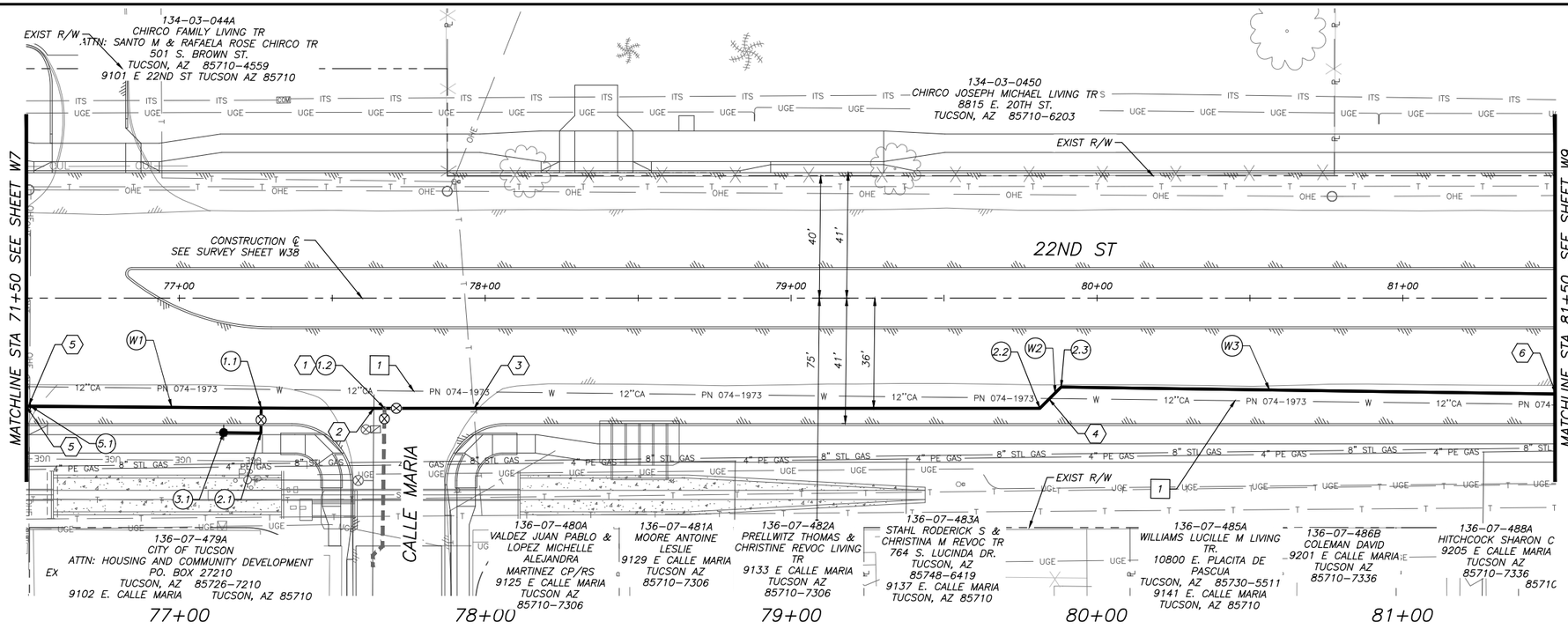
TW PLAN NO 4-014-2025

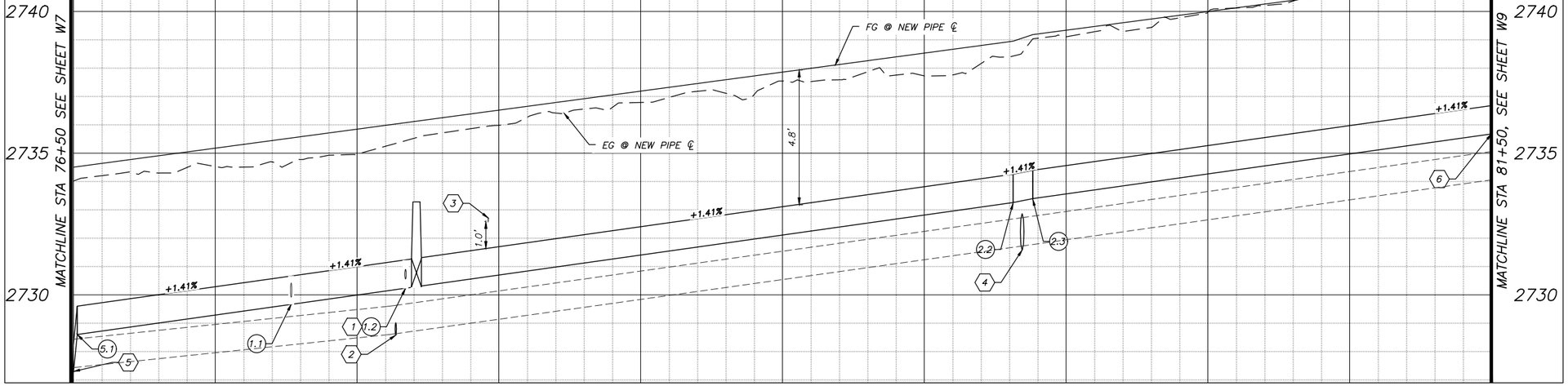
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REMOVE / ABANDON NOTES

1 STA 76+50.0, 28.9' RT TO STA 81+50.0, 35.0' RT
REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 500± LF

CONSTRUCTION NOTES

1.1 STA 77+27±, 36'± RT, INV ELEV=2729.7±
12" X 6" TEE 1 EA (NPI)
6" GATE VALVE, B&C 1 EA

1.2 STA 77+67±, 36'± RT, INV ELEV=2730.2±
12" X 4" TEE 1 EA (NPI)
12" GATE VALVE, B&C (E) 1 EA
4" GATE VALVE, B&C (S) 1 EA

2.1 STA 77+26.69, 44.1' RT (HORIZ)
INV ELEV=2729.67
6" X 90° BEND 1 EA (NPI)

2.2 STA 79+81.34, 36.0' RT (HORIZ)
INV ELEV=2733.24

2.3 STA 79+88.27, 29.1' RT (HORIZ)
INV ELEV=2733.38
12" X 45° BEND 2 EA (NPI)

3.1 STA 77+14.5, 43.9' RT
FIRE HYDRANT ASSEMBLY PER SD 500 1 EA

5.1 STA 76+51.34, 35.3' RT (VERT)
INV ELEV=2728.60
12" X 45° BEND 1 EA (NPI)

REFERENCE NOTES

1 FOR LATERAL PLAN & PROFILE, SEE SHEET W26
2 STA 77+64±, 36'± RT, INV ELEV=2728.6±
EXIST 4" CA WATER
3 STA 77+96±, 36'± RT, INV ELEV=2732.6±
EXIST COM
4 STA 79+85±, 33'± RT, INV ELEV=2731.6±
EXIST 12" CA WATER
5 STA 76+50.0, 35.4' RT
INV ELEV=2727.26
MATCHLINE
6 STA 81+50.0, 31.3' RT
INV ELEV=2735.68
MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°28'33"E	332	12" DI
W2	N44°22'13"E	10	12" DI
W3	S89°49'46"E	162	12" DI

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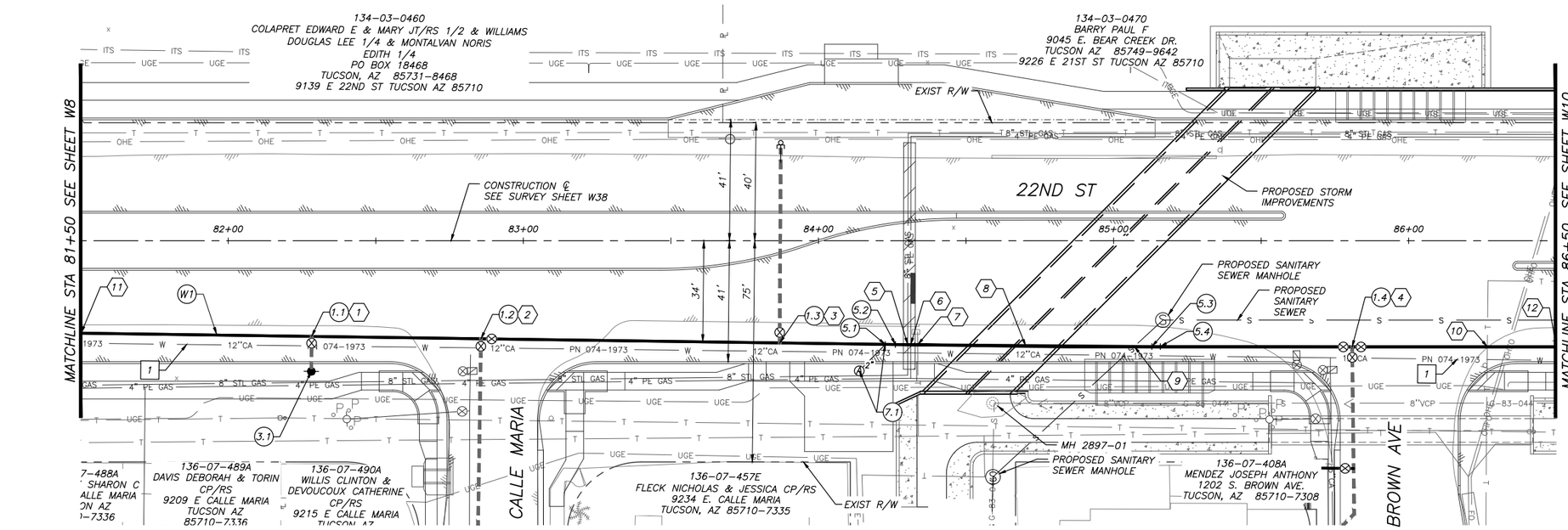
CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
NOT FOR
CONSTRUCTION

22ND STREET
STA 76+50 TO STA 81+50

DESIGNED BY: SMM	DATE 08/25	FIELD BOOK NO.	271 OF 316
DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		

TW PLAN NO 4-014-2025



REMOVE/ ABANDON NOTES

1 STA 81+50.0, 35.0' RT TO STA 86+50.0, 40.5' RT
REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 500± LF

CONSTRUCTION NOTES

1.1 STA 82+28±, 32'± RT, INV ELEV=2736.8±
12" X 6" TEE 1 EA (NPI)
6" GATE VALVE, B&C (S) 1 EA

1.2 STA 82+86±, 33'± RT, INV ELEV=2737.6±
12" X 4" TEE 1 EA (NPI)
12" GATE VALVE, B&C (E) 1 EA
4" GATE VALVE, B&C (S) 1 EA

1.3 STA 83+87±, 35'± RT, INV ELEV=2739.0±
12" X 12" TEE 1 EA (NPI)
12" GATE VALVE, B&C (N) 1 EA

1.4 STA 85+81±, 36'± RT, INV ELEV=2739.9±
12" X 6" TEE 1 EA (NPI)
12" GATE VALVE, B&C (E,W) 2 EA
6" GATE VALVE, B&C (S) 1 EA

3.1 STA 82+28.2, 44.3' RT
FIRE HYDRANT ASSEMBLY PER SD 500 1 EA

5.1 STA 84+22.59, 35.1' RT (VERT)
INV ELEV=2739.52

5.2 STA 84+23.94, 35.2' RT (VERT)
INV ELEV=2736.05

5.3 STA 85+12.95, 35.9' RT (VERT)
INV ELEV=2736.05

5.4 STA 85+15.84, 35.9' RT (VERT)
INV ELEV=2738.94
12" X 45° BEND 4 EA (NPI)

7.1 STA 84+22.64, 35.1' RT (LOCATION OF TAP)
INV ELEV=2739.52
STA 84+13.82, 44.1' RT (LOCATION OF ARV)
INV ELEV=2745.11
2" ARV PER TW SD-331 1 EA

REFERENCE NOTES

1 FOR LATERAL PLAN & PROFILE, SEE SHEET W26
2 FOR LATERAL PLAN & PROFILE, SEE SHEET W27
3 FOR LATERAL PLAN & PROFILE, SEE SHEET W27
4 FOR LATERAL PLAN & PROFILE, SEE SHEET W28
5 STA 84+30±, 35'± RT, ???
EXIST 8" STL GAS
6 STA 84+31±, 35'± RT, INV ELEV=2740.2±
EXIST 4" PE GAS
7 STA 84+34±, 35'± RT, ???
EXIST COM
8 STA 84+52.2, 35.4' RT TO STA 84+81.2, 35.6' RT
PROPOSED STORM CULVERT
9 STA 85+07±, 36'± RT, ???
PROPOSED SANITARY SEWER
10 STA 86+27±, 36'± RT, ???
EXIST COM
11 STA 81+50.0, 31.3' RT
INV ELEV=2735.68
MATCHLINE
12 STA 86+50.0, 36.0' RT
INV ELEV=2741.00
MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°54'20"E	500	12" DI

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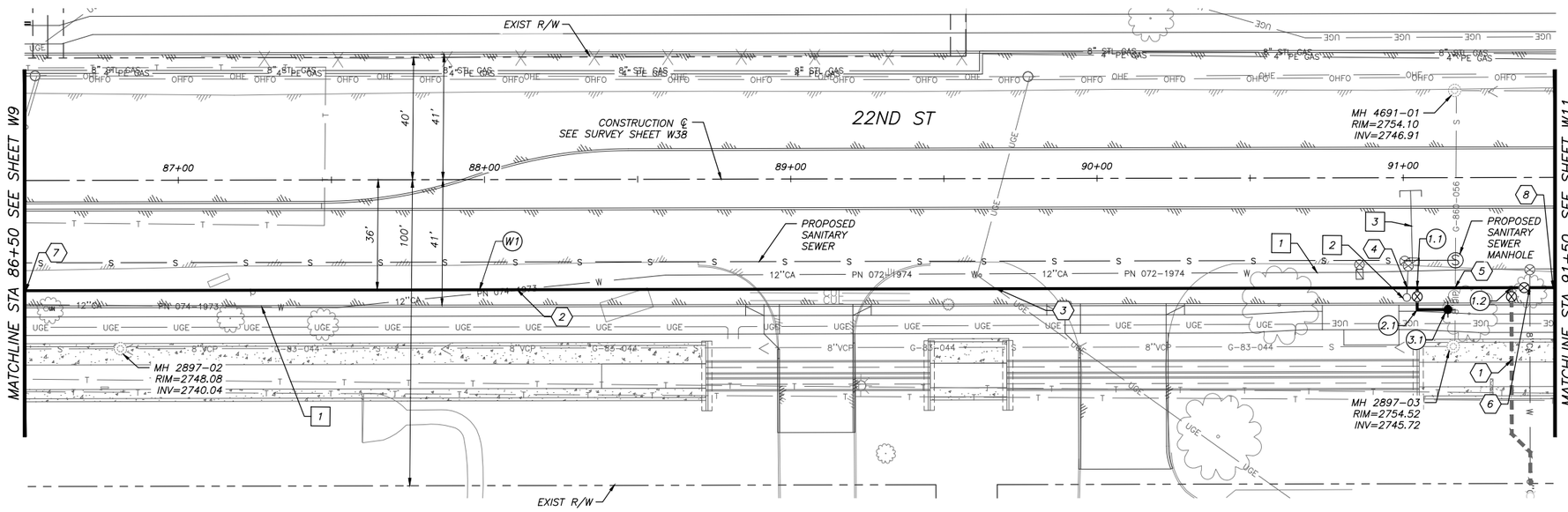
W9 OF W39

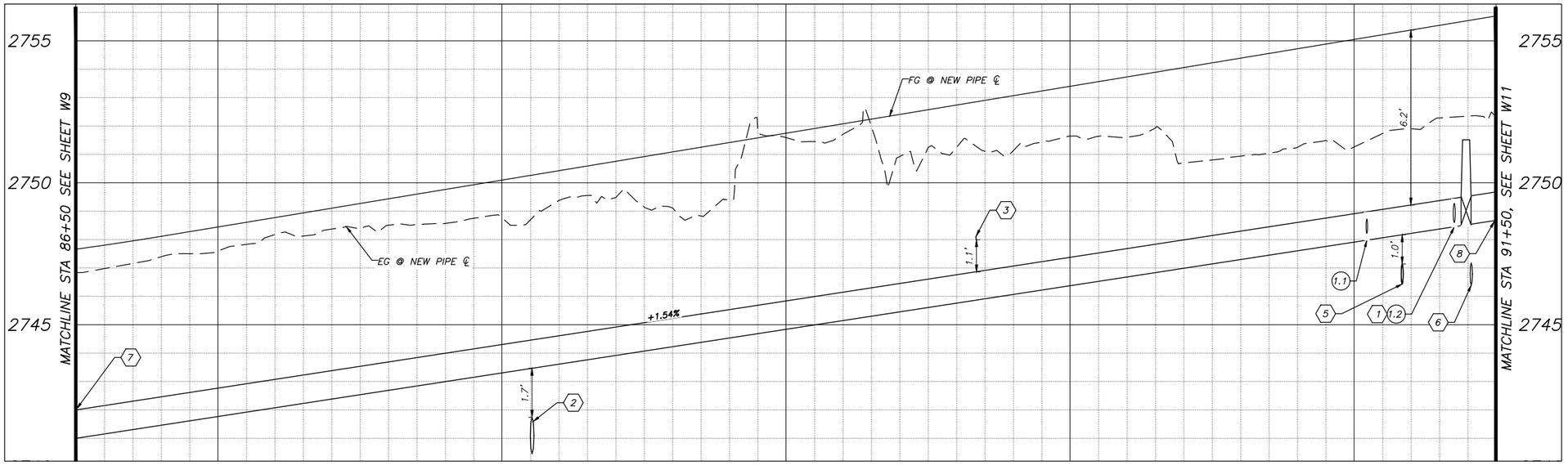
CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

22ND STREET
STA 81+50 TO STA 86+50

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	272 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4-014-2025





REMOVE / ABANDON NOTES

1. STA 86+50.0, 40.5' RT TO STA 91+50.0, 29.9' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 500± LF
2. STA 91+01.1, 39.1' RT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES, EXIST 6" DIP, & GATE VALVE WITH BOX COVER — 1 EA
3. STA 91+01.2, 36.0' RT TO STA 91+02.4, 4.2' RT
   REMOVE & DISPOSE EXIST 6" DIP, APPURTENANCES, & GATE VALVE WITH BOX COVER — 33± LF

CONSTRUCTION NOTES

1.1. STA 91+04±, 36'± RT, INV ELEV=2748.0±
   12" X 6" TEE — 1 EA
   6" GATE VALVE, B&C (S) — 1 EA

1.2. STA 91+35±, 36'± RT, INV ELEV=2748.4±
   12" X 8" TEE — 1 EA (NPI)
   12" GATE VALVE, B&C (E) — 1 EA
   8" GATE VALVE, B&C (S) — 1 EA

2.1. STA 91+04.48, 43.1' RT (HORIZ)
   INV ELEV=2747.97
   6" x 90° BEND — 1 EA

3.1. STA 91+14.5, 43.1' RT
   FIRE HYDRANT ASSEMBLY PER SD 500 — 1 EA

REFERENCE NOTES

1. FOR LATERAL PLAN & PROFILE, SEE SHEET W29
2. STA 88+11±, 36'± RT, INV ELEV=2740.5±
   EXIST 12" CA WATER
3. STA 89+67±, 36'± RT, INV ELEV=2748.0±
   EXIST ELECTRIC (TO BE RELOCATED BY OTHERS)
4. STA 91+01±, 36'± RT, INV ELEV=0.0±
   EXIST 6" DIP WATER
5. STA 91+17±, 36'± RT, INV ELEV=0.0±
   EXIST SANITARY SEWER (TO BE RELOCATED BY OTHERS)
6. STA 91+41±, 36'± RT, INV ELEV=2746.4±
   EXIST 8" CA WATER
7. STA 86+50.0, 36.0' RT
   INV ELEV=2741.00
   MATCHLINE
8. STA 91+50.0, 36.0' RT
   INV ELEV=2748.67
   MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°22'13"E	500	12" DI

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NO.	BY	DATE	REVISION	APPR.	DATE

W10 OF W39

CITY OF TUCSON

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%

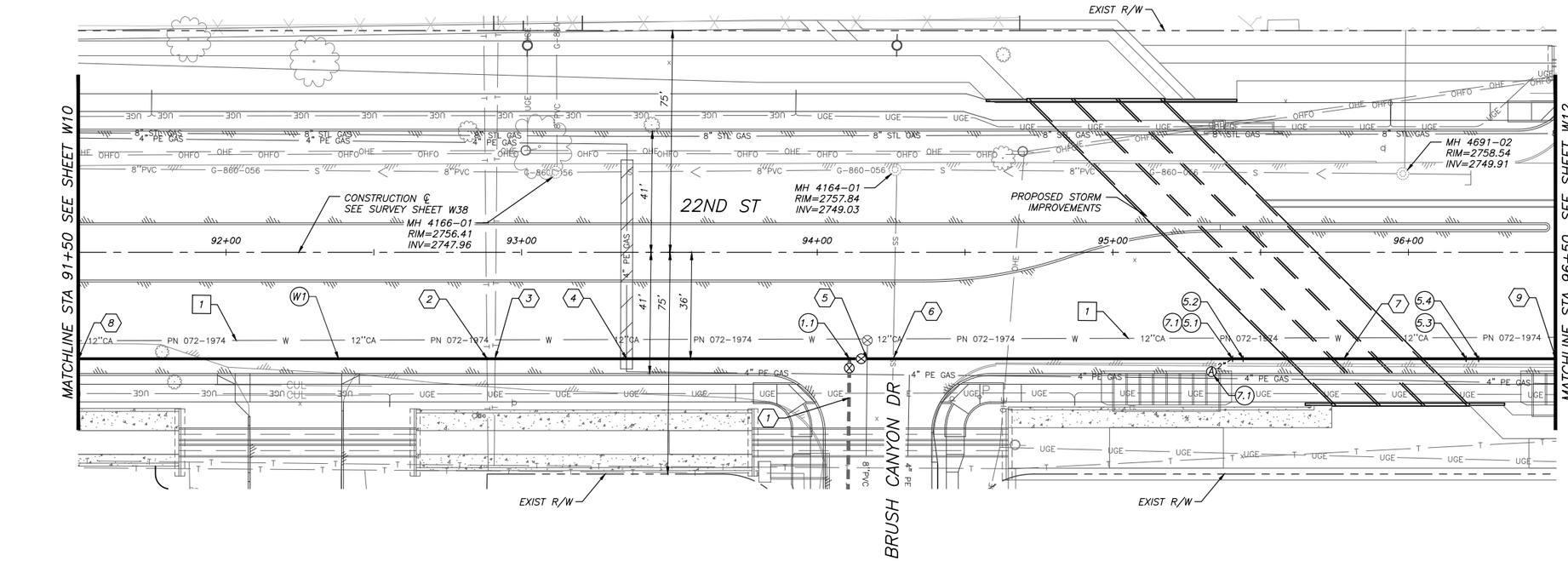
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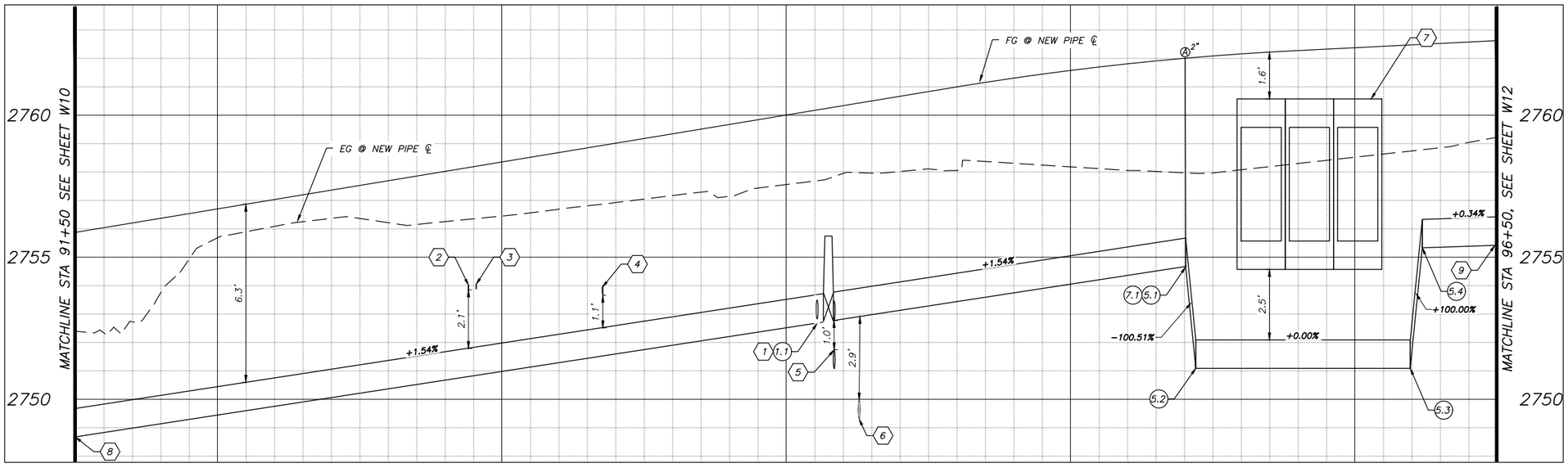
CONSTRUCTION

22ND STREET
STA 86+50 TO STA 91+50

DESIGNED BY: SMM	DATE 08/25	FIELD BOOK NO.	273 OF 316
DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		

TW PLAN NO 4-014-2025





REMOVE / ABANDON NOTES

1. STA 91+50.0, 30.7' RT TO STA 96+50.0, 28.8' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER 500± LF

CONSTRUCTION NOTES

1.1. STA 94+11±, 36'± RT, INV ELEV=2752.7±
   12" X 8" TEE 1 EA (NPI)
   12" GATE VALVE, B&C (E) 1 EA
   8" GATE VALVE, B&C (S) 1 EA

5.1. STA 95+25.34, 36.0' RT (VERT)
   INV ELEV=2754.66

5.2. STA 95+28.21, 36.0' RT (VERT)
   INV ELEV=2751.09

5.3. STA 96+35.53, 36.0' RT (VERT)
   INV ELEV=2752.16

5.4. STA 96+40.36, 36.0' RT (VERT)
   INV ELEV=2755.33
   12" x 45° BEND 4 EA (NPI)

7.1. STA 95+40.50, 36.0' RT (LOCATION OF TAP)
   INV ELEV=2754.66
   STA 95+33.31, 40.4' RT (LOCATION OF ARV)
   INV ELEV=2762.00
   2" ARV PER TW SD-331 1 EA

REFERENCE NOTES

1. FOR LATERAL PLAN & PROFILE, SEE SHEET W29
2. STA 92+88±, 36'± RT, INV ELEV=2753.8±
   EXIST COM
3. STA 92+91±, 36'± RT, INV ELEV=2753.9±
   EXIST COM
4. STA 93+35±, 36'± RT, INV ELEV=2753.7±
   EXIST 4" PE GAS (TO BE RELOCATED BY OTHERS)
5. STA 94+17±, 36'± RT, INV ELEV=2751.1±
   EXIST 8" PVC WATER
6. STA 94+26±, 36'± RT, INV ELEV=2749.3±
   EXIST SANITARY SEWER
7. STA 95+52.8, 29.1' RT TO STA 95+96.8, 29.0' RT
   PROPOSED STORM CULVERT
8. STA 91+50.0, 36.0' RT
   INV ELEV=2748.67
   MATCHLINE
9. STA 96+50.0, 36.0' RT
   INV ELEV=2755.42
   MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°22'13"E	500	12" DI

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NO.	BY	DATE	REVISION	APPR.	DATE

CITY OF TUCSON

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%

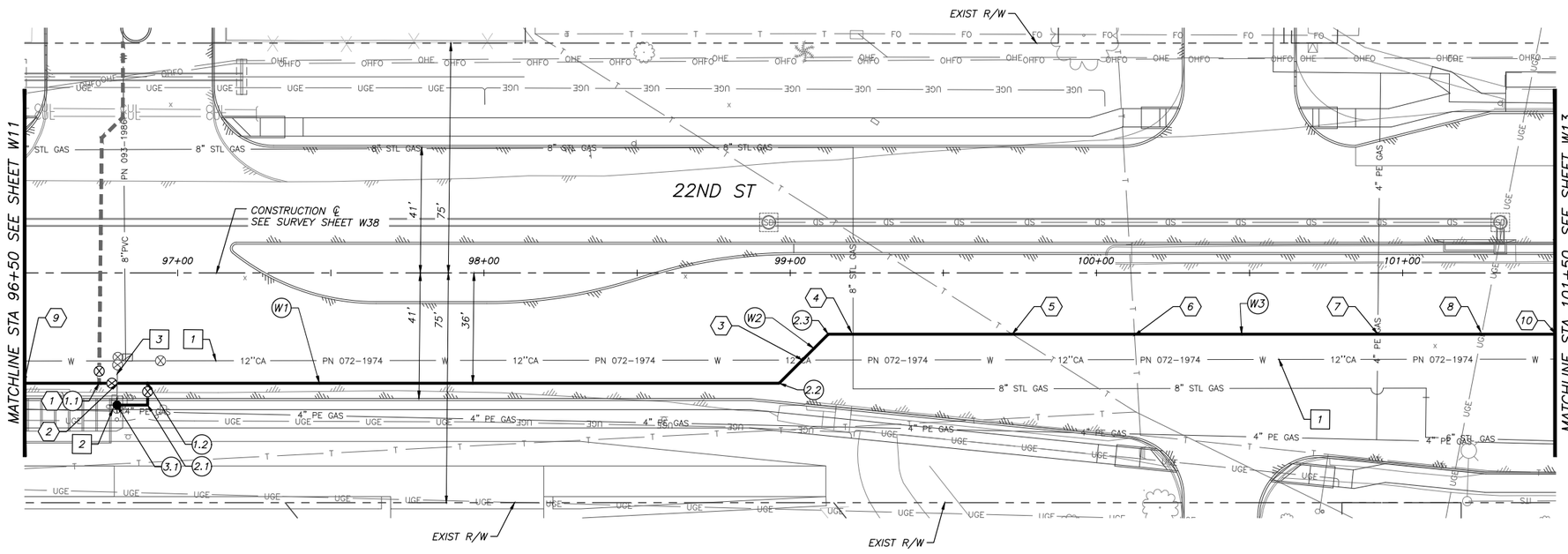
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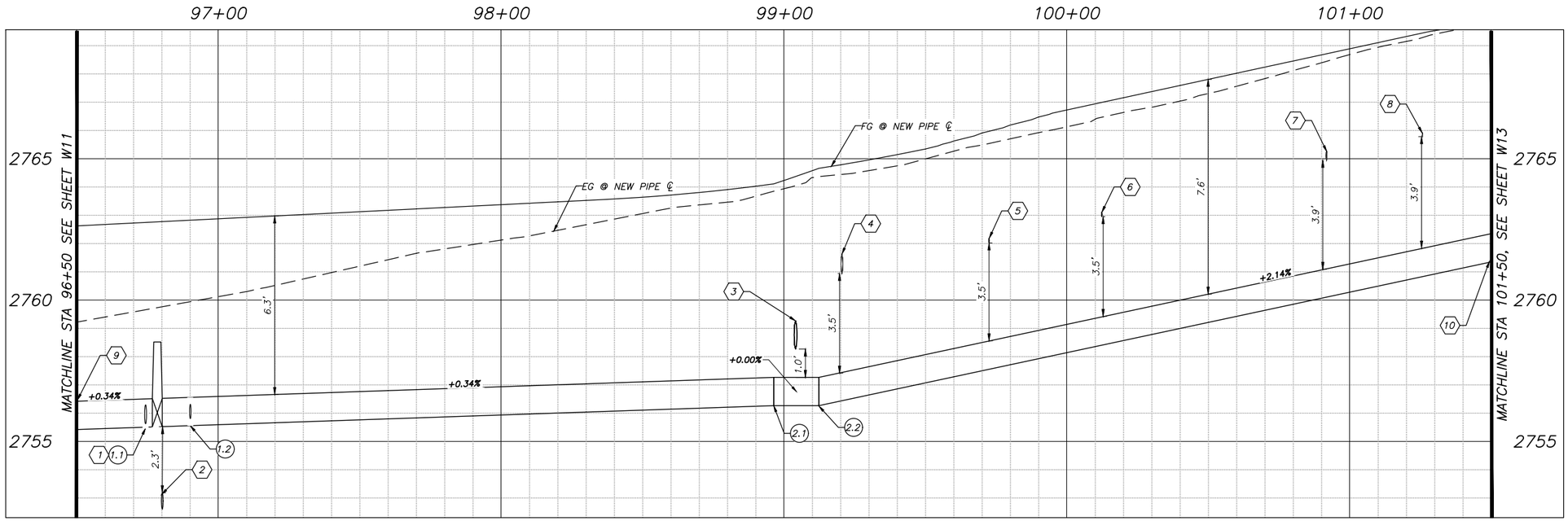
CONSTRUCTION

22ND STREET
STA 91+50 TO STA 96+50

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	274 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4-014-2025





REMOVE / ABANDON NOTES

1. STA 96+50.0, 28.8' RT TO STA 101+50.0, 28.1' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 500± LF
2. STA 96+90.2, 38.8' RT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES, EXIST 6" DIP, & GATE VALVE WITH BOX COVER — 1 EA
3. STA 96+80.4, 28.7' RT TO STA 96+80.1, 42.7' RT
   REMOVE EXIST EXIST 6" DIP, APPURTENANCES & GATE VALVE WITH BOX COVER — 15± LF

CONSTRUCTION NOTES

(1.1) STA 96+74±, 36'± RT, INV ELEV=2755.5±
- 12" X 8" TEE — 1 EA (NPI)
- 12" GATE VALVE, B&C (E) — 1 EA
- 8" GATE VALVE, B&C (N) — 1 EA

(1.2) STA 96+90±, 36'± RT, INV ELEV=2755.6±
- 12" X 6" TEE (S) — 1 EA (NPI)
- 6" GATE VALVE, B&C — 1 EA

(2.1) STA 96+90.17, 43.1' RT (HORIZ)
- INV ELEV=2755.56
- 6" X 90° BEND — 1 EA (NPI)

(2.2) STA 98+96.41, 36.0' RT (HORIZ)
- INV ELEV=2756.26

(2.3) STA 99+12.41, 20.0' RT (HORIZ)
- INV ELEV=2756.25
- 12" X 45° BEND — 2 EA (NPI)

(3.1) STA 96+80.2, 43.1' RT
- FIRE HYDRANT ASSEMBLY PER SD 500 — 1 EA

REFERENCE NOTES

1. FOR LATERAL PLAN & PROFILE, SEE SHEET W30
2. STA 96+80±, 36'± RT, INV ELEV=2752.6±
   EXIST 6" PVC WATER
3. STA 99+04±, 28'± RT, INV ELEV=2758.3±
   EXIST 12" CA WATER
4. STA 99+21±, 20'± RT, INV ELEV=2760.9±
   EXIST 8" STL GAS
5. STA 99+73±, 20'± RT, INV ELEV=2762.0±
   EXIST COM
6. STA 100+12±, 20'± RT, INV ELEV=2763.1±
   EXIST COM
7. STA 100+92±, 20'± RT, INV ELEV=2764.9±
   EXIST 4" PE GAS
8. STA 101+26±, 20'± RT, INV ELEV=2765.8±
   EXIST ELECTRIC
9. STA 96+50.0, 36.0' RT
   INV ELEV=2755.42
   MATCHLINE
10. STA 101+50.0, 20.0' RT
    INV ELEV=2761.37
    MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°22'13"E	246	12" DI
W2	N44°22'13"E	23	12" DI
W3	N89°22'15"E	238	12" DI

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
NOT FOR
CONSTRUCTION

22ND STREET
STA 96+50 TO STA 101+50

DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	08/25		275 OF 316
DRAWN BY:	DATE	SCALE:	
DRS/JAL	08/25	VERT: 1" = 2'	PLAN NO.
CHECKED BY:	DATE	HORIZ: 1" = 20'	1-2025-004
CAW	08/25		

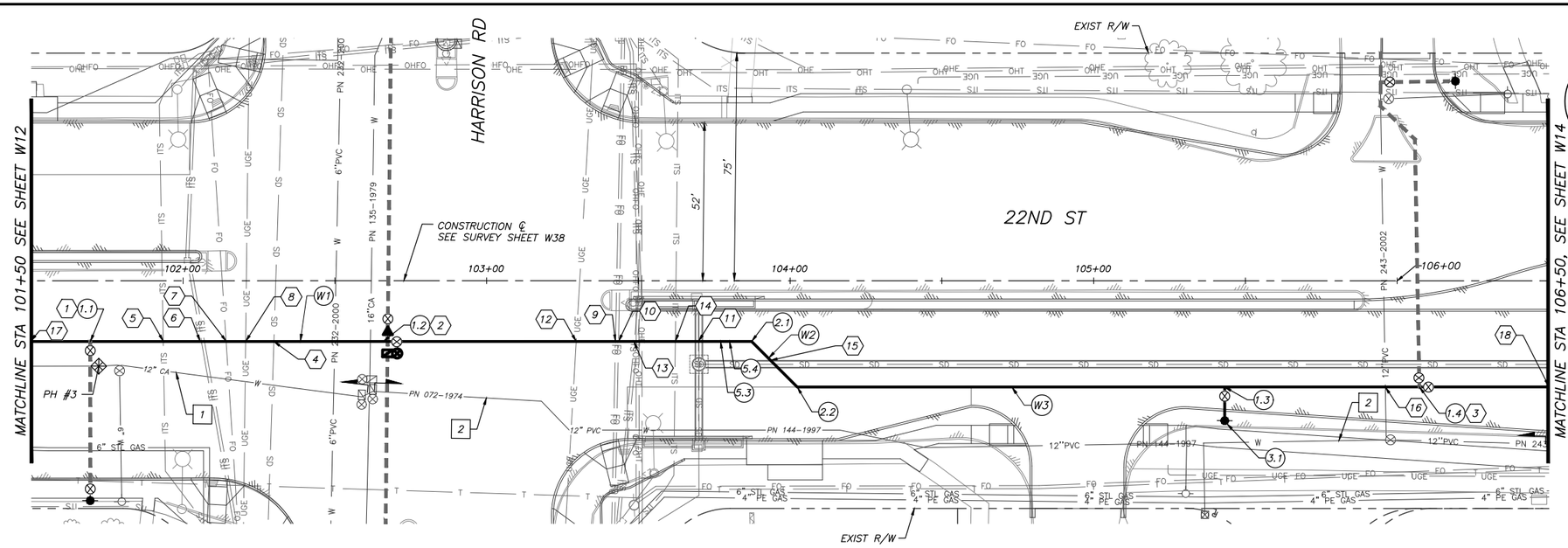
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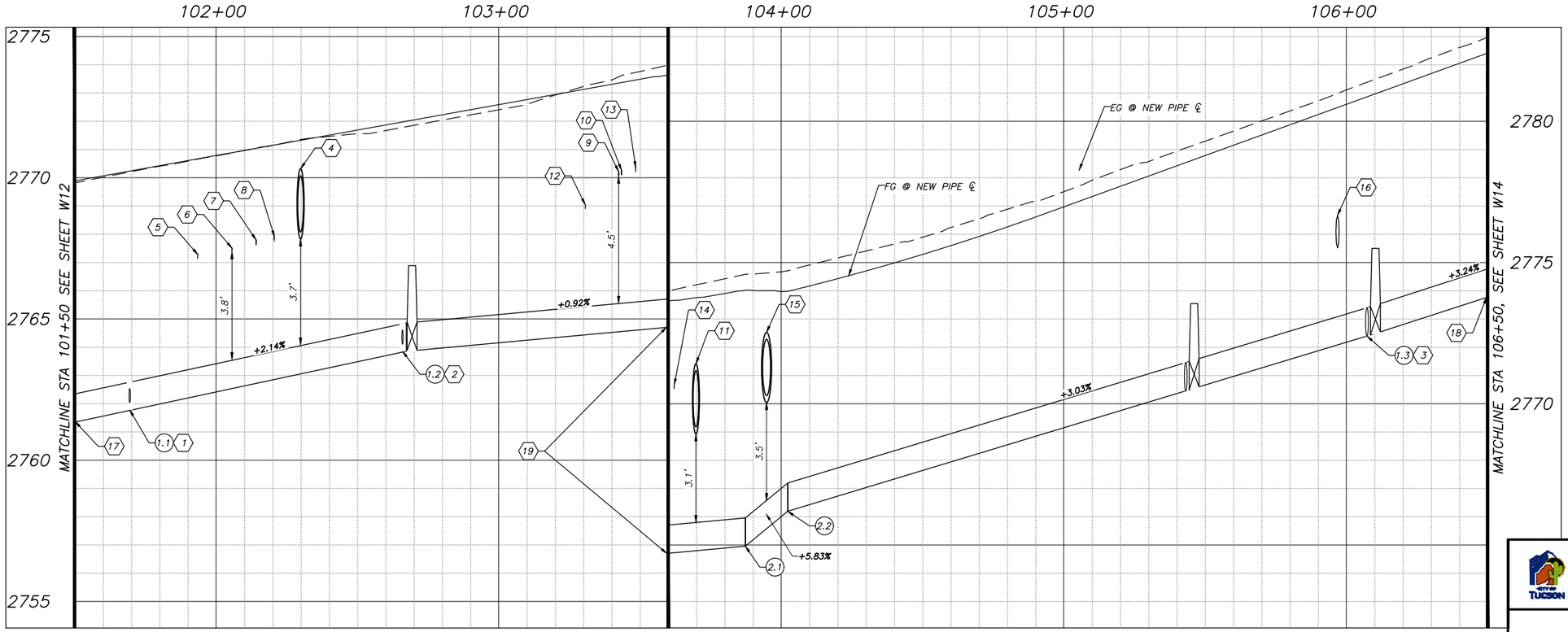
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REMOVE / ABANDON NOTES

1. STA 101+50.0, 28.1' RT TO STA 102+62.5, 36.4' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 114± LF
2. STA 102+62.5, 36.4' RT TO STA 106+50.0, 53.8' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 392± LF

CONSTRUCTION NOTES

1.1 STA 101+69±, 20'± RT, INV ELEV=2761.8±
- 12" X 6" TEE — 1 EA (NPI)
- 6" GATE VALVE, B&C — 1 EA

1.2 STA 102+66±, 20'± RT, INV ELEV=2763.9±
- 24" X 12" CROSS — 1 EA (NPI)
- 12" GATE VALVE, B&C (E) — 1 EA
- 16" GATE VALVE, B&C (N) — 1 EA
- 24" BUTTERFLY VALVE, B&C (S) — 1 EA
- 24" X 16" REDUCER (N) — 1 EA (NPI)

1.3 STA 105+43±, 35'± RT, INV ELEV=2772.5±
- 12" x 6" TEE — 1 EA (NPI)
- 6" GATE VALVE, B&C (S) — 1 EA

1.4 STA 106+07±, 35'± RT, INV ELEV=2772.4±
- 12" x 12" TEE — 1 EA (NPI)
- 12" GATE VALVE, B&C (N,E) — 2 EA

2.1 STA 103+87.32, 20.0' RT (RO)
INV ELEV=2764.96

2.2 STA 104+02.34, 35.0' RT (RO)
INV ELEV=2766.20
- 12" X 45° BEND — 2 EA (NPI)

3.1 STA 105+43.2, 46.1' RT
- FIRE HYDRANT ASSEMBLY — 1 EA

REFERENCE NOTES

1. FOR LATERAL PLAN & PROFILE, SEE SHEET W30
2. FOR LATERAL PLAN & PROFILE, SEE SHEET W31
3. FOR LATERAL PLAN & PROFILE, SEE SHEET W32
4. STA 102+30±, 20'± RT, INV ELEV=2767.8±
   EXIST STORM
5. STA 101+93±, 20'± RT, INV ELEV=2767.2±
   EXIST ELECTRIC
6. STA 102+06±, 20'± RT, INV ELEV=2767.4±
   EXIST ELECTRIC
7. STA 102+14±, 20'± RT, INV ELEV=2767.6±
   EXIST FIBER
8. STA 102+21±, 20'± RT, INV ELEV=2767.8±
   EXIST ELECTRIC
9. STA 103+42±, 20'± RT, INV ELEV=2770.0±
   EXIST FIBER
10. STA 103+43±, 20'± RT, INV ELEV=2770.1±
    EXIST FIBER
11. STA 103+70±, 20'± RT, INV ELEV=2768.9±
    PROPOSED STORM DRAIN
12. STA 103+30±, 20'± RT, INV ELEV=2768.9±
    EXIST ELECTRIC
13. STA 103+48±, 20'± RT, INV ELEV=2770.2±
    EXIST ITS
14. STA 103+62±, 20'± RT, INV ELEV=2770.5±
    EXIST ITS
15. STA 103+95±, 27'± RT, INV ELEV=2770.0±
    PROPOSED STORM DRAIN
16. STA 105+96±, 35'± RT, INV ELEV=2775.5±
    EXIST 12" PVC WATER
17. STA 101+50.0, 20.0' RT
    INV ELEV=2761.37
    MATCHLINE
18. STA 106+50.0, 35.0' RT
    INV ELEV=2773.78
    MATCHLINE
19. STA 103+59.4, 20.0' RT
    INV ELEV=2764.70
    MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°22'15"E	237	12" DI
W2	N45°37'45"W	21	12" DI
W3	N89°22'15"E	248	12" DI

W13 OF W39

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
NOT FOR
CONSTRUCTION

22ND STREET
STA 101+50 TO STA 106+50

DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	08/25		276 OF 316
DRAWN BY:	DATE	SCALE:	
DRS/JAL	08/25	VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY:	DATE		
CAW	08/25		

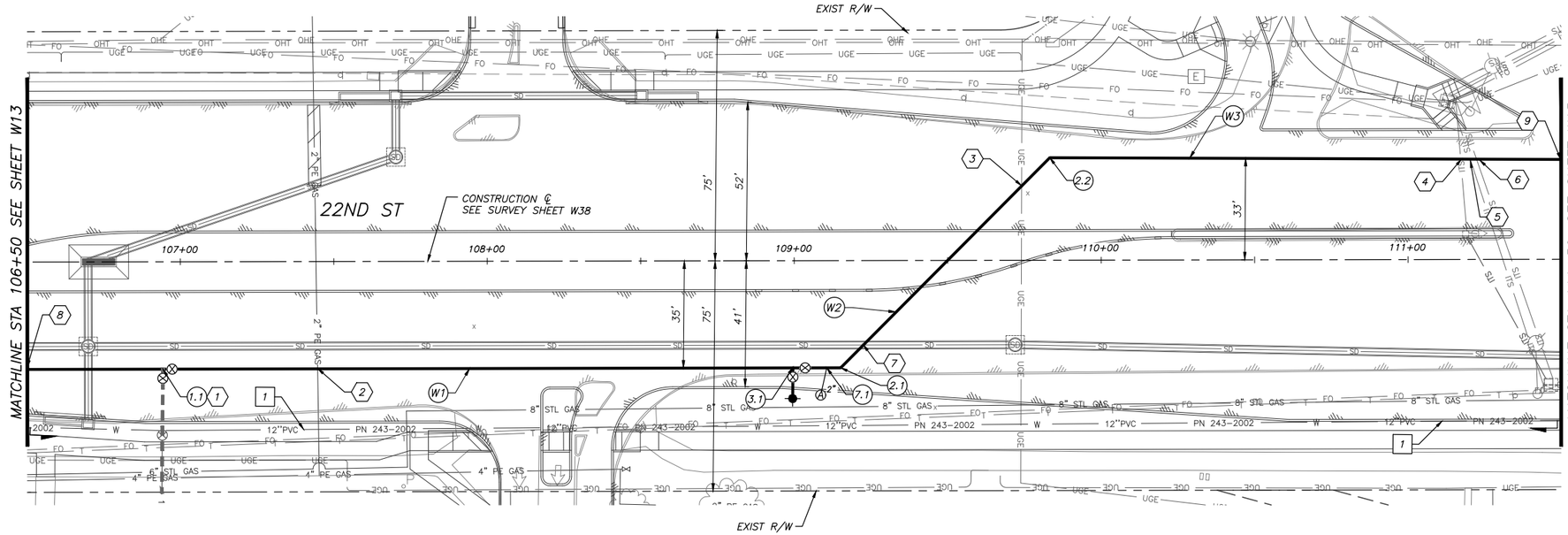
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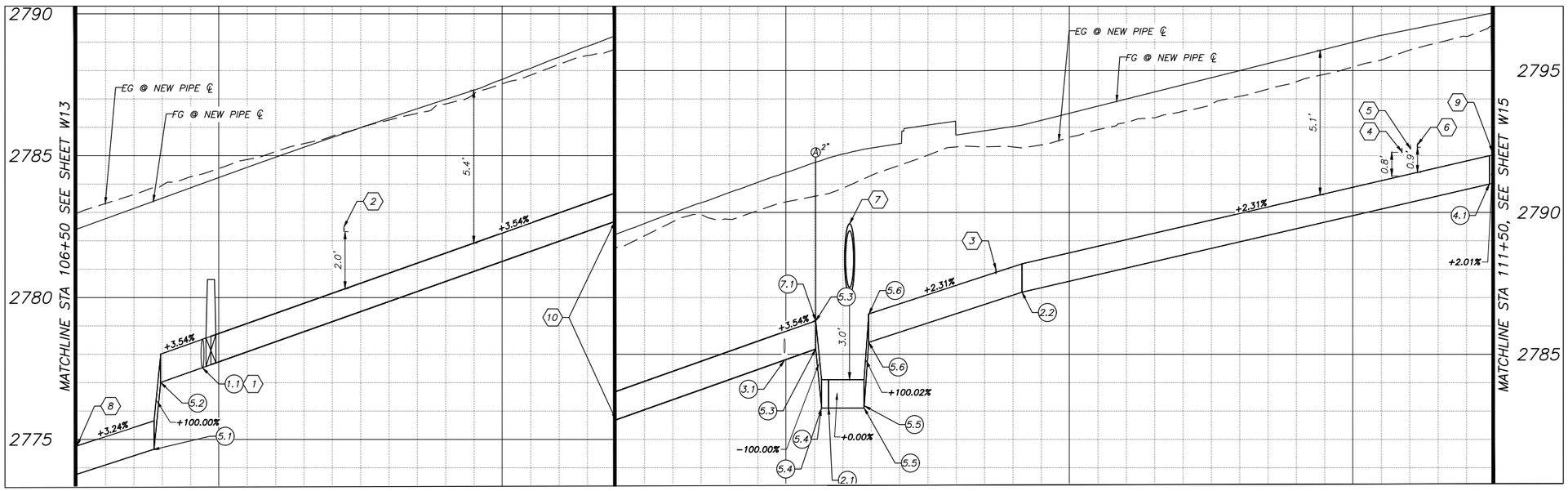
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WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°22'15"E	265	12" DI
W2	N44°22'15"E	97	12" DI
W3	N89°40'34"E	167	12" DI

REMOVE / ABANDON NOTES

1 STA 106+50.0, 53.8' RT TO STA 111+50.0, 52.4' RT
REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 500± LF

CONSTRUCTION NOTES

1.1 STA 106+94±, 35'± RT, INV ELEV=2778.1±
12" X 12" TEE 1 EA (NPI)
12" GATE VALVE, B&C (S,E) 2 EA

2.1 STA 109+15.07, 34.9' RT (RO)
INV ELEV=2783.11

2.2 STA 109+83.32, 33.4' LT (RO)
INV ELEV=2783.84
12" X 45° BEND 2 EA (NPI)

3.1 STA 109+00±, 35'± RT, INV ELEV=2781.0±
FIRE HYDRANT ASSEMBLY 1 EA
12" GATE VALVE (E), B&C 1 EA
6" GATE VALVE (S), B&C 1 EA
12" X 6" TEE 1 EA (NPI)

4.1 STA 111+48.2, 32.5' LT
INV ELEV=2791.00
GRADE BREAK 1 EA (NPI)

5.1 STA 106+77.20, 34.9' RT (VERT)
INV ELEV=2785.42

5.2 STA 106+79.55, 34.9' RT (VERT)
INV ELEV=2777.01

5.3 STA 109+10.52, 34.9' RT (VERT)
INV ELEV=2785.19

5.4 STA 109+12.60, 34.9' RT (VERT)
INV ELEV=2783.11

5.5 STA 109+27.59, 22.4' RT (VERT)
INV ELEV=2783.11

5.6 STA 109+29.23, 20.7' RT (VERT)
INV ELEV=2785.42
12" X 45° BEND 6 EA (NPI)

7.1 STA 109+10.5, 34.9' RT (LOCATION OF TAP)
INV ELEV=2785.19
STA 109+08.6, 43.8' RT (LOCATION OF ARV)
INV ELEV=2791.8±
2" ARV PER TW SD-331 1 EA

REFERENCE NOTES

1 FOR LATERAL PLAN & PROFILE, SEE SHEET W32
2 STA 107+45±, 35'± RT, INV ELEV=2782.3±
EXIST 2" PE GAS
3 STA 109+74±, 24'± LT, INV ELEV=2787.9±
EXIST ELECTRIC
4 STA 111+17±, 33'± LT, INV ELEV=2792.1±
EXIST ELECTRIC
5 STA 111+20±, 33'± LT, INV ELEV=2792.2±
EXIST ELECTRIC
6 STA 111+23±, 33'± LT, INV ELEV=2792.3±
EXIST ELECTRIC
7 STA 109+22±, 27'± RT, INV ELEV=2783.1±
PROPOSED STORM DRAIN
8 STA 106+50.0, 35.0' RT
INV ELEV=2773.78
MATCHLINE
9 STA 111+50.0, 32.5' LT
INV ELEV=2791.03
MATCHLINE
10 STA 108+39.6, 34.9' RT
INV ELEV=2782.68
IDENTICAL POINTS

W14 OF W39

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
NOT FOR
CONSTRUCTION

22ND STREET
STA 106+50 TO STA 111+50

DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	08/25		277 OF 316
DRAWN BY:	DATE	SCALE:	PLAN NO.
DRS/JAL	08/25	VERT: 1" = 2'	1-2025-004
CHECKED BY:	DATE	HORIZ: 1" = 20'	
CAW	08/25		

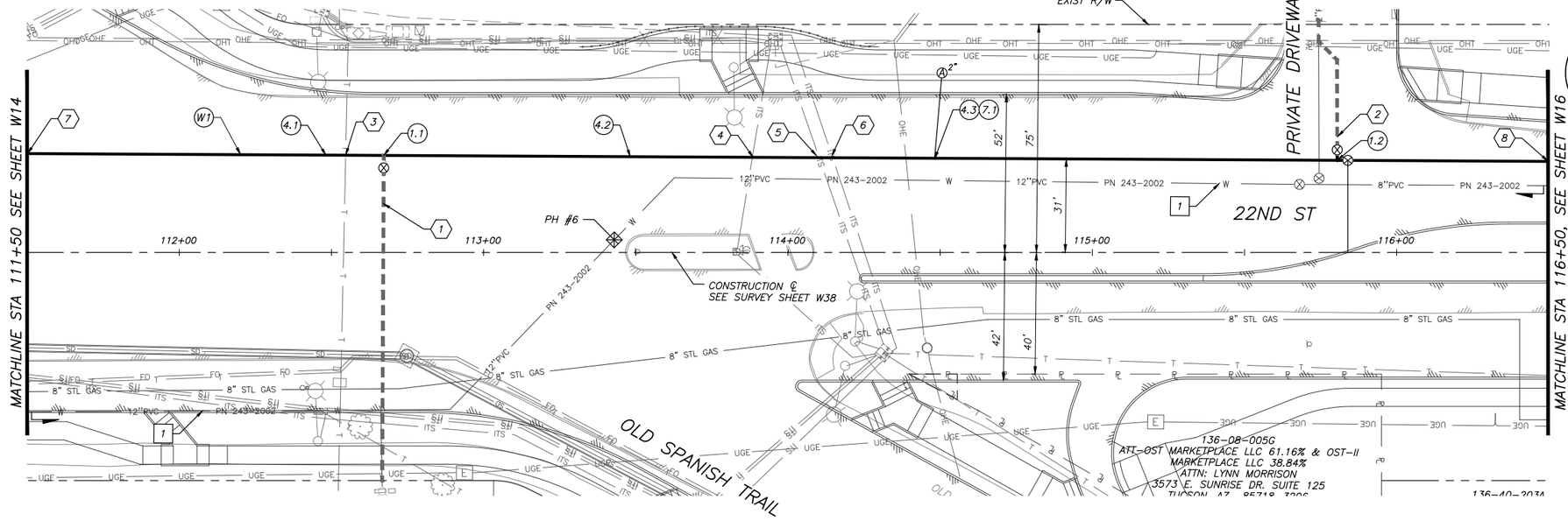
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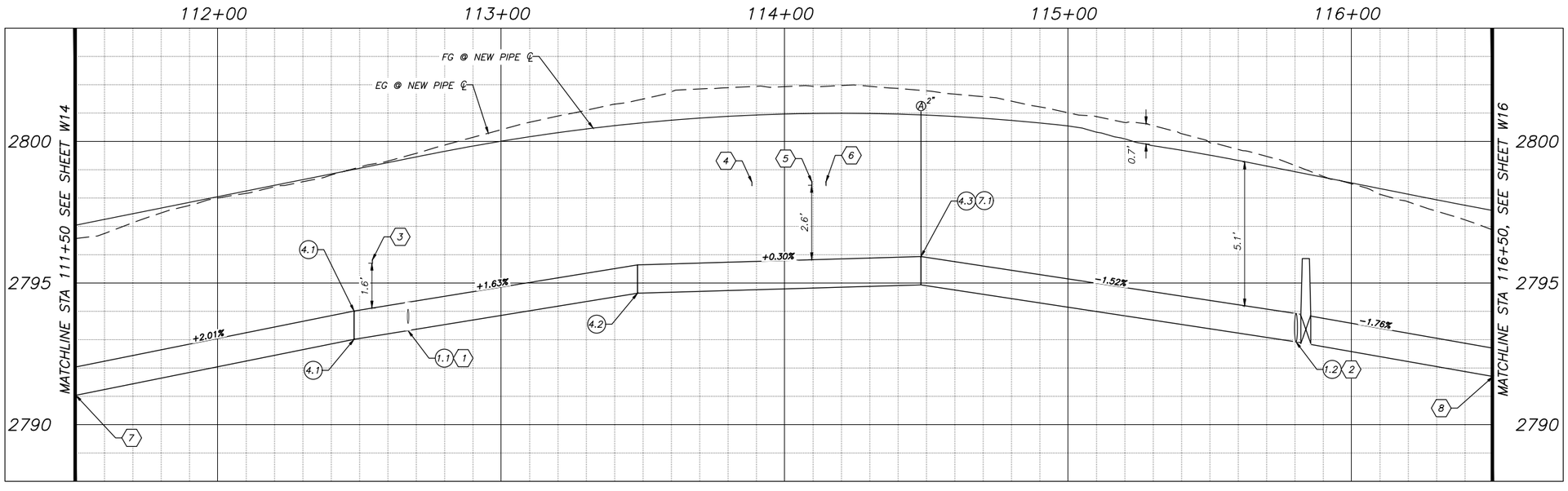
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REMOVE / ABANDON NOTES

1 STA 111+50.0, 52.4' RT TO STA 116+50.0, 21.9' LT
REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 530± LF

CONSTRUCTION NOTES

1.1 STA 112+67±, 32'± LT, INV ELEV=2789.8±
12" X 6" TEE 1 EA (NPI)
6" GATE VALVE, B&C (S) 1 EA

1.2 STA 115+80±, 30'± LT, INV ELEV=2790.8±
12" X 12" TEE 1 EA (NPI)
12" GATE VALVE, B&C (N,E) 2 EA
GRADE BREAK

4.1 STA 112+48.2, 32.0' LT
INV ELEV=2793.01

4.2 STA 113+48.2, 31.5' LT
INV ELEV=2794.64

4.3 STA 114+48.2, 31.0' LT
INV ELEV=2794.94
GRADE BREAK 3 EA

7.1 STA 114+48.2, 31.0' LT (LOCATION OF TAP)
INV ELEV=2794.94
STA 114+50.6, 59.0' LT (LOCATION OF ARV)
INV ELEV=2800.9±
2" AIR RELEASE VALVE PER SD-330 1 EA

REFERENCE NOTES

1 FOR LATERAL PLAN & PROFILE, SEE SHEET W33

2 FOR LATERAL PLAN & PROFILE, SEE SHEET W33

3 STA 112+55±, 32'± LT, INV ELEV=2795.7±
EXIST COM

4 STA 113+89±, 31'± LT, INV ELEV=2798.4±
EXIST ELECTRIC

5 STA 114+10±, 31'± LT, INV ELEV=2798.4±
EXIST ELECTRIC

6 STA 114+15±, 31'± LT, INV ELEV=2798.4±
EXIST ELECTRIC

7 STA 111+50.0, 32.5' LT
INV ELEV=2791.03
MATCHLINE

8 STA 116+50.0, 30.0' LT
INV ELEV=2791.70
MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°40'34"E	500	12" DI

W15 OF W39

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
NOT FOR
CONSTRUCTION

22ND STREET
STA 111+50 TO STA 116+50

DESIGNED BY:	DATE	FIELD BOOK NO.
SMM	08/25	
DRAWN BY:	DATE	SCALE:
DRS/JAL	08/25	VERT: 1" = 2'
CHECKED BY:	DATE	HORIZ: 1" = 20'
CAW	08/25	

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PLAN NO. 1-2025-004

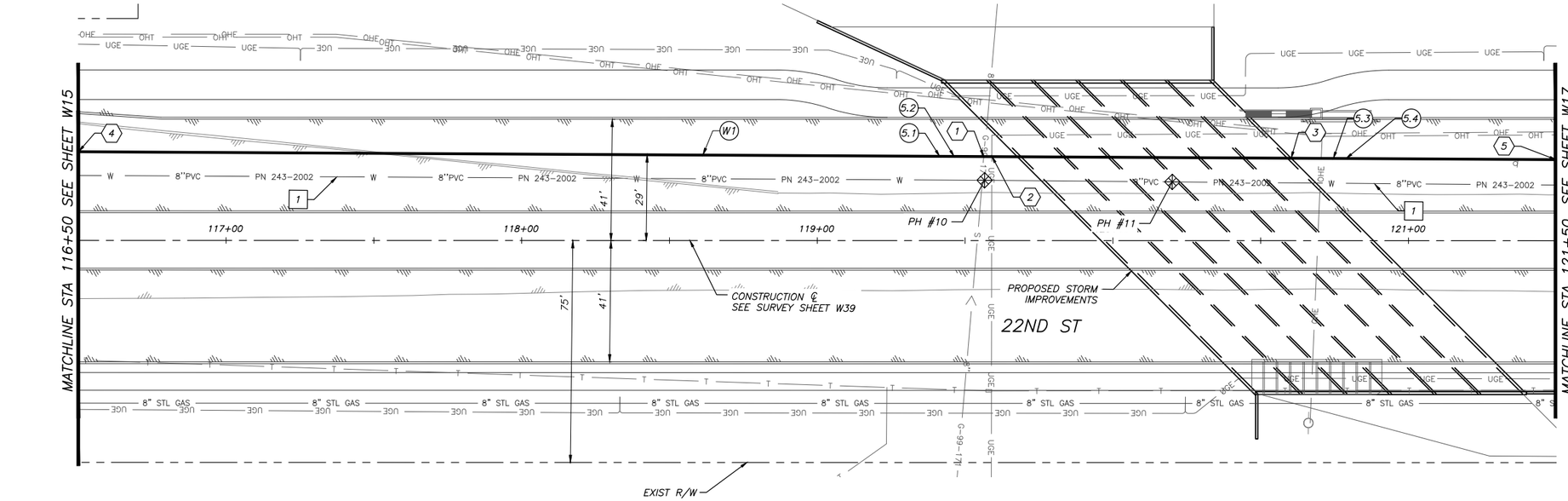
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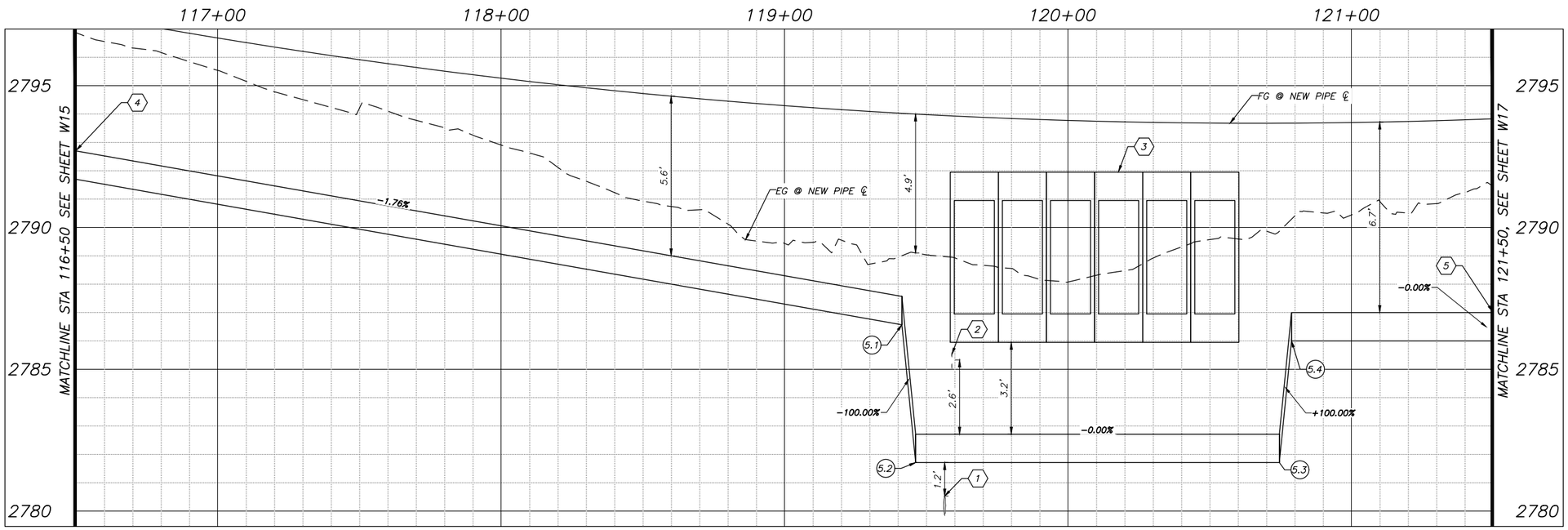
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NO.	BY	DATE	REVISION	APPR.	DATE





REMOVE / ABANDON NOTES

1. STA 116+50.0, 21.9' LT TO STA 121+50.0, 18.7' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 500± LF

CONSTRUCTION NOTES

5.1. STA 119+41.4, 28.5' LT
   INV ELEV=2786.57
5.2. STA 119+46.3, 28.4' LT
   INV ELEV=2781.71
5.3. STA 120+74.5, 27.8' LT
   INV ELEV=2781.71
5.4. STA 120+78.9, 27.8' LT
   INV ELEV=2786.00
   12" X 45° BEND 4 EA (NPI)

REFERENCE NOTES

1. STA 119+56±, 28'± LT, INV ELEV=2779.9±
   EXIST SEWER
2. STA 119+59±, 28'± LT, INV ELEV=2785.0±
   EXIST ELECTRIC
3. STA 120+10±, 28'± LT, INV ELEV=2786.0±
   PROPOSED STORM DRAIN
4. STA 116+50.0, 30.0' LT
   INV ELEV=2791.70
   MATCHLINE
5. STA 121+50.0, 27.4' LT
   INV ELEV=2786.00
   MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°40'34"E	500	12" DI

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W16 OF W39

CITY OF TUCSON

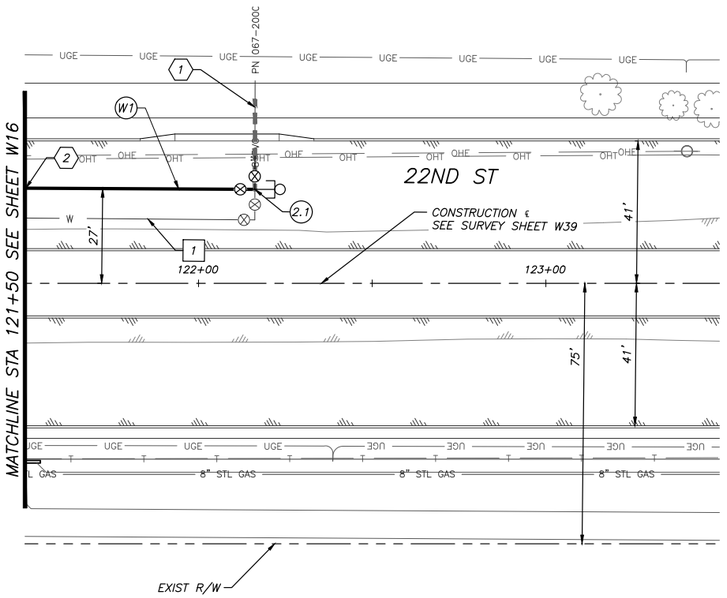
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

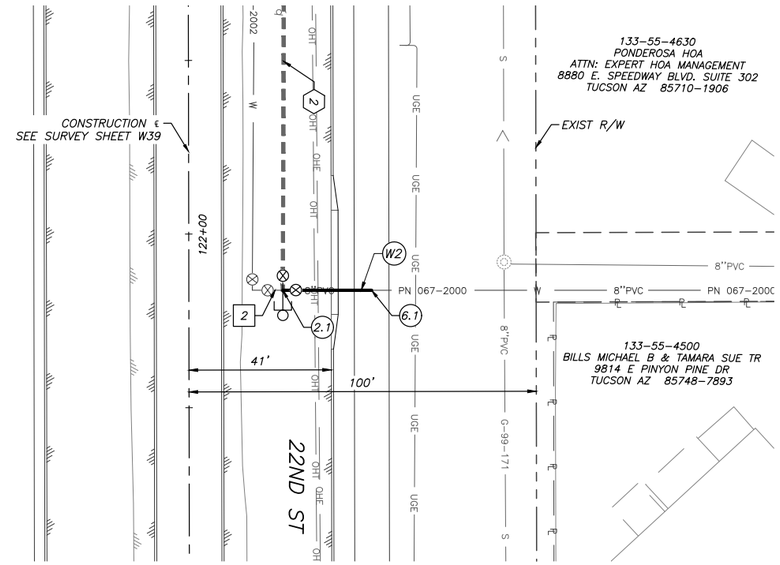
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NOT FOR
CONSTRUCTION

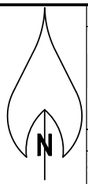
22ND STREET
STA 116+50 TO STA 121+50

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	279 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4-014-2025







REMOVE / ABANDON NOTES

1. STA 121+50.0, 18.7' LT TO STA 122+13.1, 18.3' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 63± LF
2. STA 122+16.2, 18.3' LT TO STA 122+16.3, 52.6' LT TO
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 34± LF

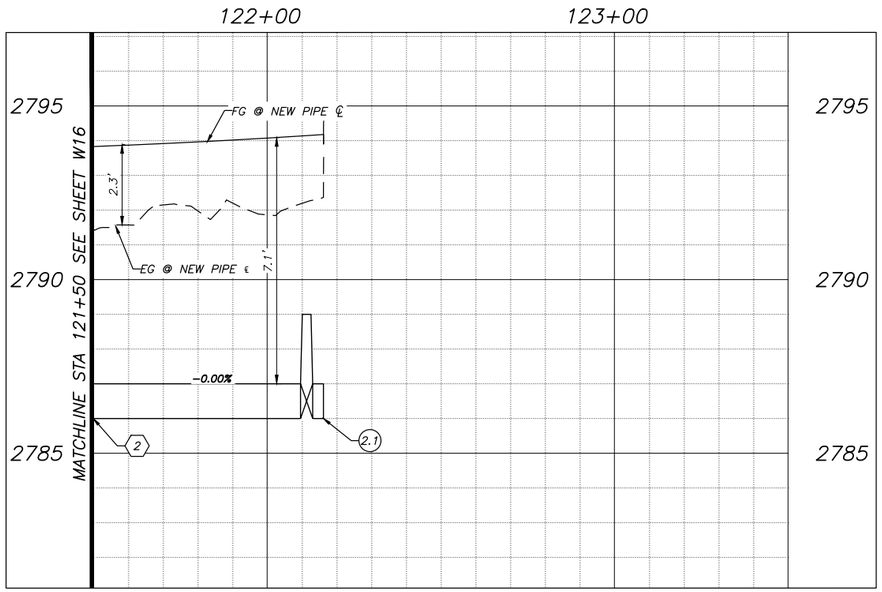
CONSTRUCTION NOTES

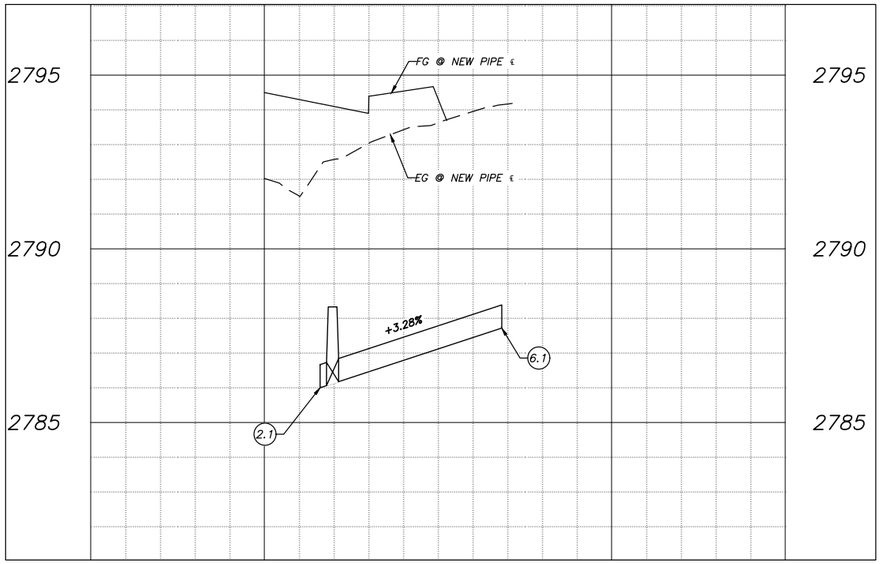
2.1. STA 122+16.22, 27.1' LT (HORIZ)
   INV ELEV=2786.00
   - 12" X 8" CROSS — 1 EA (NPI)
   - 12" GATE VALVE, (W) B&C — 1 EA
   - 8" GATE VALVE, (N) B&C — 1 EA
   - 2" DRAIN VALVE ASSEMBLY PER TW SD-400 — 1 EA (NPI)

6.1. STA 122+16.2, 27.1' LT
   INV ELEV=2786.00
   CONNECT TO EXIST 8" NON CA PIPE
   (SEE PN 119-2002) — 1 EA (NPI)

REFERENCE NOTES

1. STA 122+16±, 27'± LT, ???
   EXIST 8" PVC WATER
2. STA 121+50.0, 27.4' LT
   INV ELEV=2786.00
   MATCHLINE





WATERLINE TABLE			
W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°40'34"E	66	12" DI
W2	N00°31'13"W	26	8" DI

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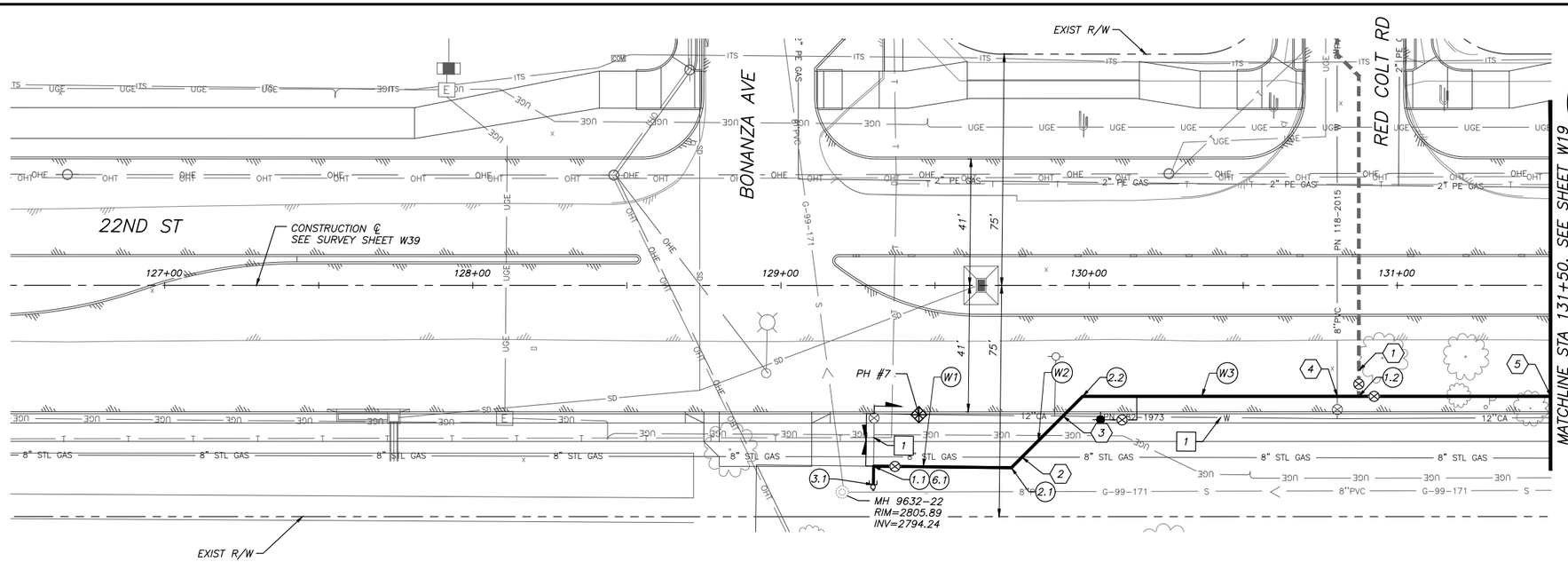
W17 OF W39

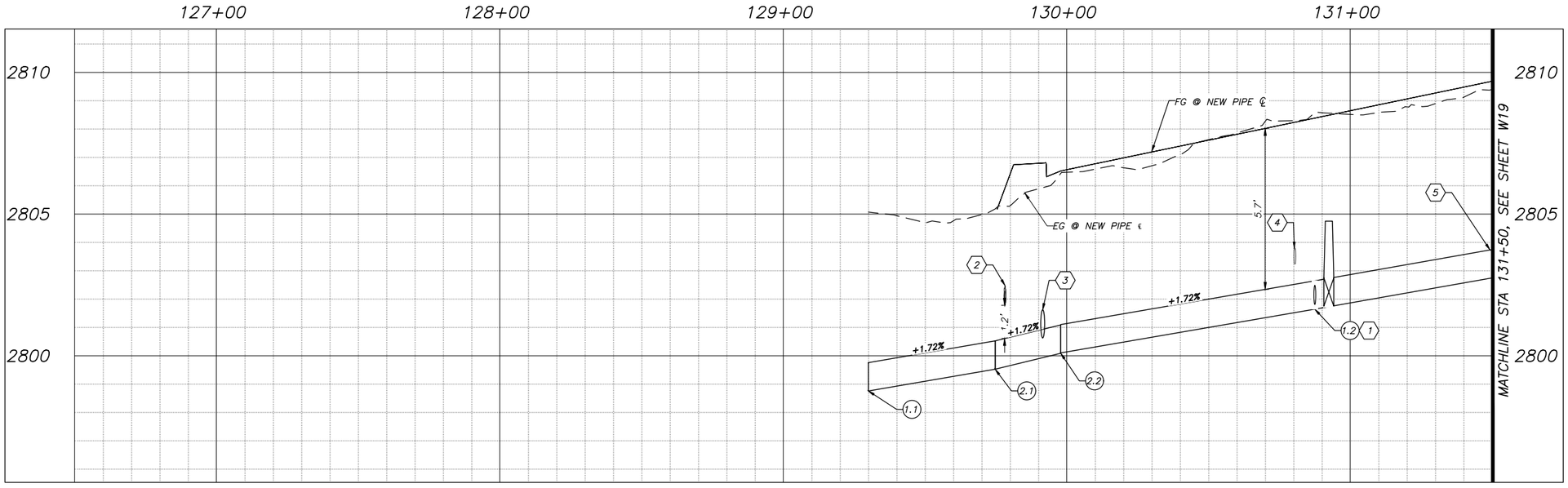
CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

22ND STREET
STA 121+50 TO STA 126+50

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	280 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4-014-2025





REMOVE / ABANDON NOTES

1 STA 129+30.2, 41.6' RT TO STA 131+50.0, 42.9' RT
STA 129+30.0, 58.6' RT TO STA 129+30.0, 41.8' RT
REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 237± LF

CONSTRUCTION NOTES

1.1 STA 129+30±, 59'± RT, ???
12" X 6" TEE — 1 EA (NPI)
12" GATE VALVE, (E) B&C — 1 EA

1.2 STA 130+88±, 36'± RT, INV ELEV=2801.6±
12" X 8" TEE — 1 EA (NPI)
12" GATE VALVE, (E) B&C — 1 EA
8" GATE VALVE, (N) B&C — 1 EA

2.1 STA 129+74.74, 59.1' RT (HORIZ)
INV ELEV=2799.53

2.2 STA 129+97.87, 36.0' RT (HORIZ)
INV ELEV=2800.09
12" X 45° BEND — 2 EA (NPI)

3.1 STA 129+29.8, 64.6' RT
12" RESTRAINED CAP — 1 EA (NPI)

6.1 STA 129+30±, 59'± RT, INV ELEV=2798.8±
CONNECT TO EXIST 6" NON CA PIPE

REFERENCE NOTES

1 FOR LATERAL PLAN & PROFILE, SEE SHEET W33
2 STA 129+78±, 56'± RT, INV ELEV=2801.8±
EXIST 8" STL GAS
3 STA 129+92±, 42'± RT, INV ELEV=2800.6±
EXIST 12" CA WATER
4 STA 130+81±, 36'± RT, INV ELEV=2803.2±
EXIST 12" CA WATER
5 STA 131+50.0, 36.0' RT
INV ELEV=2802.75
MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	S89°58'51"E	20	12" DI
W2	N44°21'32"E	33	12" DI
W3	N89°21'32"E	152	12" DI

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

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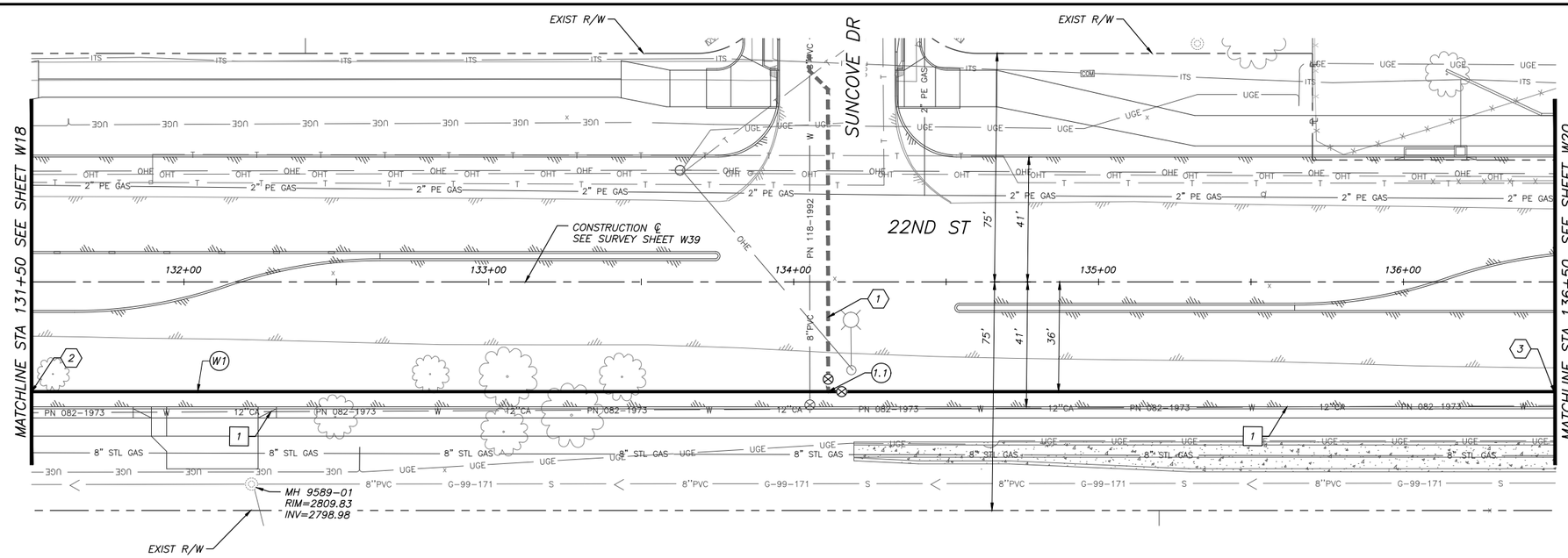
22ND STREET
STA 126+50 TO STA 131+50

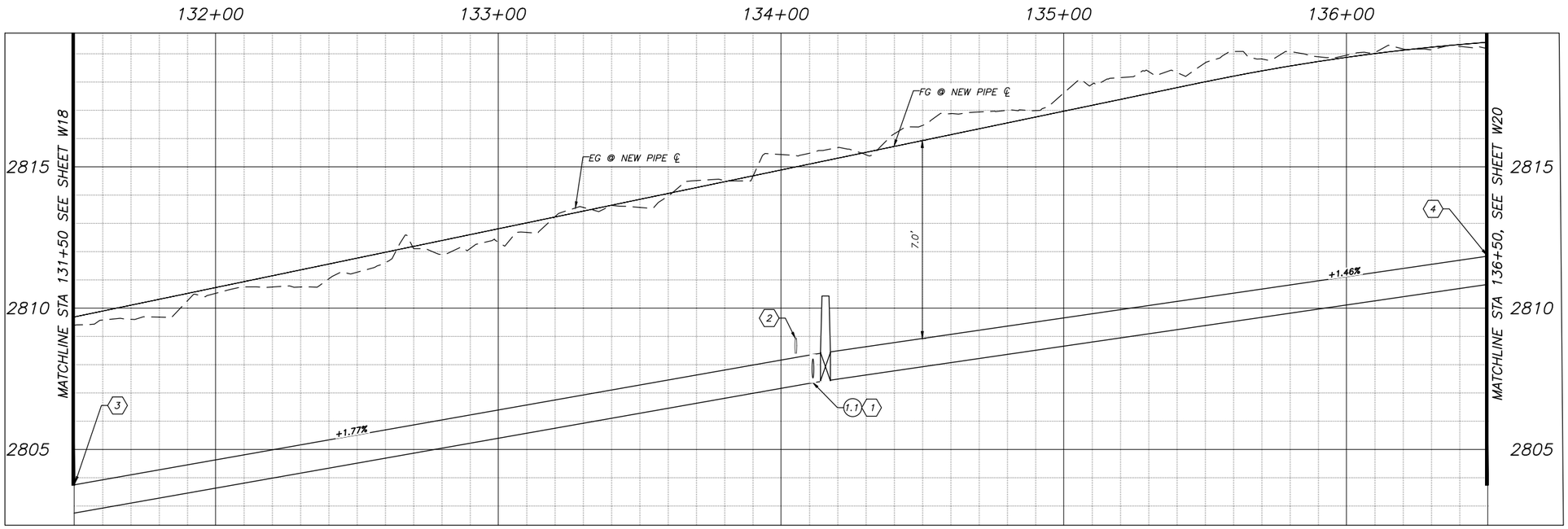
DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	06/25		281 OF 316
DRAWN BY:	DATE	SCALE:	PLAN NO.
DRS/JAL	06/25	VERT: 1" = 2' HORIZ: 1" = 20'	1-2025-004
CHECKED BY:	DATE		
CAW	06/25		

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REMOVE / ABANDON NOTES

1. STA 131+50.0, 42.9' RT TO STA 136+50.0, 40.6' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER 500± LF

CONSTRUCTION NOTES

1.1 STA 134+11±, 36'± RT, INV ELEV=2807.4±
- 12" X 8" TEE — 1 EA (NPI)
- 12" GATE VALVE, (E) B&C — 1 EA
- 8" GATE VALVE, (N) B&C — 1 EA

REFERENCE NOTES

1. FOR LATERAL PLAN & PROFILE, SEE SHEET W34
2. STA 134+05±, 36'± RT, INV ELEV=2808.3±
   EXIST 8" PVC WATER
3. STA 131+50.0, 36.0' RT
   INV ELEV=2802.75
   MATCHLINE
4. STA 136+50.0, 36.0' RT
   INV ELEV=2810.84
   MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°21'32"E	500	12" DI

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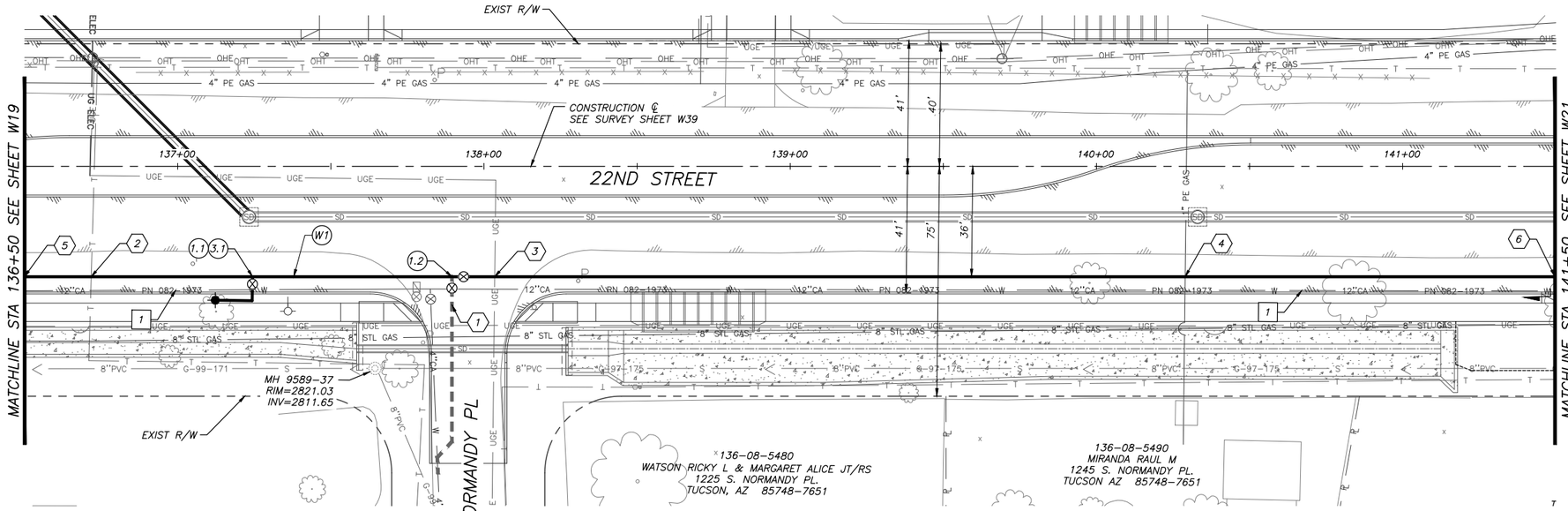
CITY OF TUCSON

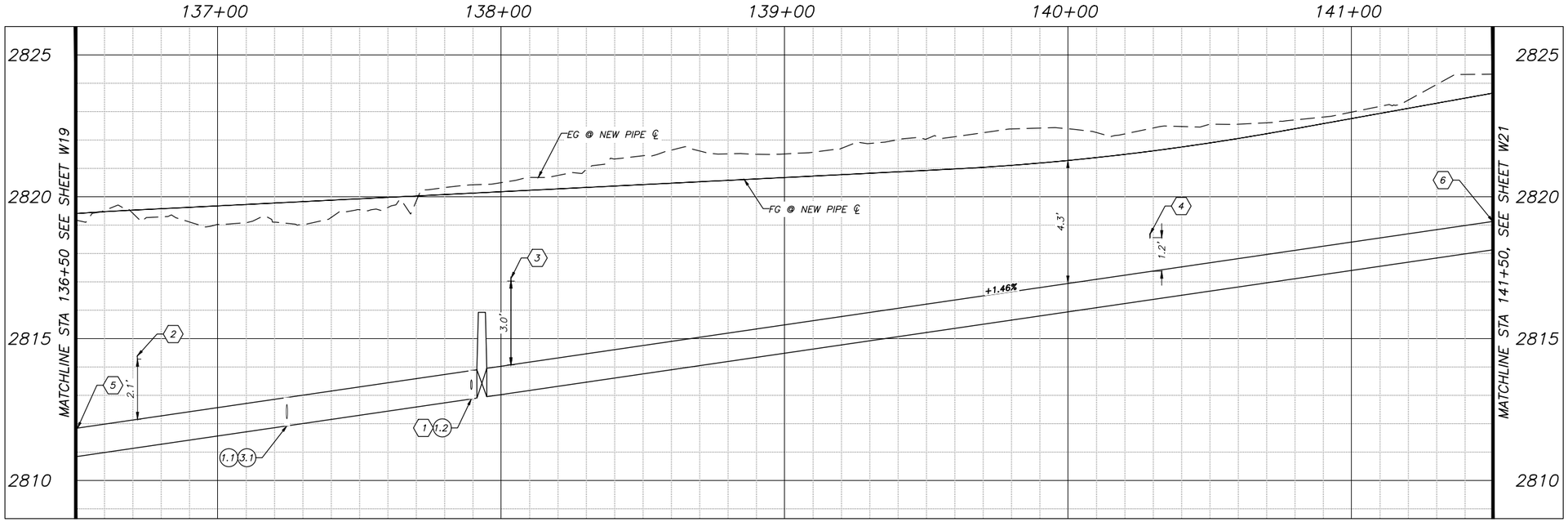
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

22ND STREET
STA 131+50 TO STA 136+50

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	282 OF 316
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CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4-014-2025





REMOVE / ABANDON NOTES

1. STA 136+50.0, 40.6' RT TO STA 141+50.0, 40.0' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER 500± LF

CONSTRUCTION NOTES

1.1 STA 137+24±, 36'± RT, INV ELEV=2811.9±
   12" X 6" TEE 1 EA (NPI)
   6" GATE VALVE, B&C 1 EA

1.2 STA 137+90±, 36'± RT, INV ELEV=2812.9±
   12" X 4" TEE 1 EA (NPI)
   12" GATE VALVE, (E) B&C 1 EA
   4" GATE VALVE, (S) B&C 1 EA

3.1 STA 137+24±, 36'± RT, INV ELEV=2811.9±
   FIRE HYDRANT ASSEMBLY 1 EA
   6" GATE VALVE, (E) B&C 1 EA

REFERENCE NOTES

1. FOR LATERAL PLAN & PROFILE, SEE SHEET W35
2. STA 136+72±, 36'± RT, INV ELEV=2814.3±
   EXIST COM
3. STA 138+04±, 36'± RT, INV ELEV=2817.0±
   EXIST ELECTRIC
4. STA 140+29±, 36'± RT, INV ELEV=2818.6±
   EXIST 1" PE GAS
5. STA 136+50.0, 36.0' RT
   INV ELEV=2810.84
   MATCHLINE
6. STA 141+50.0, 36.0' RT
   INV ELEV=2818.13
   MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°21'32"E	500	12" DI

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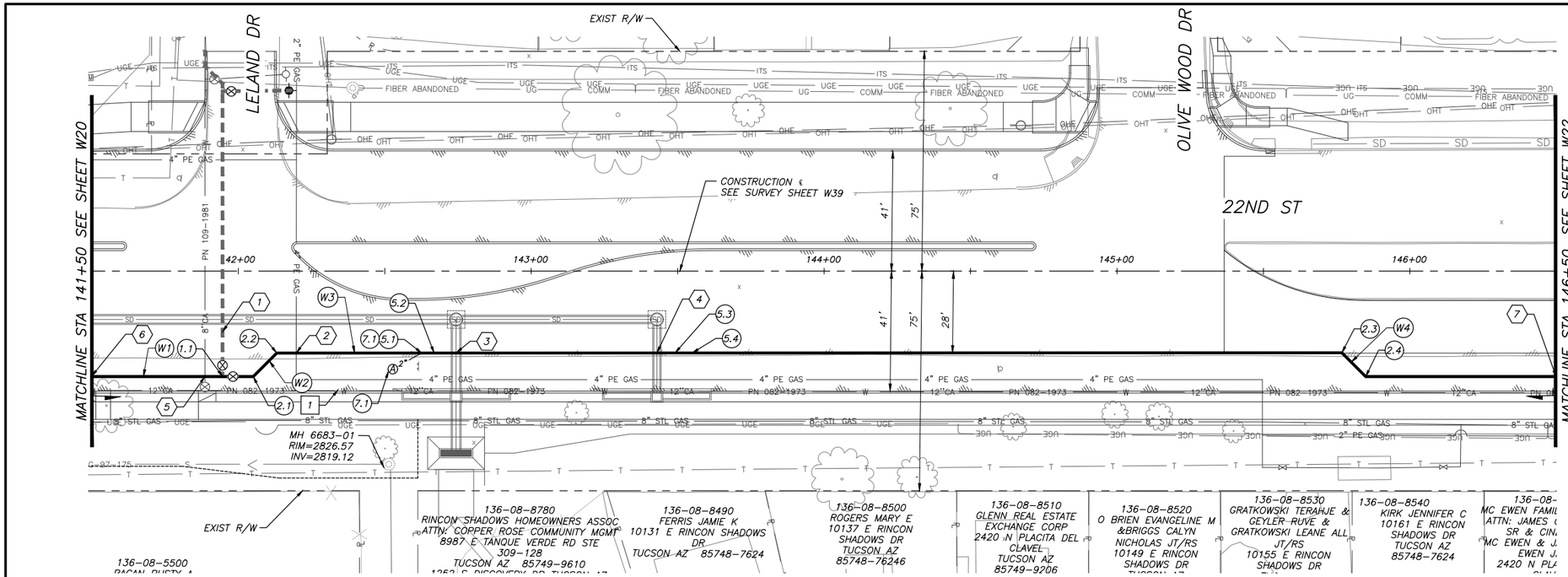
CITY OF TUCSON

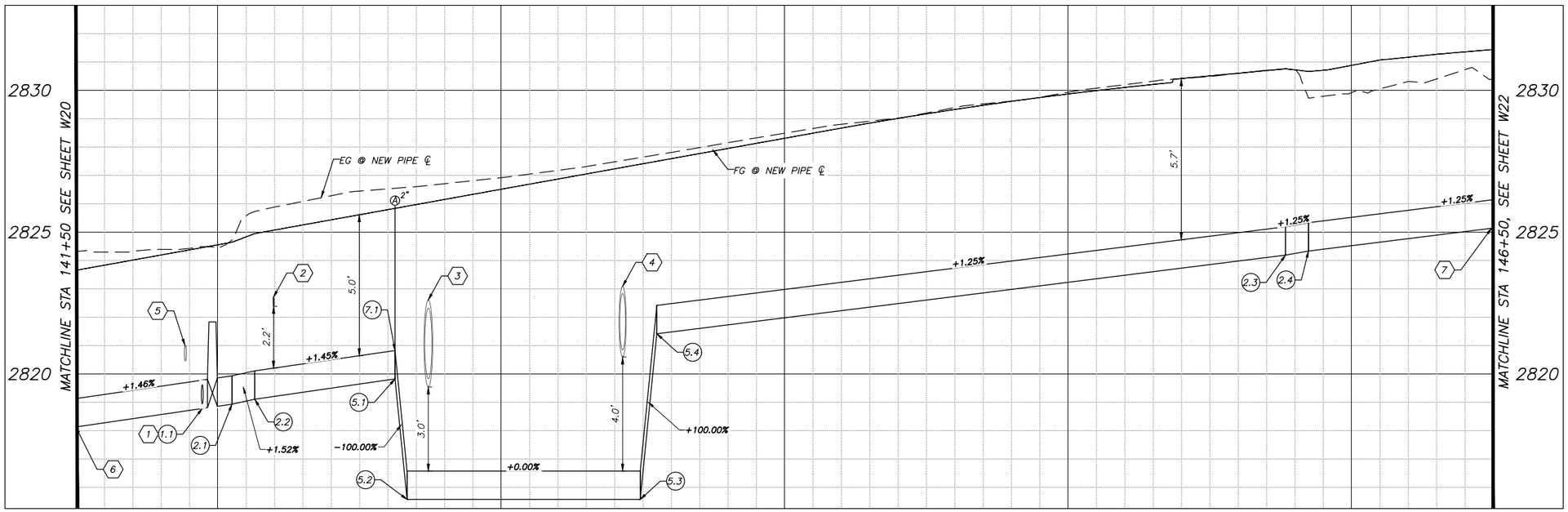
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
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CONSTRUCTION

22ND STREET
STA 136+50 TO STA 141+50

DESIGNED BY: SMM	DATE 08/25	FIELD BOOK NO.	283 OF 316
DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		





REMOVE / ABANDON NOTES

1 STA 141+50.0, 40.0' RT TO STA 146+50.0, 40.0' RT
REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 500± LF

CONSTRUCTION NOTES

1.1 STA 141+95±, 36'± RT, INV ELEV=2818.8±
12" X 8" TEE 1 EA (NPI)
12" GATE VALVE, (E) B&C 1 EA
8" GATE VALVE, (N) B&C 1 EA

2.1 STA 142+05.09, 36.0' RT (HORIZ)
INV ELEV=2818.94

2.2 STA 142+13.13, 28.0' RT (RO)
INV ELEV=2819.11

2.3 STA 145+76.78, 27.9' RT (HORIZ)
INV ELEV=2824.19

2.4 STA 145+84.89, 36.0' RT (HORIZ)
INV ELEV=2824.33
12" X 45° BEND 4 EA (NPI)

5.1 STA 142+62.60, 27.9' RT (VERT)
INV ELEV=2819.83

5.2 STA 142+66.85, 27.9' RT (VERT)
INV ELEV=2815.58

5.3 STA 143+49.12, 27.9' RT (VERT)
INV ELEV=2815.58

5.4 STA 143+54.96, 27.9' RT (VERT)
INV ELEV=2821.42
12" X 45° BEND 4 EA (NPI)

7.1 STA 142+62.6, 27.9' RT (LOCATION OF TAP)
INV ELEV=2819.83
STA 142+52.7, 33.5' RT
INV ELEV=2819.83
2" ARV PER TW SD-331 1 EA

REFERENCE NOTES

1 FOR LATERAL PLAN & PROFILE, SEE SHEET W35
2 STA 142+20±, 28'± RT, INV ELEV=2822.4±
EXIST 4" PE GAS
3 STA 142+74±, 28'± RT, INV ELEV=2819.5±
PROPOSED STORM DRAIN
4 STA 143+43±, 28'± RT, INV ELEV=2820.6±
PROPOSED STORM DRAIN
5 STA 141+89±, 36'± RT, INV ELEV=2820.4±
EXISTING 8" CA WATER
6 STA 141+50.0, 36.0' RT
INV ELEV=2818.13
MATCHLINE
7 STA 146+50.0, 36.0' RT
INV ELEV=2825.14
MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°21'32"E	55	12" DI
W2	N44°20'52"E	11	12" DI
W3	N89°20'52"E	364	12" DI
W4	S45°38'28"E	11	12" DI

W21 OF W39

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

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22ND STREET
STA 141+50 TO STA 146+50

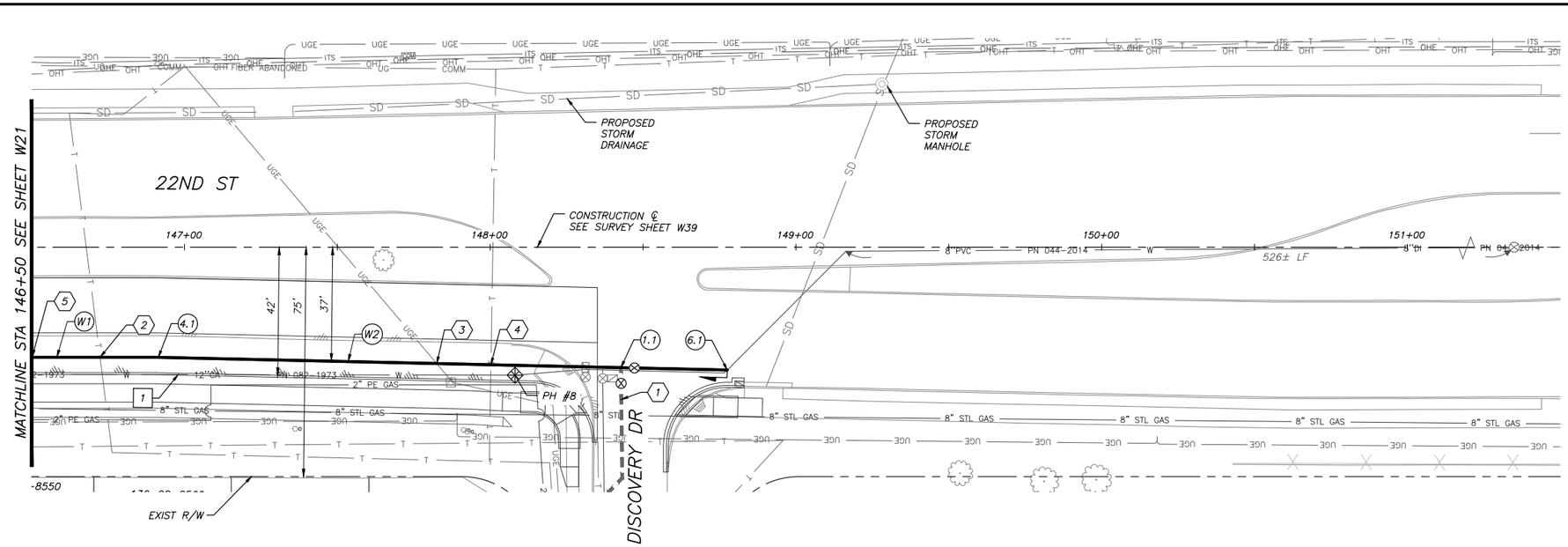
DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	284 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

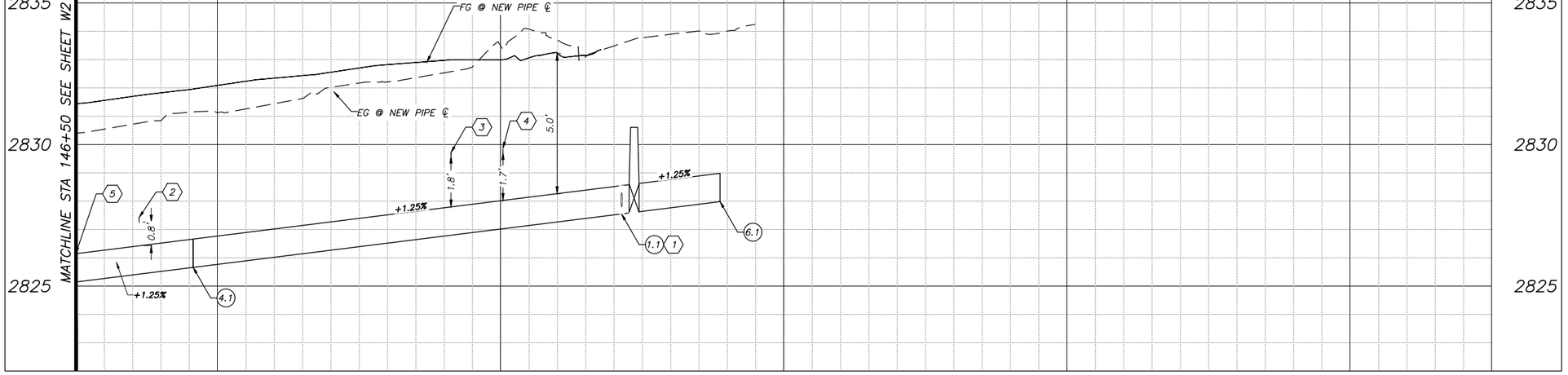
TW PLAN NO 4-014-2025

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REMOVE / ABANDON NOTES

1. STA 146+50.0, 40.0' RT TO STA 148+77.5, 40.1' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 228± LF

CONSTRUCTION NOTES

1.1. STA 148+43±, 39'± RT, INV ELEV=2827.5±
   12" X 8" TEE — 1 EA (NPI)
   12" GATE VALVE, (E) B&C — 1 EA
   8" GATE VALVE, (S) B&C — 1 EA

4.1. STA 146+91±, 36'± RT, INV ELEV=2825.7±
   HORIZONTAL DEFLECTION — 1 EA (NPI)

6.1. STA 148+78±, 40'± RT, INV ELEV=2828.0±
   CONNECT TO EXIST 6" NON CA PIPE — 1 EA (NPI)
   12" X 45° BEND — 1 EA (NPI)

REFERENCE NOTES

1. FOR LATERAL PLAN & PROFILE, SEE SHEET W36
2. STA 146+72±, 36'± RT, INV ELEV=2828.6±
   EXIST COM
3. STA 147+83±, 38'± RT, INV ELEV=2829.7±
   EXIST ELECTRIC
4. STA 148+00±, 38'± RT, INV ELEV=2829.7±
   EXIST COM
5. STA 146+37.7, 1137.6' RT
   INV ELEV=2825.14
   MATCHLINE

WATERLINE TABLE

W#	BEARING	LENGTH	SIZE / MATERIAL
W1	N89°21'32"E	107	12" DI
W2	S89°21'53"E	186	12" DI

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W22 OF W39

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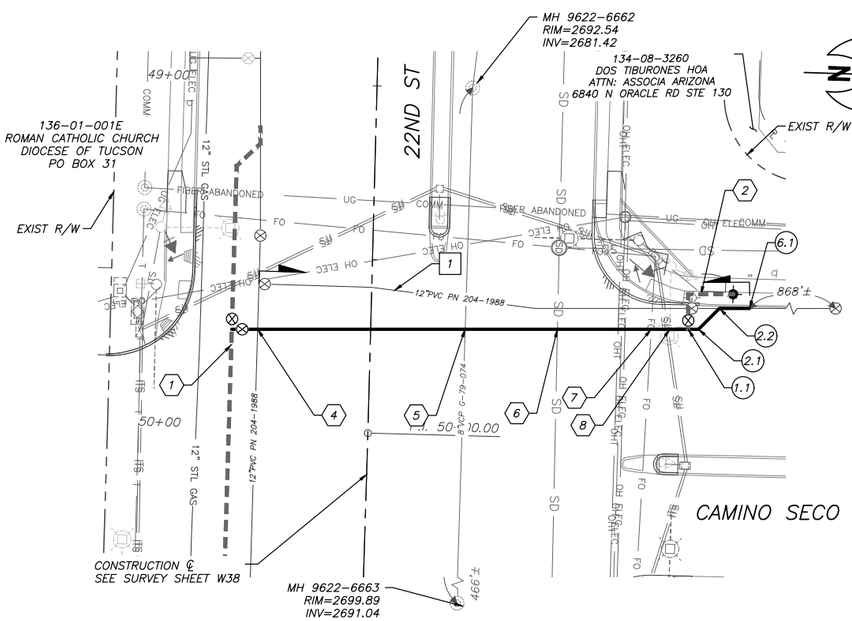
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

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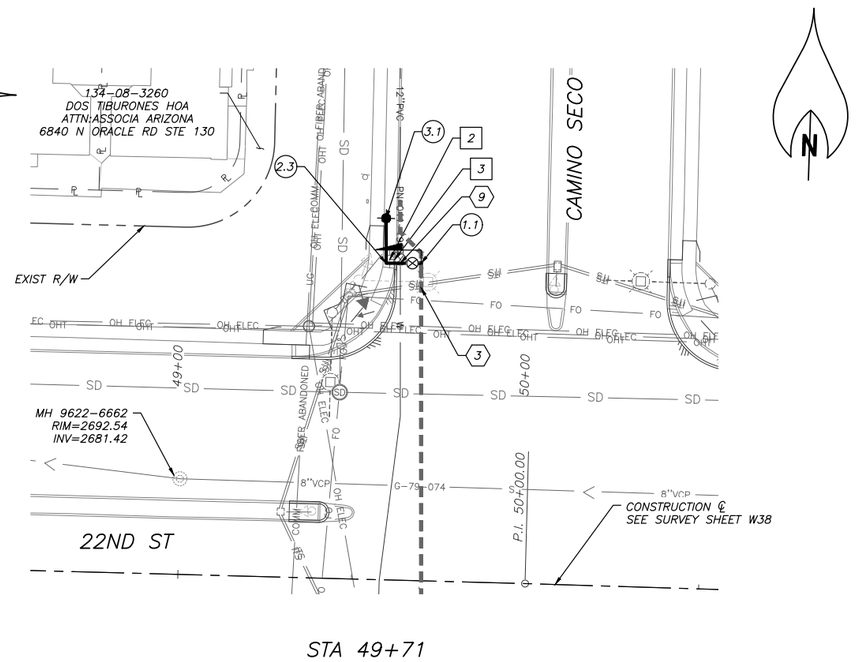
22ND STREET
STA 146+50 TO STA 151+50

DESIGNED BY: SMM	DATE 08/25	FIELD BOOK NO.	285 OF 316
DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		

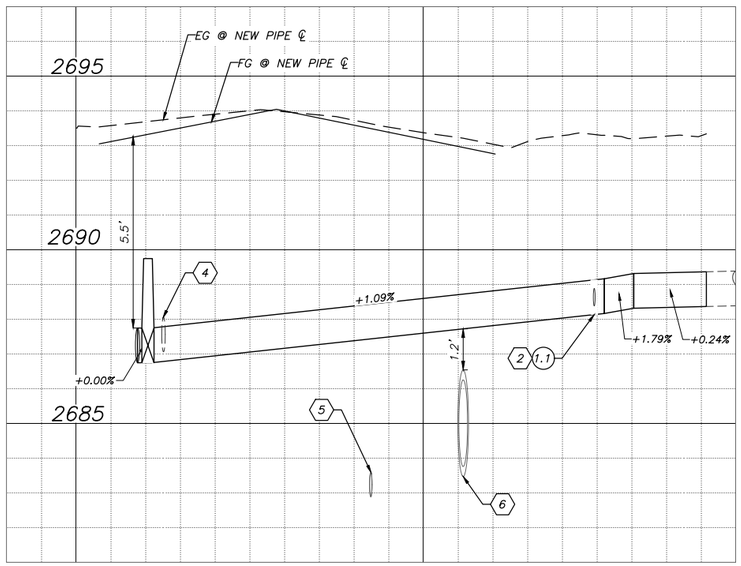
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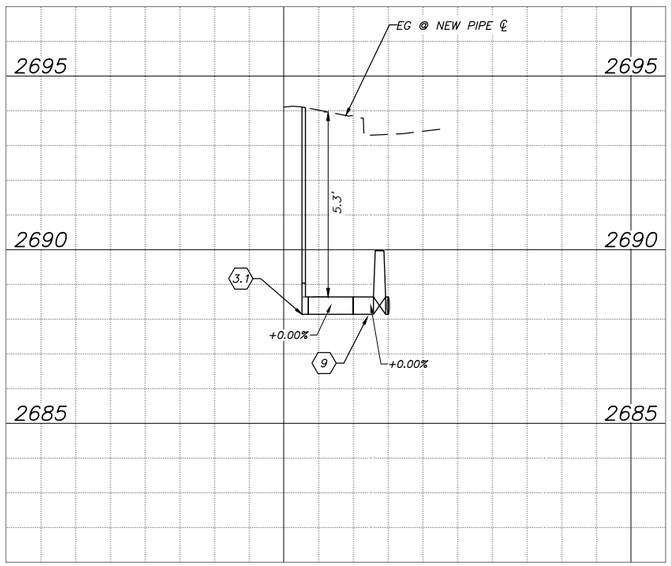


STA 49+71



STA 49+71





REMOVE / ABANDON NOTES

1. STA 49+57.89, 32.46' RT TO STA 49+60.62, 109.98' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 143± LF
2. STA 49+58.60, 92.24' LT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES, EXIST 6" DIP, & GATE VALVE WITH BOX & COVER — 1 EA
3. STA 49+61.64, 92.33' LT TO STA 49+58.60, 92.24' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 3± LF

CONSTRUCTION NOTES

(1.1) STA 49+67.67, 91.4' LT
INV ELEV=0.00
12" x 6" TEE — 1 EA (NPI)
6" GATE VALVE, B&C (W) — 1 EA

(2.1) STA 49+67.59, 94.4' LT (HORIZ)
INV ELEV=0.00

(2.2) STA 49+61.43, 100.2' LT (HORIZ)
INV ELEV=0.00
12" X 45° BEND — 2 EA (NPI)

(2.3) STA 49+57.58, 91.2' LT (HORIZ)
INV ELEV=0.00
6" X 90° BEND — 1 EA (NPI)

(3.1) STA 49+57.24, 104.1' LT
INV ELEV=2688.14
FIRE HYDRANT ASSEMBLY PER SD-500 — 1 EA

(6.1) STA 49+61.20±, 108.92'± LT
INV ELEV=0.00±
CONNECT TO EXISTING 12" PVC WATER
(SEE PN 204-1988) — 1 EA (NPI)

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W6
2. FOR LATERAL LINE PLAN & PROFILE, SEE THIS SHEET RIGHT
3. FOR LATERAL LINE PLAN & PROFILE, SEE THIS SHEET LEFT
4. STA 49+71±, 41'± RT, INV ELEV=2687.1±
   EXIST 12" PVC WATER
5. STA 49+69±, 19'± LT, INV ELEV=2682.9±
   EXIST 8" VCP SEWER
6. STA 49+69±, 46'± LT, INV ELEV=2683.5±
   PROPOSED STORM DRAIN
7. STA 49+68±, 81'± LT, INV ELEV=0.0±
   EXIST FIBER
8. STA 49+68±, 86'± LT, INV ELEV=0.0±
   EXIST TRAFFIC SIGNAL CONDUIT
9. STA 49+62±, 91'± LT, INV ELEV=2688.1±
   EXIST 12" PVC WATER

CITY OF TUCSON
TUCSON WATER

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
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22ND ST. STA 49+71
22ND ST. STA 49+71

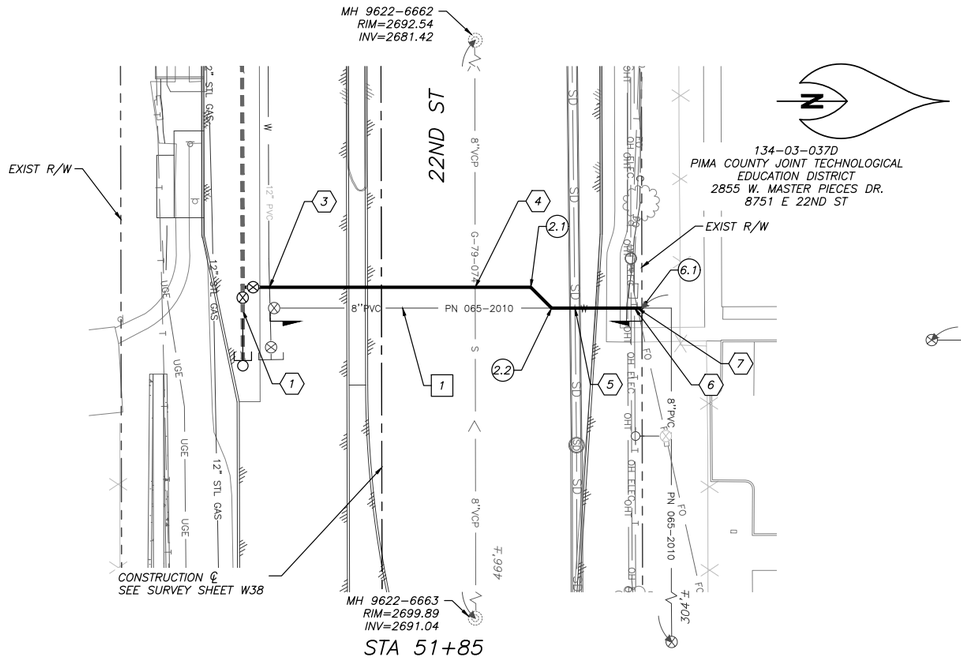
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SMM	08/25		286 OF 316
DRAWN BY:	DATE	SCALE:	PLAN NO.
DRS/JAL	08/25	VERT: 1" = 2' HORIZ: 1" = 20'	1-2025-004
CHECKED BY:	DATE		
CAW	08/25		

NO.	BY	DATE	REVISION	APPR.	DATE

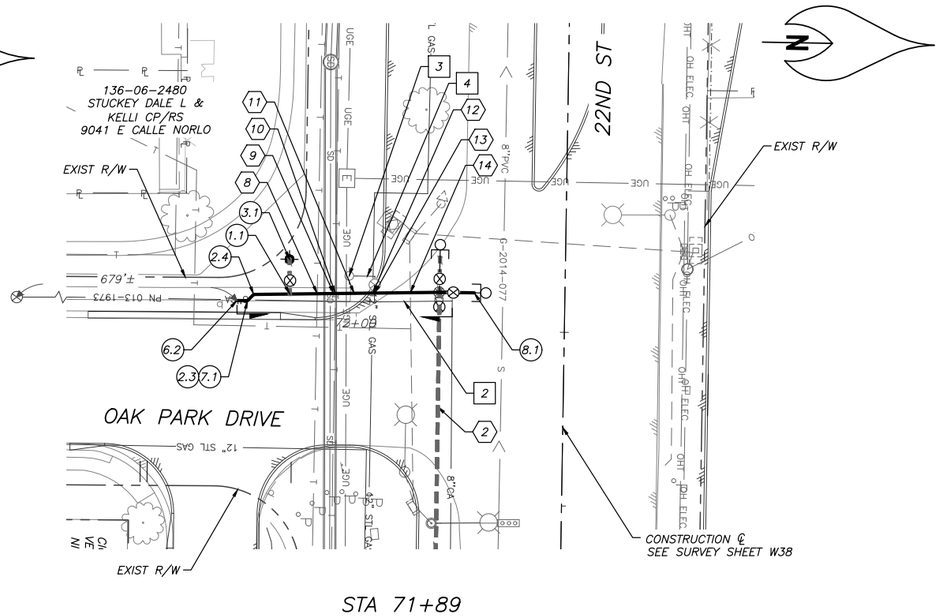
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STA 51+85



STA 71+89

REMOVE / ABANDON NOTES

1. STA 51+91.06, 32.07' RT TO STA 51+91.27, 75.00' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE
   TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 107± LF
2. STA 71+91.50, 32.45' RT TO STA 71+92.39, 94.42' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPETO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 62± LF
3. STA 71+84.74, 62.19' RT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES,
   EXIST 6" DIP, & GATE VALVE WITH BOX & COVER — 1 EA
4. STA 71+92.12, 54.82' RT TO STA 71+84.74, 62.19' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 15± LF

CONSTRUCTION NOTES

1.1. STA 71+90.25, 79.2' RT
   INV ELEV=0.00
   8" x 6" TEE — 1 EA (NPI)
   6" GATE VALVE, B&C (W) — 1 EA

2.1. STA 51+85.20, 43.0' LT (HORIZ)
   INV ELEV=0.00

2.2. STA 51+91.22, 49.0' LT (HORIZ)
   INV ELEV=0.00
   8" X 45° BEND — 2 EA (NPI)

2.3. STA 71+92.37, 91.4' RT (HORIZ)
   INV ELEV=0.00

2.4. STA 71+90.53, 89.6' RT (HORIZ)
   INV ELEV=0.00
   8" X 45° BEND — 2 EA (NPI)

3.1. STA 71+80.25, 79.5' RT
   INV ELEV=0.00
   FIRE HYDRANT ASSEMBLY PER SD-500 — 1 EA

6.1. STA 51+91.27±, 75.00'± LT
   INV ELEV=0.00±
   CONNECT TO EXISTING 8" PVC WATER
   (SEE PN 065-2010) — 1 EA (NPI)

6.2. STA 71+92.39±, 94.42'± RT
   INV ELEV=0.00±
   CONNECT TO EXISTING 8" CA WATER
   (SEE PN 013-1973) — 1 EA (NPI)

7.1. THRUST BLOCKING TO BE INSTALLED PER SD-610

8.1. STA 71+89.04, 26.1' RT
   INV ELEV=0.00
   DRAIN VALVE ASSEMBLY PER SD-400 — 1 EA (NPI)

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W6
2. FOR MAIN PLAN & PROFILE, SEE SHEET W7
3. STA 51+85±, 32'± RT, INV ELEV=2691.5±
   EXIST 12" PVC WATER
4. STA 51+85±, 27'± LT, INV ELEV=2687.3±
   EXIST 8" VCP SEWER
5. STA 51+91±, 56'± LT, INV ELEV=2689.2±
   PROPOSED STORM DRAIN
6. STA 51+91±, 73'± LT, INV ELEV=0.0±
   EXIST COM
7. STA 51+91±, 74'± LT, INV ELEV=0.0±
   EXIST FIBER
8. STA 71+90±, 71'± RT, INV ELEV=0.0±
   EXIST COM
9. STA 71+90±, 67'± RT, INV ELEV=2722.1±
   PROPOSED STORM DRAIN
10. STA 71+90±, 66'± RT, INV ELEV=0.0±
    EXIST COM
11. STA 71+90±, 61'± RT, INV ELEV=0.0±
    EXIST ELECTRIC
12. STA 71+90±, 55'± RT, INV ELEV=2722.2±
    EXIST 12" STL GAS
13. STA 71+90±, 55'± RT, INV ELEV=0.0±
    EXIST 6" DIP WATER
14. STA 71+89±, 45'± RT, INV ELEV=0.0±
    EXIST TRAFFIC SIGNAL CONDUIT

W24 OF W39

CITY OF TUCSON
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WATER MODIFICATION PLANS

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22ND ST. STA 51+85
22ND ST. STA 71+89

DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	08/25		287 OF 316
DRAWN BY:	DATE	SCALE:	
DRS/JAL	08/25	VERT: 1" = 2'	PLAN NO.
CHECKED BY:	DATE	HORIZ: 1" = 20'	1-2025-004
CAW	08/25		

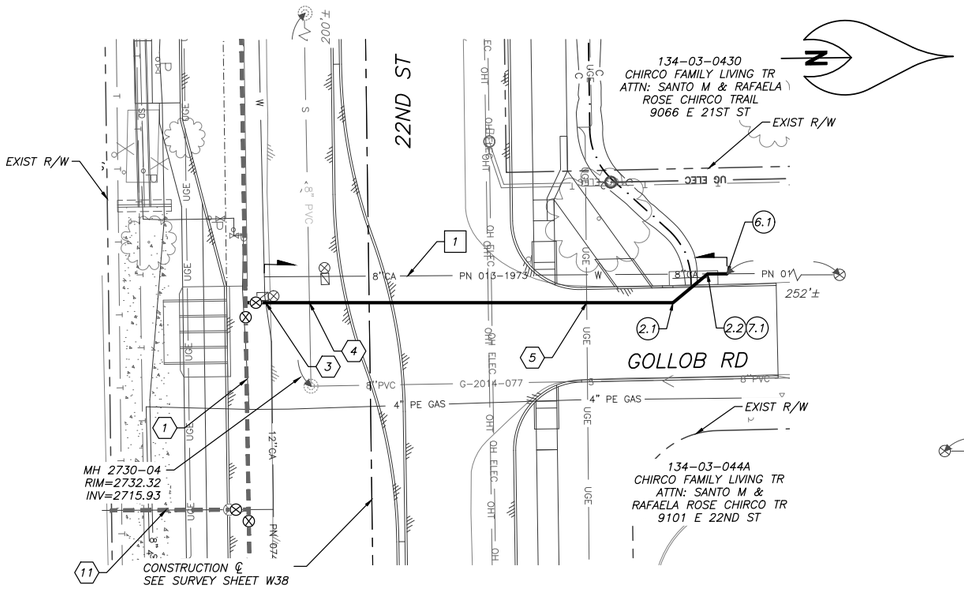
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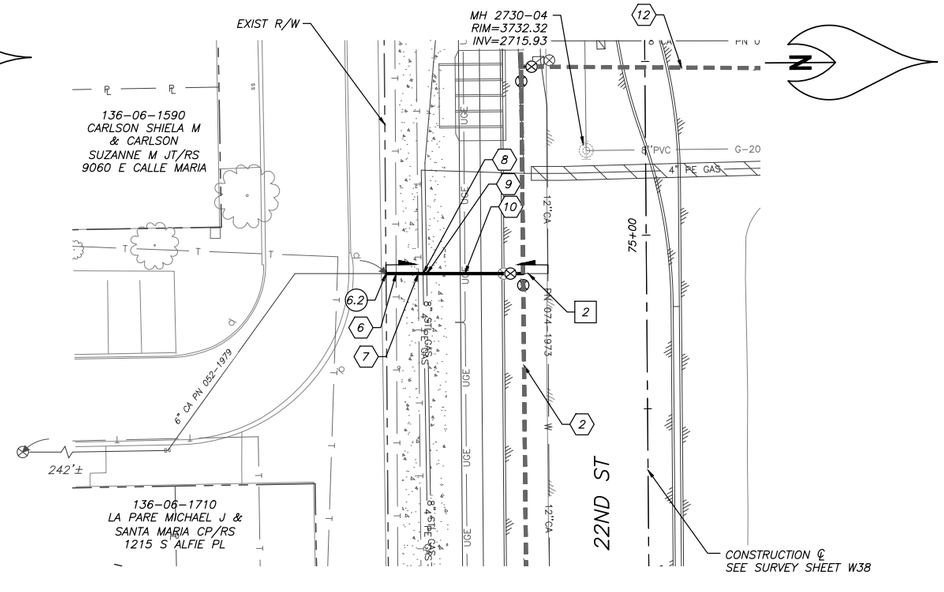
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STA 74+51



STA 75+05

REMOVE/ ABANDON NOTES

1. STA 74+43.84, 30.07' RT TO STA 74+44.80, 103.16' LT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 133± LF
2. STA 75+10.85, 28.39' RT TO STA 75+10.47, 74.97' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 47± LF

CONSTRUCTION NOTES

2.1 STA 74+52.90, 87.5' LT (HORIZ)
INV ELEV=0.00

2.2 STA 74+44.76, 97.6' LT (HORIZ)
INV ELEV=0.00
8" X 45° BEND — 2 EA (NPI)

6.1 STA 74+44.80±, 103.16'± LT
INV ELEV=0.00±
CONNECT TO EXISTING 8" CA WATER
(SEE PN 013-1973) — 1 EA (NPI)

6.2 STA 75+10.47±, 75.00'± RT
INV ELEV=0.00±
CONNECT TO EXISTING 6" CA WATER
(SEE PN 052-1979) — 1 EA (NPI)
THRUST BLOCKING TO BE INSTALLED PER SD-610

7.1 THRUST BLOCKING TO BE INSTALLED PER SD-610

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W7
2. FOR MAIN PLAN & PROFILE, SEE SHEET W7
3. STA 74+51±, 30'± RT, INV ELEV=2725.5±
   EXIST 12" CA WATER
4. STA 74+51±, 17'± RT, INV ELEV=2715.8±
   EXIST 8" PVC SEWER
5. STA 74+53±, 62'± LT, INV ELEV=0.0±
   EXIST ELECTRIC
6. STA 75+10±, 72'± RT, INV ELEV=0.0±
   EXIST COM (TO BE RELOCATED BY OTHERS)
7. STA 75+11±, 66'± RT, INV ELEV=0.0±
   EXIST COM (TO BE RELOCATED)
8. STA 75+11±, 64'± RT, INV ELEV=2727.2±
   EXIST 4" PE GAS (TO BE RELOCATED BY OTHERS)
9. STA 75+11±, 63'± RT, INV ELEV=2726.8±
   EXIST 8" STL GAS (TO BE RELOCATED BY OTHERS)
10. STA 75+11±, 52'± RT, INV ELEV=0.0±
    EXIST ELECTRIC
11. FOR PLAN & PROFILE, SEE THIS SHEET RIGHT
12. FOR PLAN & PROFILE, SEE THIS SHEET LEFT

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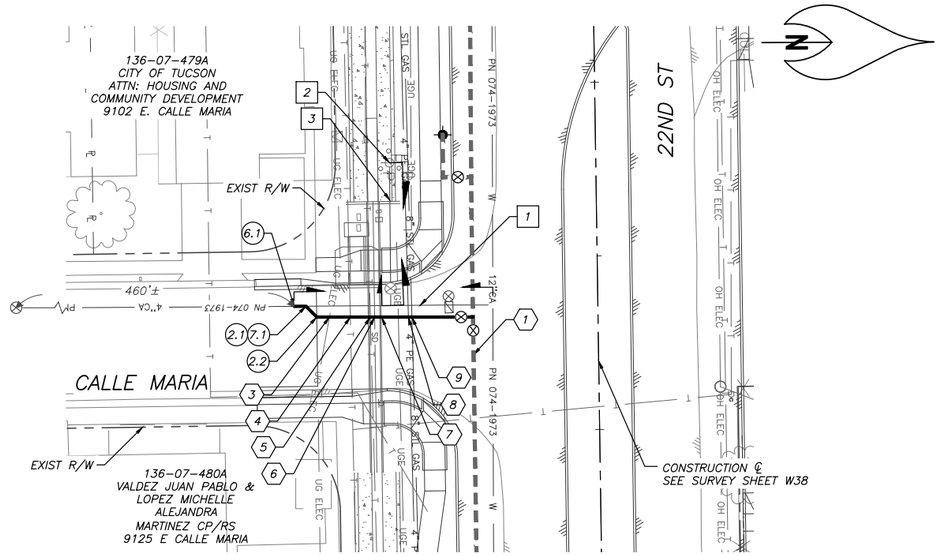
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%
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CONSTRUCTION

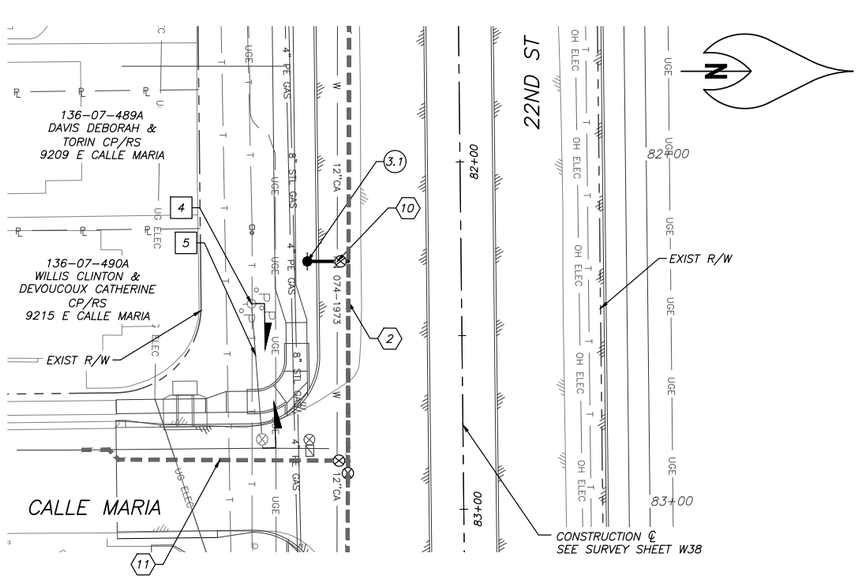
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22ND ST. STA 75+05

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DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

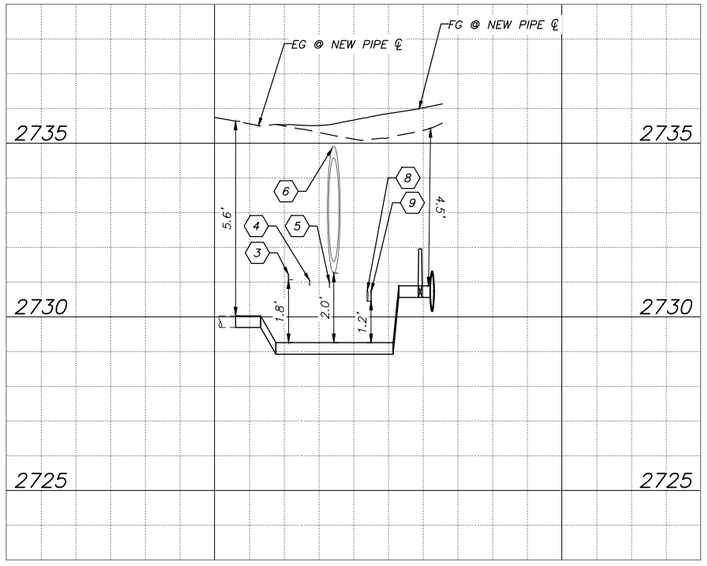
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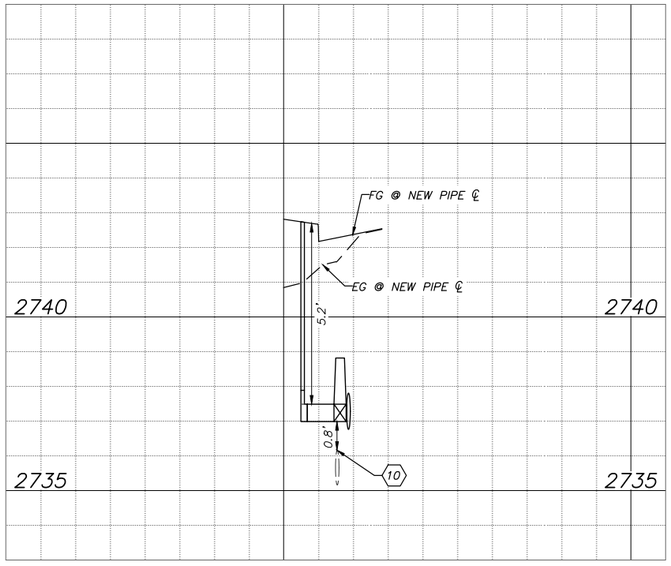


STA 77+67



STA 82+29





REMOVE / ABANDON NOTES

1. STA 77+63.69, 31.53' RT TO STA 77+63.25, 87.43' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 57± LF
2. STA 77+22.31, 59.39' RT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES,
   EXIST 6" DIP, & GATE VALVE WITH BOX & COVER — 1 EA
3. STA 77+63.42, 59.63' RT TO STA 77+22.31, 59.39' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO NEAREST
   JOINT, & GATE VALVES WITH BOX & COVER — 41± LF
4. STA 82+40.17, 60.48' RT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES,
   EXIST 6" DIP, & GATE VALVE WITH BOX & COVER — 1 EA
5. STA 82+81.80, 57.67' RT TO STA 82+40.17, 60.48' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 42± LF

CONSTRUCTION NOTES

2.1. STA 77+63.28, 84.0' RT (HORIZ)
   INV ELEV=0.00
2.2. STA 77+66.43, 81.0' RT (HORIZ)
   INV ELEV=0.00
   4" X 45° BEND — 2 EA (NPI)

3.1. STA 82+28.15, 44.3' RT
   INV ELEV=0.00
   FIRE HYDRANT ASSEMBLY PER SD-500 — 1 EA

6.1. STA 77+63.25±, 87.42'± RT
   INV ELEV=0.00±
   CONNECT TO EXISTING 4" CA WATER
   (SEE PN 074-1973) — 1 EA (NPI)

7.1. THRUST BLOCKING TO BE INSTALLED PER SD-610

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W8
2. FOR MAIN PLAN & PROFILE, SEE SHEET W9
3. STA 77+66±, 77'± RT, INV ELEV=2731.1±
   EXIST ELECTRIC
4. STA 77+67±, 71'± RT, INV ELEV=0.0±
   EXIST COM
5. STA 77+67±, 66'± RT, INV ELEV=0.0±
   EXIST COM
6. STA 77+67±, 64'± RT, INV ELEV=2731.3±
   PROPOSED STORM DRAIN
7. STA 77+67±, 62'± RT, INV ELEV=0.0±
   EXIST ELECTRIC
8. STA 77+67±, 55'± RT, INV ELEV=2730.4±
   EXIST 4" PE GAS
9. STA 77+67±, 54'± RT, INV ELEV=2730.4±
   EXIST 8" STL GAS
10. STA 82+28±, 36'± RT, INV ELEV=2735.2±
    EXIST 12" CA WATER
11. FOR PLAN & PROFILE, SEE SHEET W27

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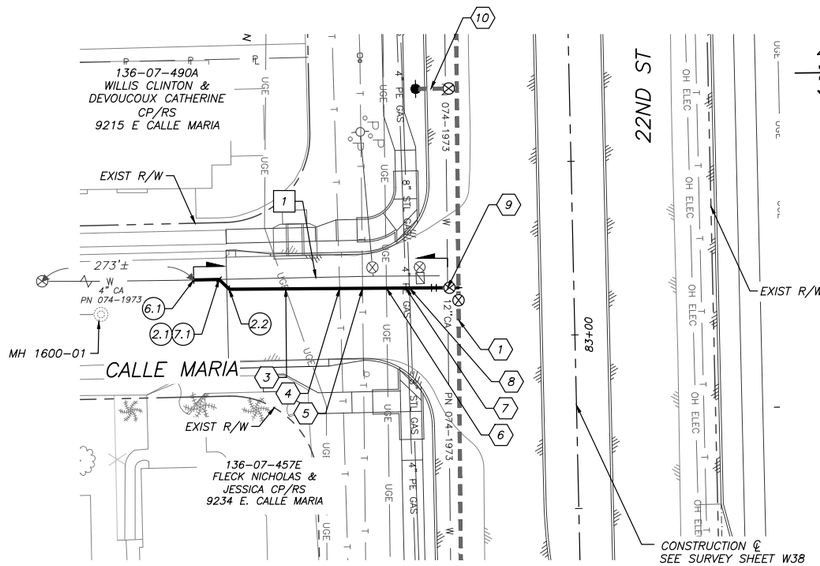
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WATER MODIFICATION PLANS

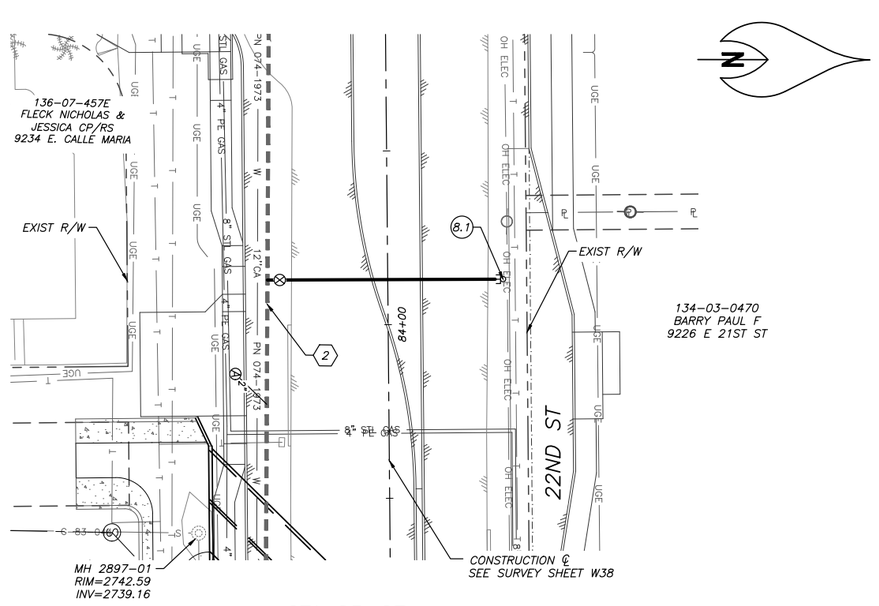
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22ND ST. STA 82+29

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	289 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

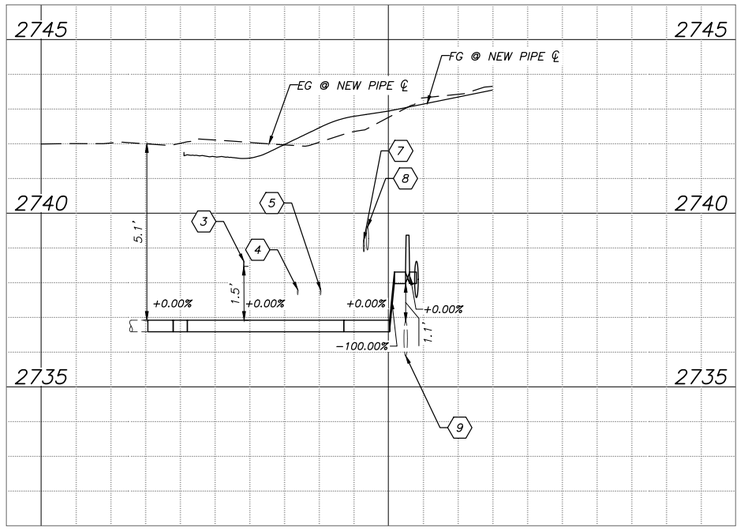
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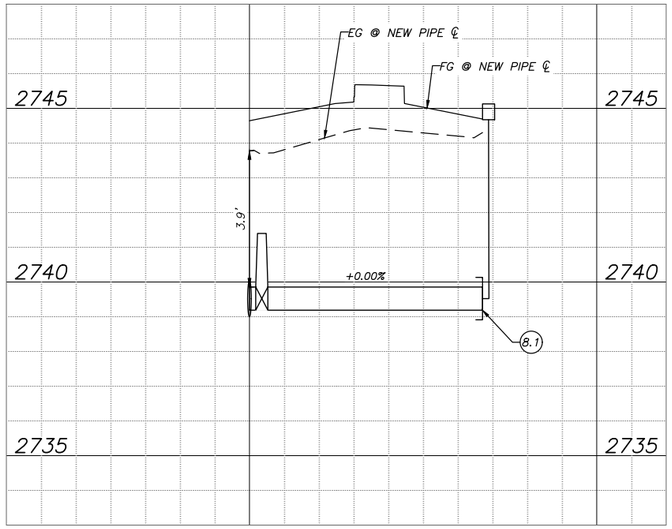


STA 82+86



STA 83+87





REMOVE / ABANDON NOTES

1. STA 82+82.12, 36.28' RT TO STA 82+81.71, 109.36' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 73± LF

CONSTRUCTION NOTES

2.1. STA 82+81.72, 102.07' RT (HORIZ)
   INV ELEV=0.0

2.2. STA 82+84.61, 99.19' RT (HORIZ)
   INV ELEV=0.0
   4" X 45° BEND — 2 EA (NPI)

6.1. STA 82+81.71±, 109.36'± RT
   INV ELEV=0.00±
   CONNECT TO EXISTING 4" CA WATER
   (SEE PN 074-1973) — 1 EA (NPI)

7.1. THRUST BLOCKING TO BE INSTALLED PER SD-610

8.1. STA 83+87.22, 33.22' LT
   INV ELEV=0.00'
   DRAIN VALVE ASSEMBLY PER SD-400 — 1 EA (NPI)

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W9
2. FOR MAIN PLAN & PROFILE, SEE SHEET W9
3. STA 82+85±, 83'± RT, INV ELEV=2738.5±
   EXIST ELECTRIC
4. STA 82+85±, 67'± RT, INV ELEV=0.0±
   EXIST COM
5. STA 82+85±, 61'± RT, INV ELEV=0.0±
   EXIST COM
6. STA 82+85±, 54'± RT, INV ELEV=0.0±
   EXIST ELECTRIC
7. STA 82+85±, 48'± RT, INV ELEV=2738.9±
   EXIST 4" PE GAS
8. STA 82+85±, 47'± RT, INV ELEV=2738.9±
   EXIST 8" STL GAS
9. STA 82+86±, 36'± RT, INV ELEV=2735.9±
   EXIST 12" CA WATER
10. FOR PLAN & PROFILE, SEE SHEET W26

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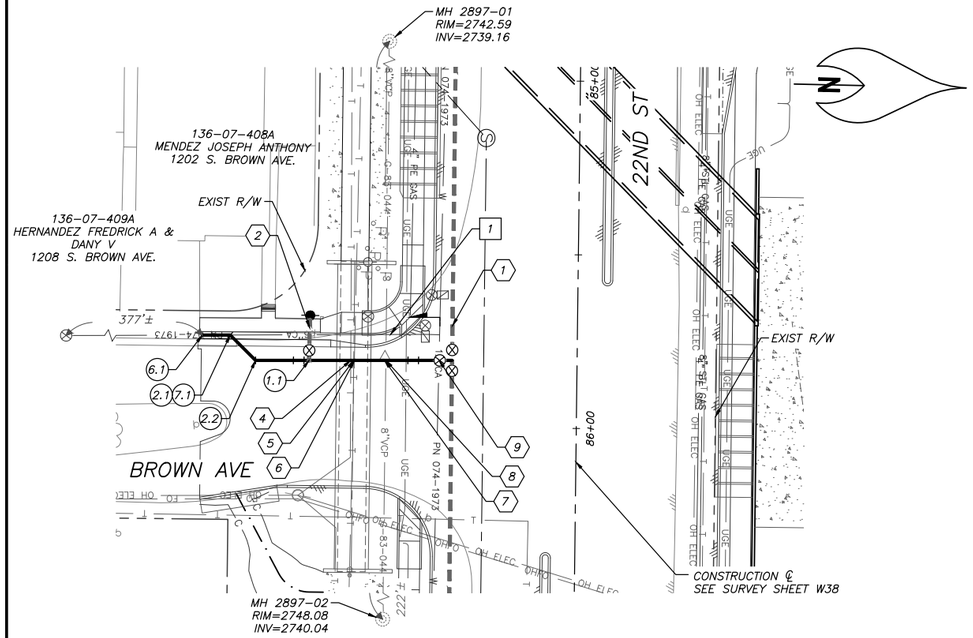
CITY OF TUCSON
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WATER MODIFICATION PLANS

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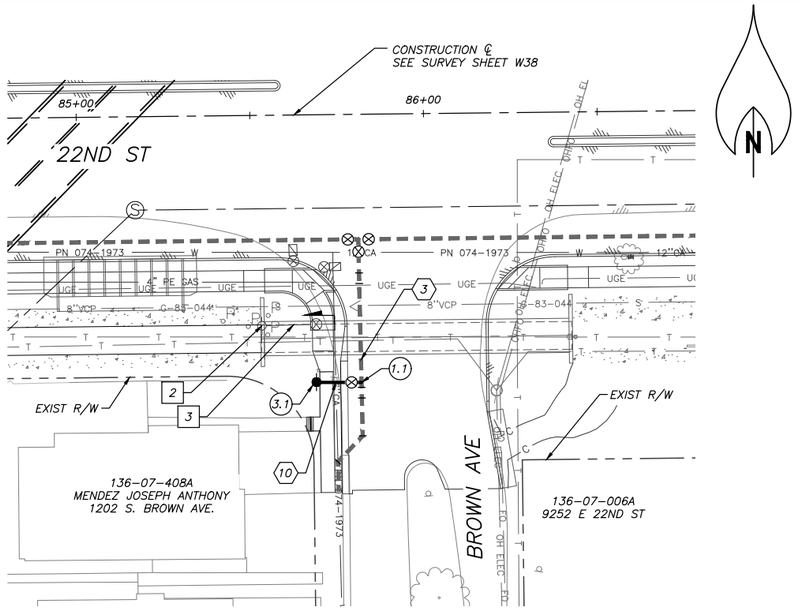
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22ND ST. STA 83+87

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	290 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

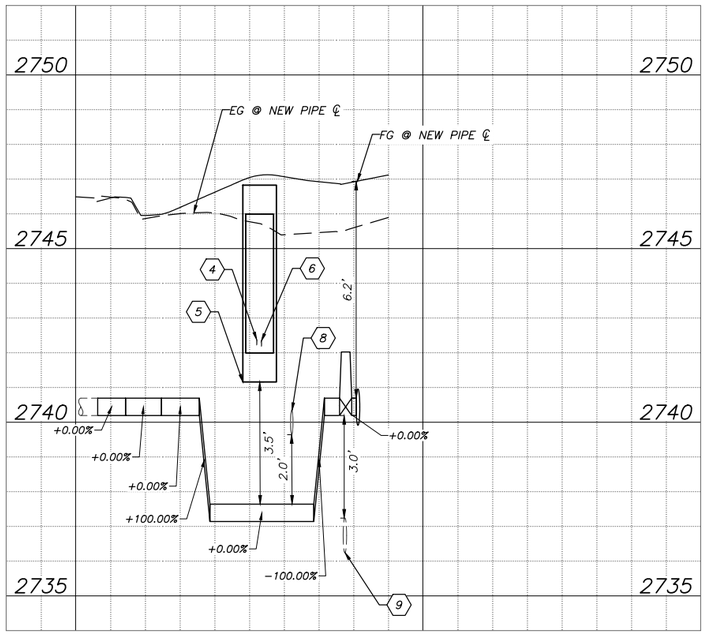
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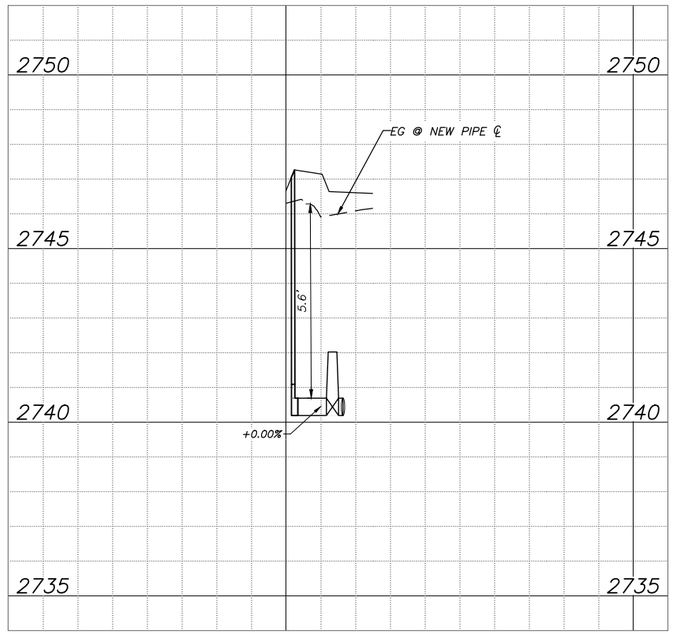


STA 85+81



STA 85+81





REMOVE / ABANDON NOTES

1. STA 85+73.48, 39.68' RT TO STA 85+74.42, 108.00' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 70± LF
2. STA 85+52.81, 60.58' RT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES, EXIST 6" DIP, & GATE VALVE WITH BOX & COVER — 1 EA
3. STA 85+73.69, 60.31' RT TO STA 85+52.81, 60.58' RT
   REMOVE & DISPOSE 12" & SMALLER NON DIP TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 21± LF

CONSTRUCTION NOTES

1.1 STA 85+81.33, 77.19' RT
   INV ELEV=0.00'
   6" x 6" TEE — 1 EA (NPI)
   6" GATE VALVE, B&C (W) — 1 EA

2.1 STA 85+74.29, 99.98' RT (HORIZ)
   INV ELEV=0.0
2.2 STA 85+81.51, 92.58' RT (HORIZ)
   INV ELEV=0.0
   6" X 45° BEND — 2 EA (NPI)

3.1 STA 85+69.87, 87.56' RT
   INV ELEV=0.00'
   FIRE HYDRANT ASSEMBLY PER SD-500 — 1 EA

6.1 STA 85+74.42±, 108.00'± RT
   INV ELEV=0.00±
   CONNECT TO EXISTING 6" CA WATER (SEE PN 074-1973) — 1 EA (NPI)

7.1 THRUST BLOCKING TO BE INSTALLED PER SD-610

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W9
2. FOR LATERAL LINE PLAN & PROFILE, SEE THIS SHEET RIGHT
3. FOR LATERAL LINE PLAN & PROFILE, SEE THIS SHEET LEFT
4. STA 85+81±, 65'± RT, INV ELEV=2742.2±
   EXIST COM
5. STA 85+81±, 64'± RT, INV ELEV=0.0±
   PROPOSED STORM DRAIN
6. STA 85+81±, 64'± RT, INV ELEV=0.0±
   EXIST COM
7. STA 85+81±, 55'± RT, INV ELEV=0.0±
   EXIST ELECTRIC
8. STA 85+81±, 55'± RT, INV ELEV=2739.6±
   EXIST 8" VCP SEWER
9. STA 85+81±, 40'± RT, INV ELEV=2736.2±
   EXIST 12" CA WATER
10. STA 85+74±, 77'± RT, INV ELEV=0.0±
    EXIST 6" CA WATER

W28 OF W39

CITY OF TUCSON

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

60%

NOT FOR CONSTRUCTION

22ND ST. STA 85+81
22ND ST. STA 85+81

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	291 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

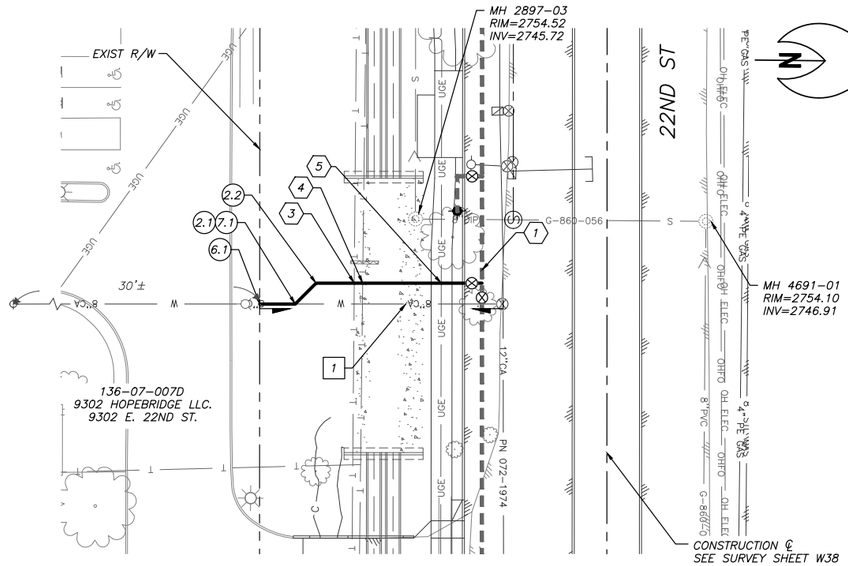
TW PLAN NO 4-014-2025

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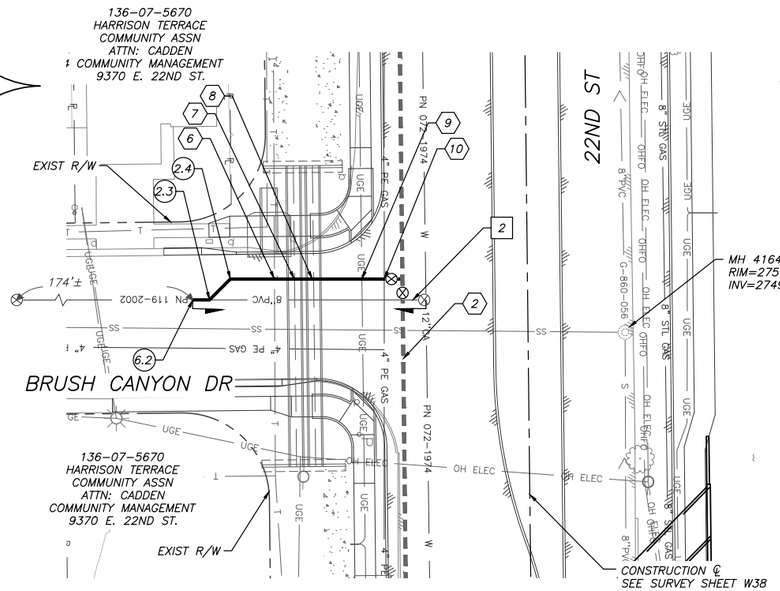
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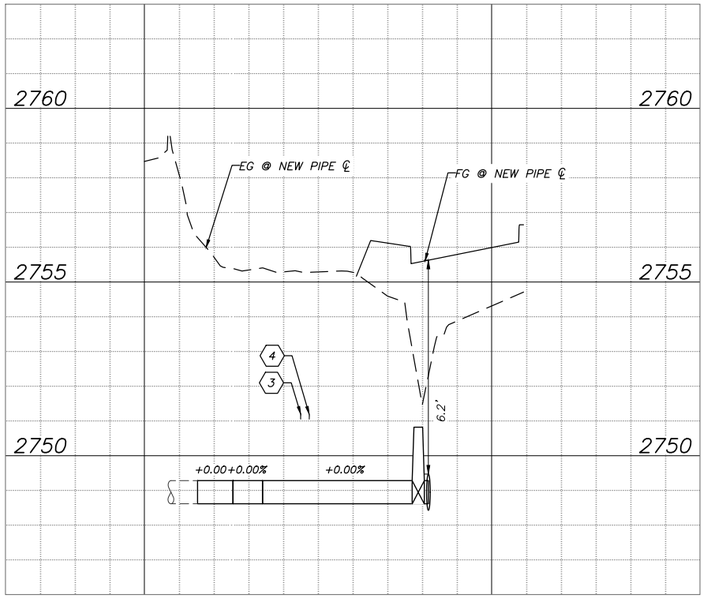
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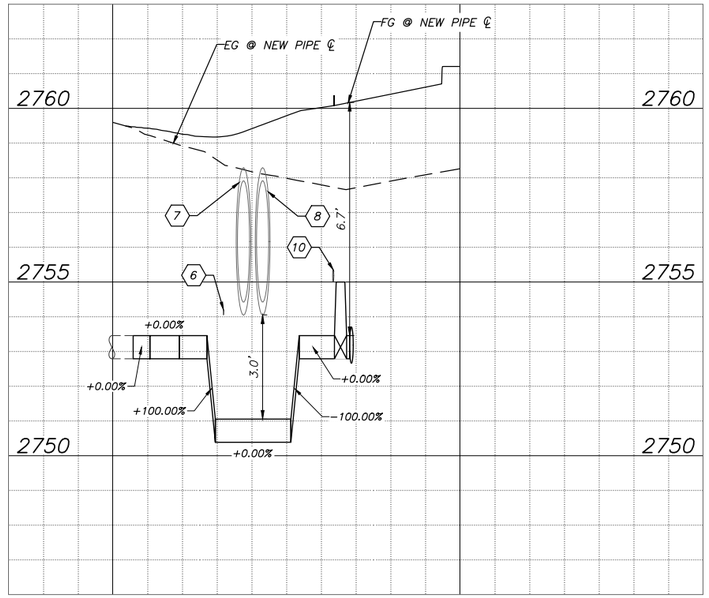


STA 91+35



STA 94+11





REMOVE / ABANDON NOTES

1. STA 91+41.26, 29.92' RT TO STA 91+41.28, 100.00' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 70± LF
2. STA 94+16.96, 29.29' RT TO STA 94+16.22, 96.42' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 67± LF

CONSTRUCTION NOTES

2.1 STA 91+41.29, 89.78' RT (HORIZ)
INV ELEV=0.0
2.2 STA 91+35.28, 83.78' RT (HORIZ)
INV ELEV=0.0
8" X 45° BEND — 2 EA (NPI)
2.3 STA 94+16.27, 91.61' RT (HORIZ)
INV ELEV=0.0
2.4 STA 94+10.34, 85.54' RT (HORIZ)
INV ELEV=0.0
8" X 45° BEND — 2 EA (NPI)
6.1 STA 91+41.30±, 99.99'± RT
INV ELEV=0.00±
CONNECT TO EXISTING 8" CA WATER
(SEE PN XXX-XXXX) — 1 EA (NPI)
6.2 STA 94+16.22±, 96.42'± RT
INV ELEV=0.00±
CONNECT TO EXISTING 8" CA WATER
(SEE PN 119-2002) — 1 EA (NPI)
7.1 THRUST BLOCKING TO BE INSTALLED PER SD-610

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W10
2. FOR MAIN PLAN & PROFILE, SEE SHEET W11
3. STA 91+35±, 73'± RT, INV ELEV=0.0±
   EXIST COM
4. STA 91+35±, 70'± RT, INV ELEV=0.0±
   EXIST COM
5. STA 91+35±, 48'± RT, INV ELEV=0.0±
   EXIST ELECTRIC
6. STA 94+10±, 73'± RT, INV ELEV=0.0±
   EXIST COM
7. STA 94+11±, 67'± RT, INV ELEV=2754.1±
   PROPOSED STORM DRAIN
8. STA 94+11±, 62'± RT, INV ELEV=2754.1±
   PROPOSED STORM DRAIN
9. STA 94+11±, 48'± RT, INV ELEV=0.0±
   EXIST ELECTRIC
10. STA 94+11±, 41'± RT, INV ELEV=2754.2±
    EXIST 4" PE GAS

W29 OF W39

CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

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CONSTRUCTION

22ND ST. STA 91+35
22ND ST. STA 94+11

DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	08/25		292 OF 316
DRAWN BY:	DATE	SCALE:	
DRS/JAL	08/25	VERT: 1" = 2'	PLAN NO.
CHECKED BY:	DATE	HORIZ: 1" = 20'	1-2025-004
CAW	08/25		

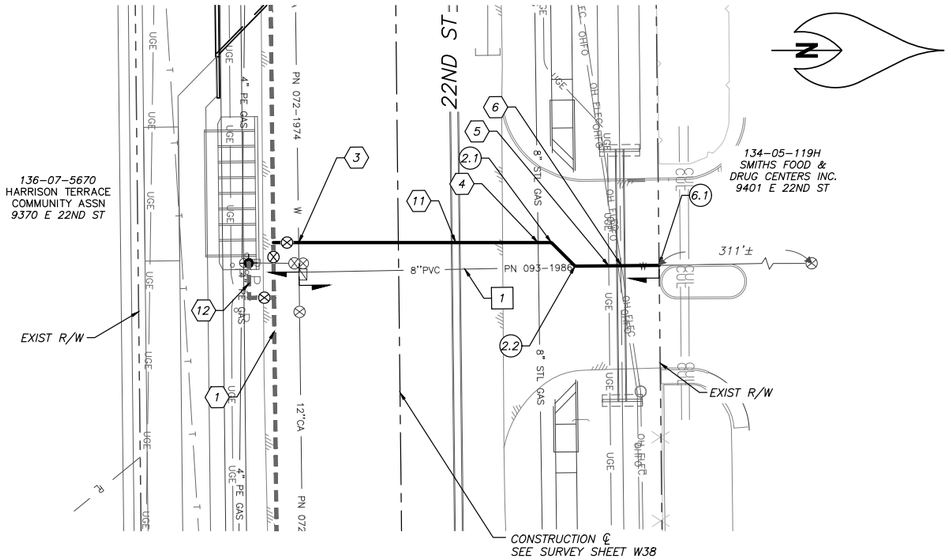
TW PLAN NO 4-014-2025

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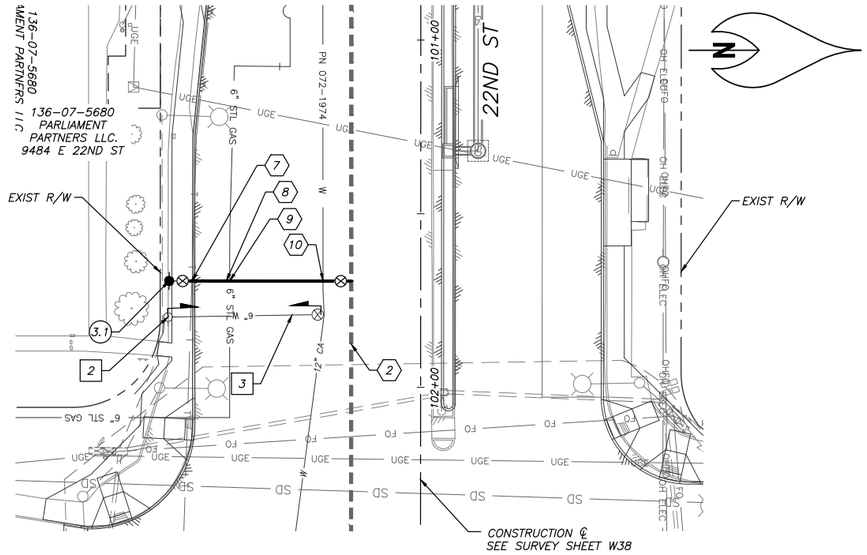
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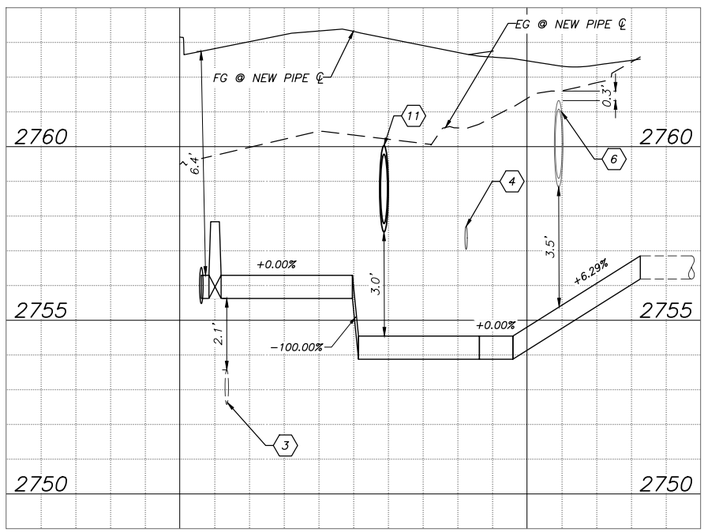
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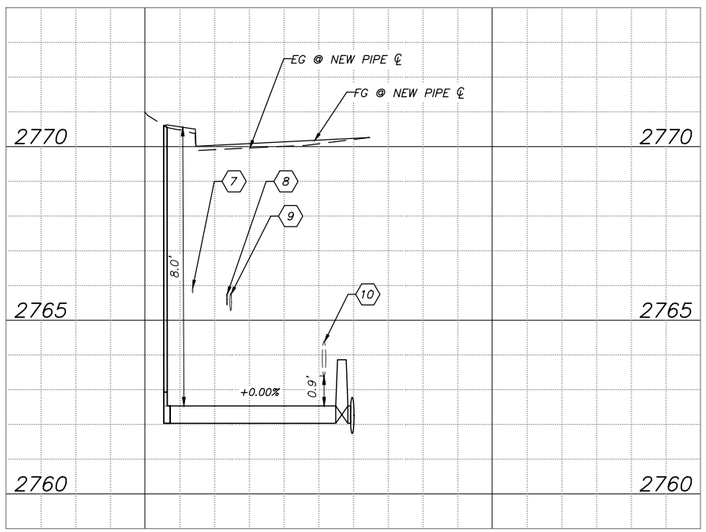


STA 96+75



STA 101+70





REMOVE / ABANDON NOTES

1. STA 96+82.96, 28.48' RT TO STA 96+82.13, 75.00' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE
   TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 104± LF
2. STA 101+79.78, 72.76' RT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES,
   EXIST 6" DIP, & GATE VALVE WITH BOX & COVER — 1 EA
3. STA 101+79.06, 27.78' RT TO STA 101+79.78, 72.76' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 45± LF

CONSTRUCTION NOTES

2.1. STA 96+75.20, 44.07' LT (HORIZ)
   INV ELEV=0.0
2.2. STA 96+82.07, 50.79' LT (HORIZ)
   INV ELEV=0.0
   8" X 45° BEND — 2 EA (NPI)
3.1. STA 101+69.37, 72.42' RT
   INV ELEV=0.00'
   FIRE HYDRANT ASSEMBLY PER SD-500 — 1 EA
6.1. STA 96+81.99±, 75.00'± LT
   INV ELEV=0.00±
   CONNECT TO EXISTING 8" PVC WATER
   (SEE PN 093-1986) — 1 EA (NPI)

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W12
2. FOR MAIN PLAN & PROFILE, SEE SHEET W13
3. STA 96+74±, 29'± RT, INV ELEV=2752.6±
   EXIST 12" CA WATER
4. STA 96+75±, 40'± LT, INV ELEV=2757.0±
   EXIST 8" STL GAS
5. STA 96+82±, 60'± LT, INV ELEV=0.0±
   EXIST ELECTRIC
6. STA 96+82±, 64'± LT, INV ELEV=2758.8±
   PROPOSED STORM DRAIN
7. STA 101+69±, 66'± RT, INV ELEV=2765.8±
   EXIST COM
8. STA 101+69±, 56'± RT, INV ELEV=2765.4±
   EXIST 4" PE GAS
9. STA 101+69±, 55'± RT, INV ELEV=2765.3±
   EXIST 6" STL GAS
10. STA 101+69±, 28'± RT, INV ELEV=2763.4±
    EXIST 12" CA WATER
11. STA 96+75±, 16'± LT, INV ELEV=0.0±
    PROPOSED STORM
12. FOR PLAN & PROFILE, SEE SHEET W12

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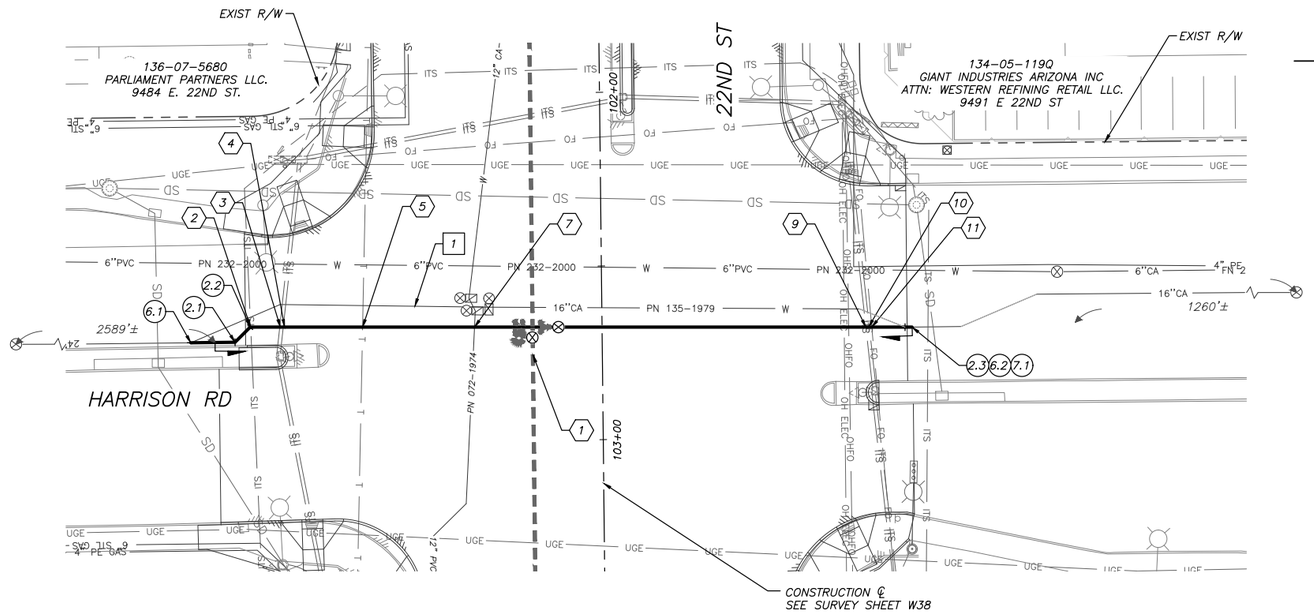
CITY OF TUCSON

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

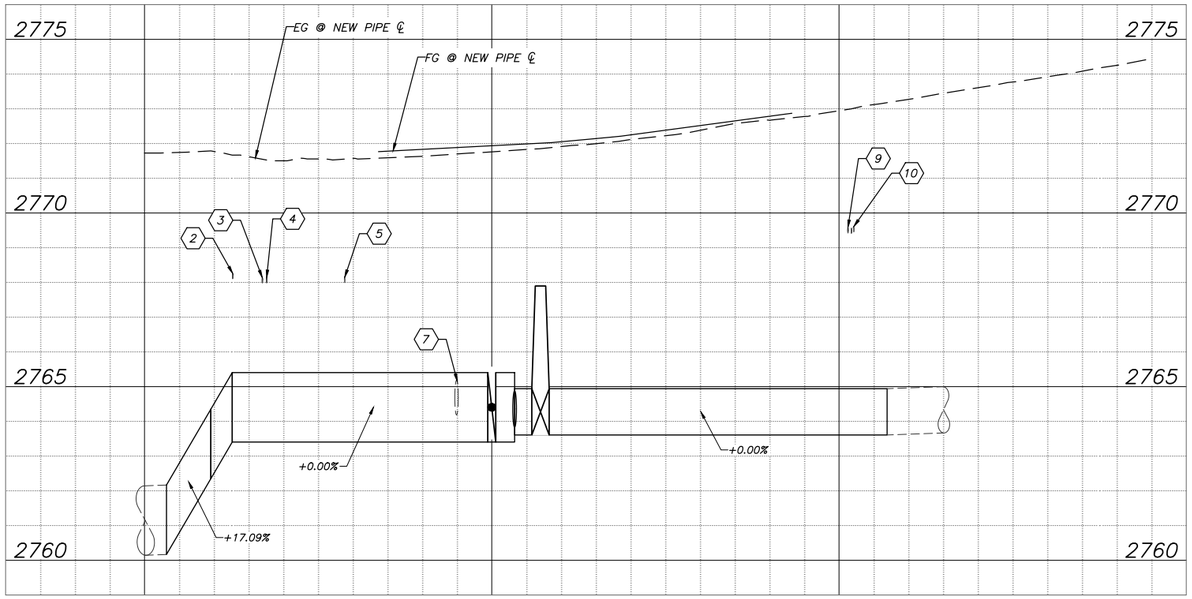
22ND ST. STA 96+75
22ND ST. STA 101+70

DESIGNED BY: SMM	DATE 08/25	FIELD BOOK NO.	293 OF 316
DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		

TW PLAN NO 4-014-2025



STA 102+65



REMOVE / ABANDON NOTES

1 STA 102+70.81, 111.46' RT TO STA 102+67.69, 136.31' LT
REMOVE & DISPOSE 24" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 274± LF

CONSTRUCTION NOTES

2.1 STA 102+70.80, 105.72' RT (HORIZ)
INV ELEV=0.0

2.2 STA 102+66.48, 101.30' RT (HORIZ)
INV ELEV=2768.1
24" X 45° BEND 2 EA (NPI)

2.3 STA 102+68.58, 89.28' LT (HORIZ)
INV ELEV=0.0
16" X 45° BEND 1 EA (NPI)

6.1 STA 102+70.81±, 118.47'± RT
INV ELEV=0.00±
CONNECT TO EXISTING 24" DI WATER
(SEE PN 232-2000) 1 EA (NPI)

6.2 STA 102+68.58±, 89.28'± LT
INV ELEV=0.00±
CONNECT TO EXISTING 16" CA WATER
(SEE PN 135-1979) 1 EA (NPI)

7.1 THRUST BLOCKING TO BE INSTALLED PER SD-610

REFERENCE NOTES

1 FOR MAIN PLAN & PROFILE, SEE SHEET W13
2 STA 102+65±, 101'± RT, INV ELEV=2768.1±
EXIST TRAFFIC SIGNAL CONDUIT
3 STA 102+65±, 93'± RT, INV ELEV=2768.0±
EXIST ITS
4 STA 102+65±, 92'± RT, INV ELEV=2768.0±
EXIST ITS
5 STA 102+65±, 69'± RT, INV ELEV=2768.0±
EXIST COM
7 STA 102+67±, 37'± RT, INV ELEV=2764.2±
EXIST 12" CA WATER
9 STA 102+68±, 76'± LT, INV ELEV=2769.4±
EXIST ITS
10 STA 102+68±, 77'± LT, INV ELEV=2769.4±
EXIST ITS
11 STA 102+68±, 78'± LT, INV ELEV=2769.5±
EXIST FIBER

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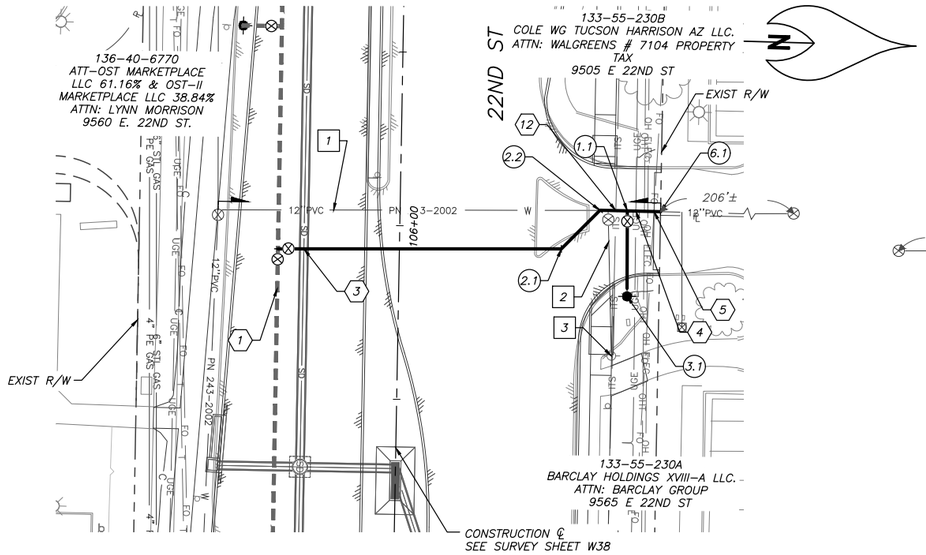
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22ND STREET
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60%
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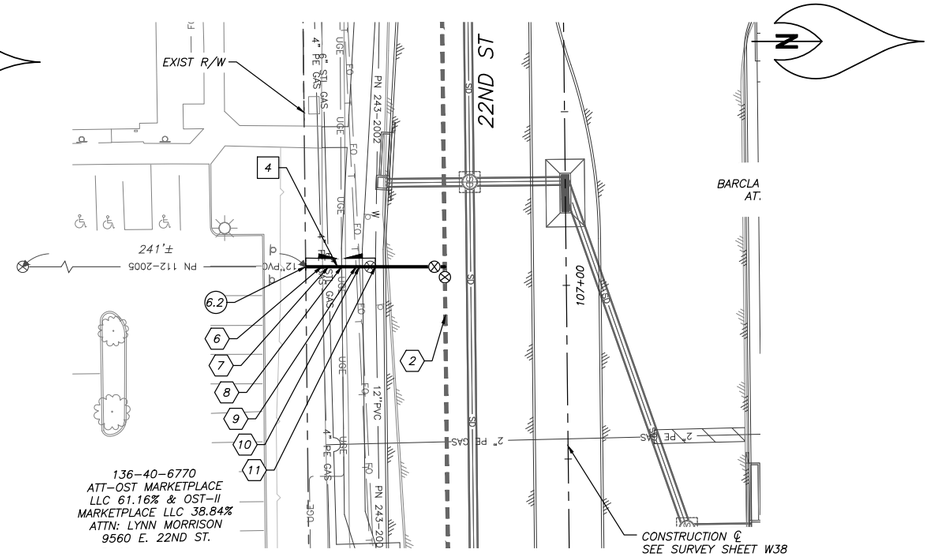
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DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		

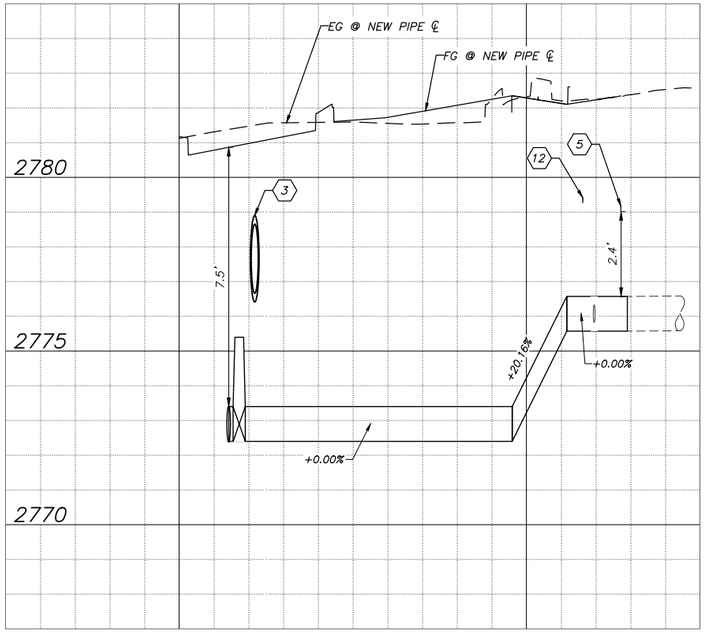
TW PLAN NO 4-014-2025

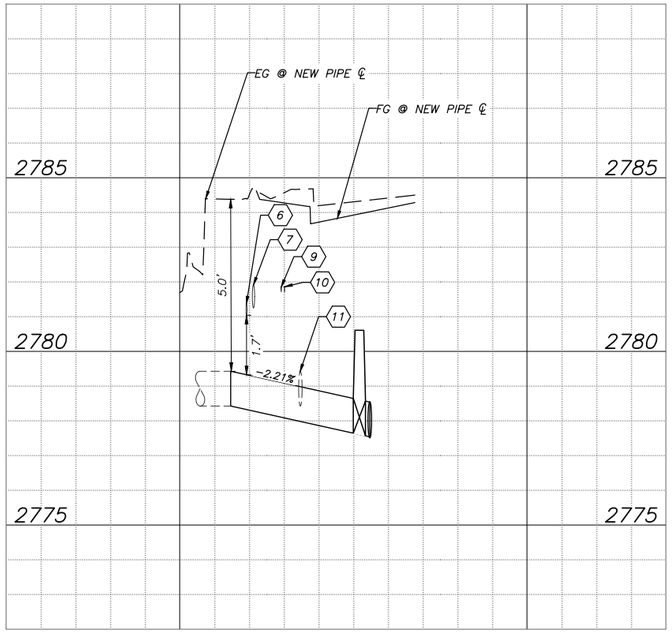


STA 106+08



STA 106+95





REMOVE / ABANDON NOTES

1. STA 105+96.38, 52.41' RT TO STA 105+94.61, 75.00' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 127± LF
2. STA 105+94.52, 59.90' LT TO STA 106+36.38, 61.55' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 42± LF
3. STA 106+36.38, 61.55' LT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES, EXIST 6" DIP, & GATE VALVE WITH BOX & COVER 1 EA
4. STA 106+94.05, 54.93' RT TO STA 106+93.83, 75.00' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER 20± LF

CONSTRUCTION NOTES

1.1. STA 105+94.55, 65.43' LT
   INV ELEV=0.00'
   12" x 6" TEE 1 EA (NPI)
   6" GATE VALVE, B&C (E) 1 EA
2.1. STA 106+05.83, 46.64' LT (HORIZ)
   INV ELEV=0.0
2.2. STA 105+94.56, 57.51' LT (HORIZ)
   INV ELEV=0.0
   12" X 45° BEND 2 EA (NPI)
3.1. STA 106+19.17, 65.80' LT
   INV ELEV=0.00'
   FIRE HYDRANT ASSEMBLY PER SD-500 1 EA
6.1. STA 105+94.61±, 75.00'± LT
   INV ELEV=0.00±
   CONNECT TO EXISTING 12" PVC WATER (SEE PN 243-2002) 1 EA (NPI)
6.2. STA 106+93.83±, 75.00'± RT
   INV ELEV=0.00±
   CONNECT TO EXISTING 12" PVC WATER (SEE PN 112-2005) 1 EA (NPI)

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W13
2. FOR MAIN PLAN & PROFILE, SEE SHEET W14
3. STA 106+07±, 27'± RT, INV ELEV=0.0±
   PROPOSED STORM DRAIN
4. STA 105+95±, 68'± LT, INV ELEV=0.0±
   EXIST ELECTRIC
5. STA 105+95±, 73'± LT, INV ELEV=2779.0±
   EXIST FIBER
6. STA 106+94±, 70'± RT, INV ELEV=2781.0±
   EXIST 4" PE GAS
7. STA 106+94±, 68'± RT, INV ELEV=2781.3±
   EXIST 6" STL GAS
8. STA 106+94±, 65'± RT, INV ELEV=0.0±
   EXIST ELECTRIC
9. STA 106+94±, 60'± RT, INV ELEV=2781.7±
   EXIST COM
10. STA 106+94±, 59'± RT, INV ELEV=2781.7±
    EXIST FIBER
11. STA 106+94±, 55'± LT, INV ELEV=2778.4±
    EXIST 12" PVC WATER
12. STA 105+95±, 62'± LT, INV ELEV=2779.3±
    EXIST ITS

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CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

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22ND ST. STA 106+08
22ND ST. STA 106+95

DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	08/25		295 OF 316
DRAWN BY:	DATE	SCALE:	
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CHECKED BY:	DATE	HORIZ: 1" = 20'	1-2025-004
CAW	08/25		

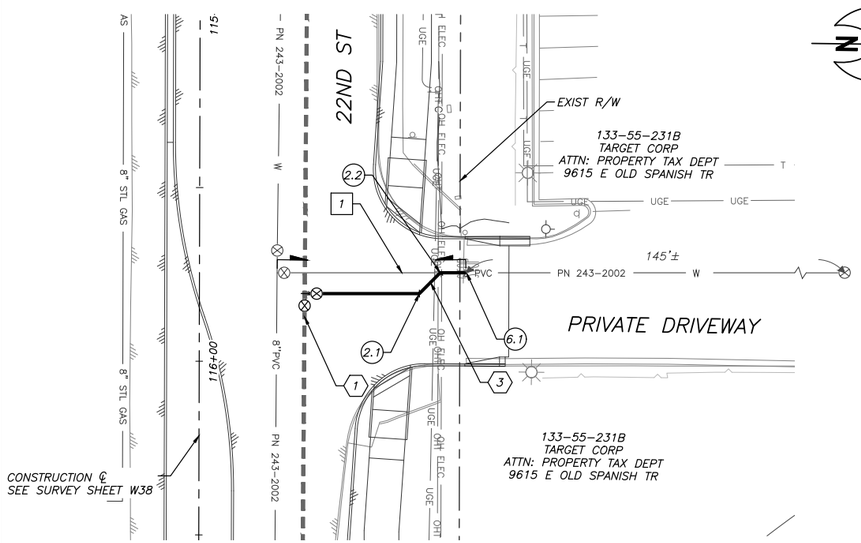
TW PLAN NO 4-014-2025

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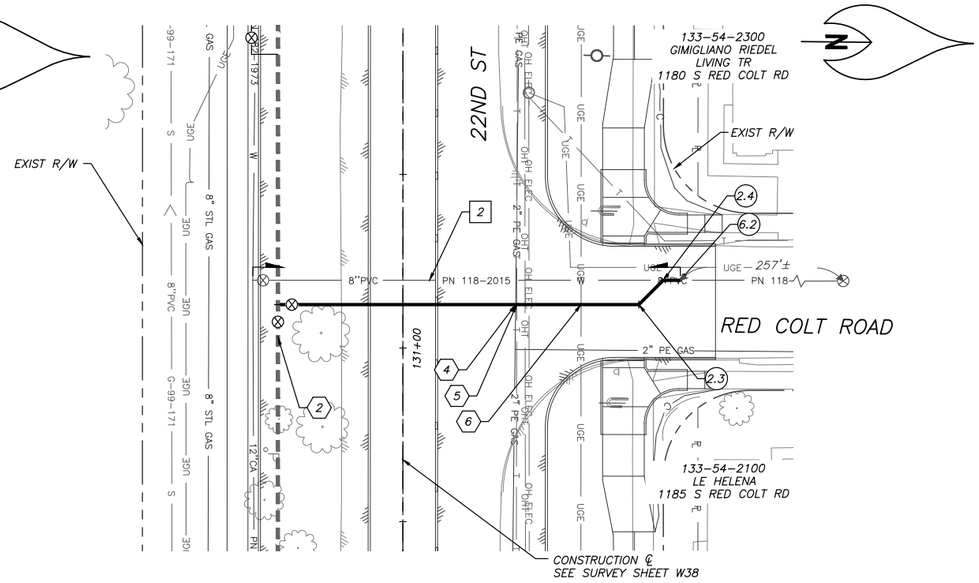
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STA 115+81



STA 130+88

REMOVE / ABANDON NOTES

1. STA 115+74.47, 22.37' LT TO STA 115+74.33, 76.88' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 54± LF
2. STA 130+80.48, 43.24' RT TO STA 130+80.48, 79.79' LT
   REMOVE & DISPOSE 12" AND SMALLER NON CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 123± LF

CONSTRUCTION NOTES

2.1. STA 115+80.37, 63.36' LT (HORIZ)
INV ELEV=0.0

2.2. STA 115+74.35, 69.34' LT (HORIZ)
INV ELEV=0.0
12" X 45° BEND — 2 EA (NPI)

2.3. STA 130+87.49, 67.93' LT (HORIZ)
INV ELEV=0.0

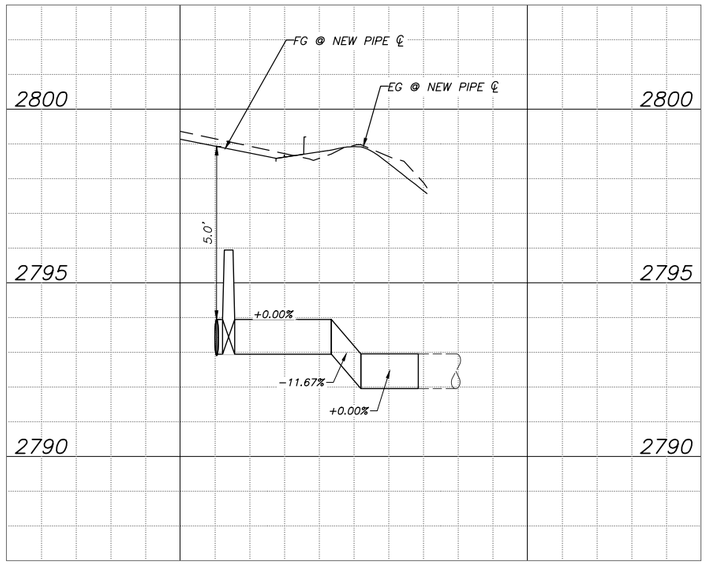
2.4. STA 130+80.48, 74.93' LT (HORIZ)
INV ELEV=0.0
12" X 45° BEND — 2 EA (NPI)

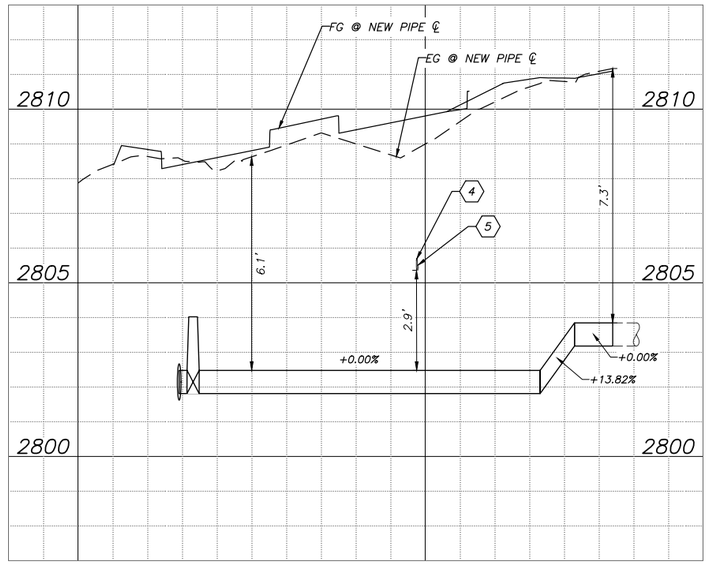
6.1. STA 115+74.33±, 76.89'± LT
INV ELEV=0.00±
CONNECT TO EXISTING 12" PVC WATER
(SEE PN 243-2002) — 1 EA (NPI)

6.2. STA 130+80.48±, 79.79'± LT
INV ELEV=0.00±
CONNECT TO EXISTING 8" PVC WATER
(SEE PN 118-2015) — 1 EA (NPI)

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W15
2. FOR MAIN PLAN & PROFILE, SEE SHEET W18
3. STA 115+77±, 67'± LT, INV ELEV=0.0±
   EXIST ELECTRIC
4. STA 130+87±, 32'± LT, INV ELEV=2805.4±
   EXIST 2" PE GAS
5. STA 130+87±, 33'± LT, INV ELEV=2805.4±
   EXIST COM
6. STA 130+87±, 53'± LT, INV ELEV=0.0±
   EXIST ELECTRIC





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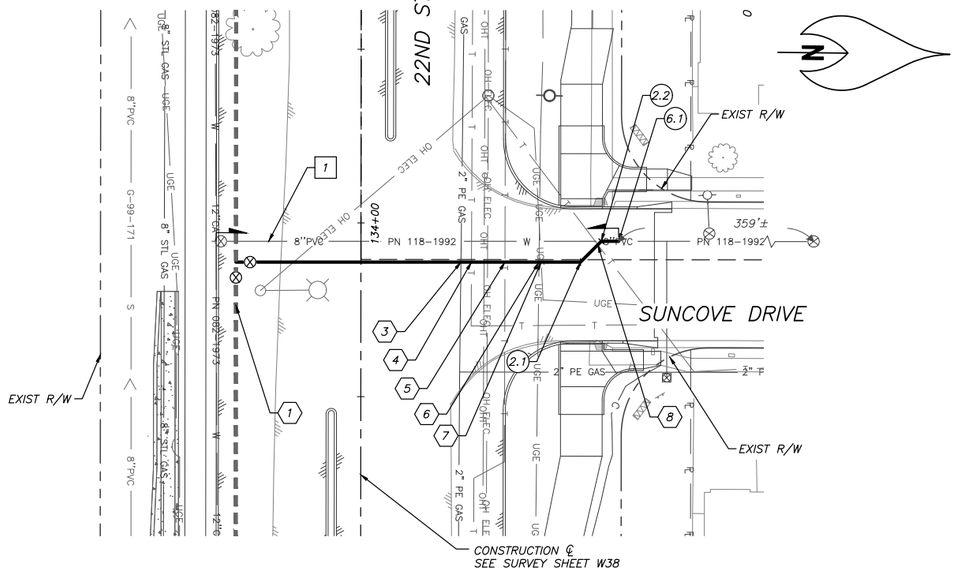
CITY OF TUCSON
TUCSON WATER

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

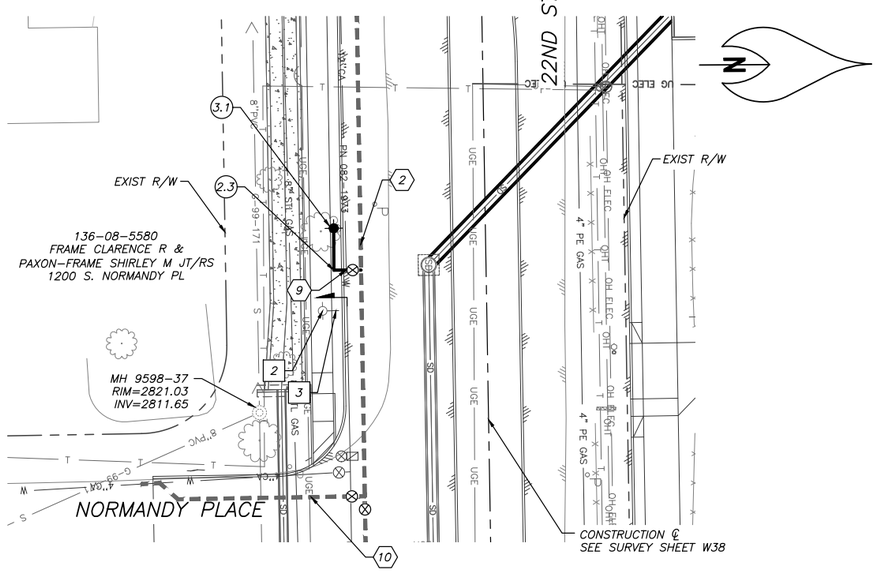
22ND ST. STA 115+81
22ND ST. STA 130+88

DESIGNED BY:	DATE	FIELD BOOK NO.	
SMM	08/25		296 OF 316
DRAWN BY:	DATE	SCALE:	PLAN NO.
DRS/JAL	08/25	VERT: 1" = 2' HORZ: 1" = 20'	1-2025-004
CHECKED BY:	DATE		
CAW	08/25		

TW PLAN NO 4-014-2025



STA 134+12



STA 137+25

REMOVE / ABANDON NOTES

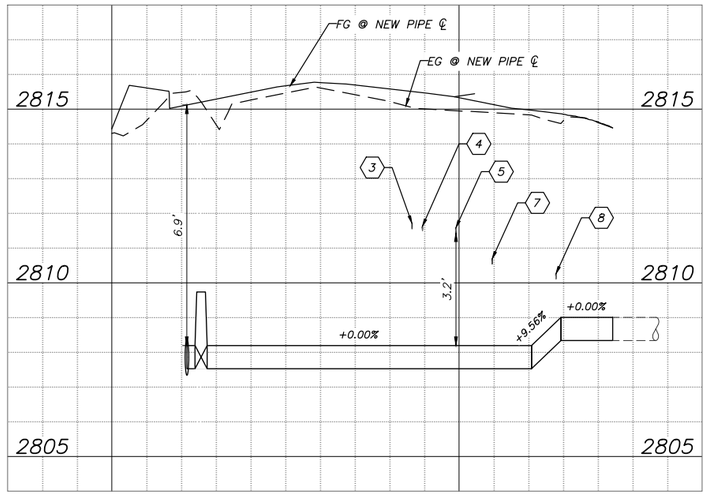
1. STA 134+05.31, 41.74' RT TO STA 134+05.20, 74.21' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 116± LF
2. STA 137+35.98, 47.26' RT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES,
   EXIST 6" DIP, & GATE VALVE WITH BOX & COVER — 1 EA
3. STA 137+35.98, 40.21' RT TO STA 137+35.98, 47.26' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 7± LF

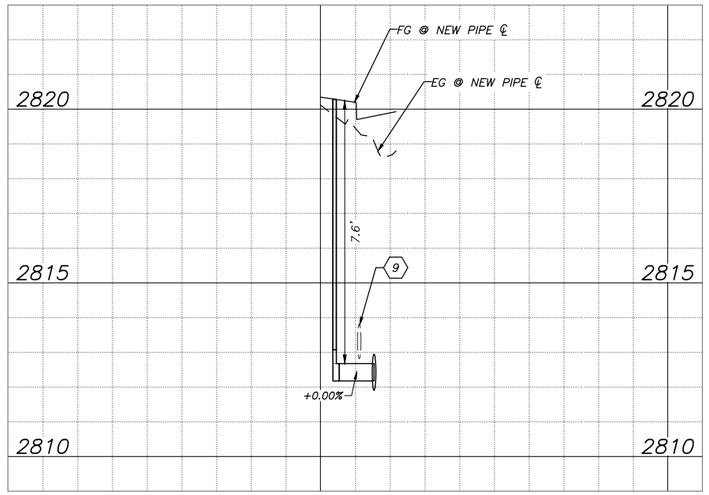
CONSTRUCTION NOTES

2.1. STA 134+11.21, 63.21' LT (HORIZ)
   INV ELEV=0.0
2.2. STA 134+05.20, 69.21' LT (HORIZ)
   INV ELEV=0.0
   8" X 45° BEND — 2 EA (NPI)
2.3. STA 137+24.31, 43.83' RT (HORIZ)
   INV ELEV=0.0
   8" X 90° BEND — 1 EA (NPI)
3.1. STA 137+12.27, 43.67' RT
   INV ELEV=0.00'
   FIRE HYDRANT ASSEMBLY PER SD-500 — 1 EA
6.1. STA 134+05.20±, 74.21'± LT
   INV ELEV=0.00±
   CONNECT TO EXISTING 8" PVC WATER
   (SEE PN 118-1992) — 1 EA (NPI)

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W19
2. FOR MAIN PLAN & PROFILE, SEE SHEET W20
3. STA 134+11±, 29'± LT, INV ELEV=2811.6±
   EXIST 2" PE GAS
4. STA 134+11±, 32'± LT, INV ELEV=2811.5±
   EXIST COM
5. STA 134+11±, 41'± LT, INV ELEV=2811.4±
   EXIST COM
6. STA 134+11±, 51'± LT, INV ELEV=0.0±
   EXIST ELECTRIC
7. STA 134+11±, 52'± LT, INV ELEV=0.0±
   EXIST ELECTRIC
8. STA 134+06±, 68'± LT, INV ELEV=0.0±
   EXIST COM
9. STA 137+24±, 40'± RT, INV ELEV=2812.8±
   EXIST 12" CA WATER
10. FOR PLAN & PROFILE, SEE SHEET W35





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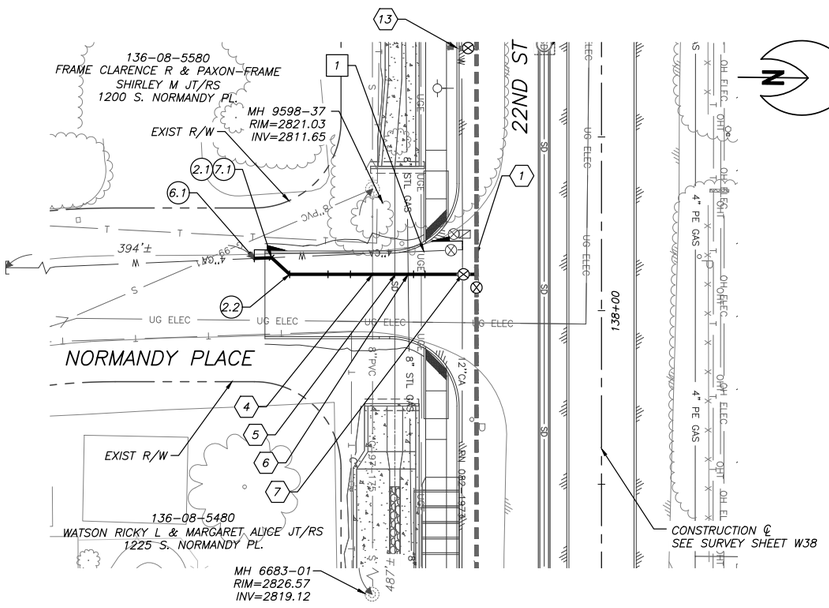
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CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

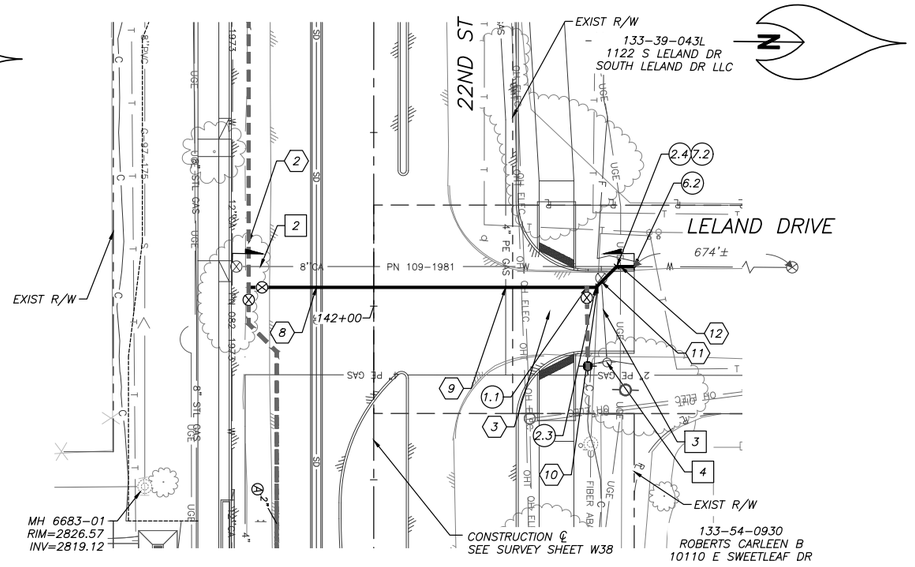
22ND ST. STA 134+12
22ND ST. STA 137+25

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	297 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

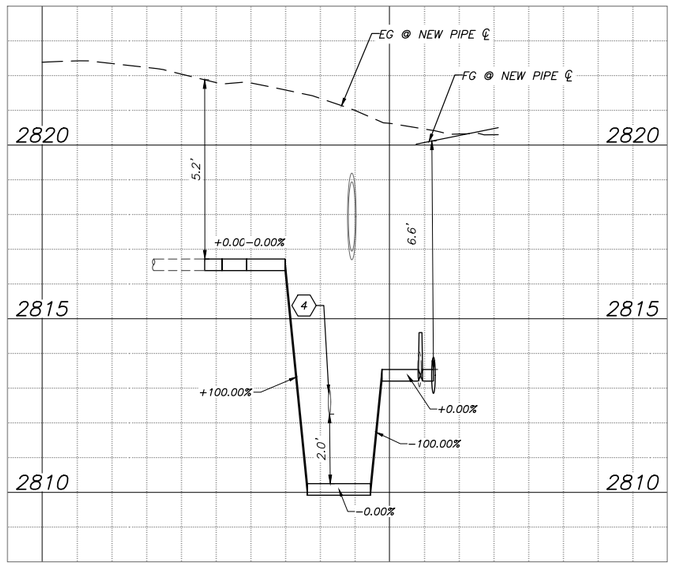
TW PLAN NO 4-014-2025

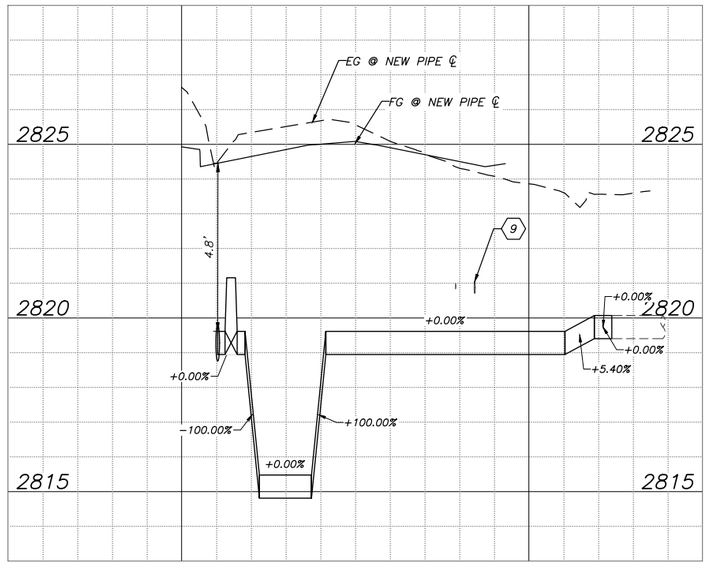


STA 137+89



STA 141+95





REMOVE / ABANDON NOTES

1. STA 137+82.45, 40.09' RT TO STA 137+84.96, 100.00' RT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 60± LF
2. STA 141+88.59, 40.74' RT TO STA 141+88.61, 75.00' LT
   REMOVE & DISPOSE 12" & SMALLER CA PIPE TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 116± LF
3. STA 141+88.59, 65.53' LT TO STA 142+16.23, 67.19' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 28± LF
4. STA 142+16.23, 67.19' LT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES, EXIST 6" DIP, & GATE VALVE WITH BOX & COVER — 1 EA

CONSTRUCTION NOTES

1.1 STA 141+94.59, 50.57' LT
INV ELEV=0.00'
8" x 6" TEE — 1 EA (NPI)
6" GATE VALVE, B&C (E) — 1 EA

2.1 STA 137+84.75, 95.01' RT (HORIZ)
INV ELEV=0.0

2.2 STA 137+89.54, 89.80' RT (HORIZ)
INV ELEV=0.0
4" X 45° BEND — 2 EA (NPI)

2.3 STA 141+94.59, 63.99' LT (HORIZ)
INV ELEV=0.0

2.4 STA 141+88.61, 69.97' LT (HORIZ)
INV ELEV=0.0
8" X 45° BEND — 2 EA (NPI)

6.1 STA 137+84.96±, 100.00'± RT
INV ELEV=0.00±
CONNECT TO EXISTING 4" CA WATER
(SEE PN 082-1973) — 1 EA (NPI)

6.2 STA 141+88.61±, 75.00'± LT
INV ELEV=0.00±
CONNECT TO EXISTING 8" CA WATER
(SEE PN 109-1981) — 1 EA (NPI)

7.1 THRUST BLOCKING TO BE INSTALLED PER SD-610

7.2 THRUST BLOCKING TO BE INSTALLED PER SD-610

REFERENCE NOTES

1. FOR MAIN PLAN & PROFILE, SEE SHEET W20
2. FOR MAIN PLAN & PROFILE, SEE SHEET W21
3. FOR LATERAL LINE PLAN & PROFILE, SEE SHEET W36
4. STA 137+90±, 66'± RT, INV ELEV=2812.3±
   EXIST 8" PVC SEWER
5. STA 137+90±, 59'± RT, INV ELEV=2816.7±
   EXIST ELECTRIC
6. STA 137+90±, 56'± RT, INV ELEV=0.0±
   EXIST 8" STL GAS
7. STA 137+90±, 40'± RT, INV ELEV=0.0±
   EXIST 12" CA WATER
8. STA 141+95±, 16'± RT, INV ELEV=0.0±
   EXIST STORM DRAIN
9. STA 141+95±, 38'± LT, INV ELEV=2820.7±
   EXIST 4" PE GAS
10. STA 141+94±, 65'± LT, INV ELEV=0.0±
    EXIST ABANDONED COM
11. STA 141+93±, 66'± LT, INV ELEV=0.0±
    EXIST 6" DIP
12. STA 141+89±, 71'± LT, INV ELEV=0.0±
    EXIST ELECTRIC
13. FOR PLAN & PROFILE, SEE SHEET W20

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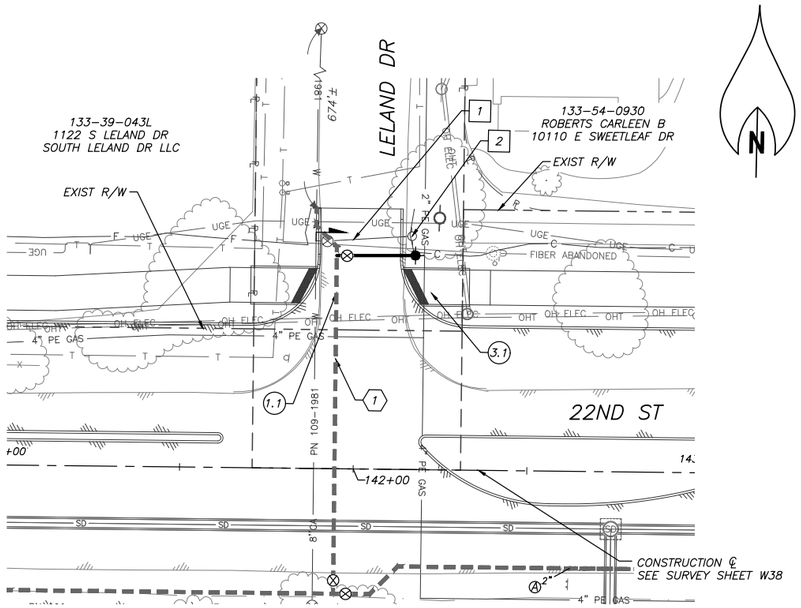
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CITY OF TUCSON
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

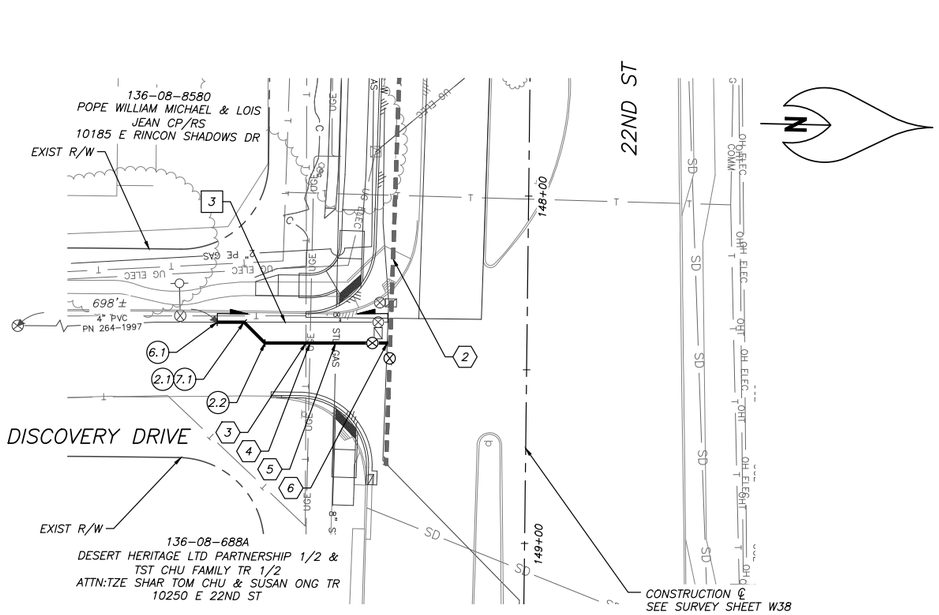
22ND ST. STA 137+89
22ND ST. STA 141+95

DESIGNED BY: SMM	DATE 08/25	FIELD BOOK NO.	298 OF 316
DRAWN BY: DRS/JAL	DATE 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE 08/25		

TW PLAN NO 4-014-2025



STA 141+95



STA 148+43

REMOVE / ABANDON NOTES

1. STA 141+88.59, 65.53' LT TO STA 142+16.23, 67.19' LT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER 28± LF
2. STA 142+16.23, 67.19' LT
   REMOVE EXIST FIRE HYDRANT ASSEMBLY, APPURTENANCES,
   EXIST 6" DIP, & GATE VALVE WITH BOX & COVER 1 EA
3. STA 148+36.77, 40.08' RT TO STA 148+37.34, 89.26' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA PIPE TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER 49± LF

CONSTRUCTION NOTES

1.1 STA 141+94.59, 50.57' LT
   INV ELEV=0.00'
   8" x 6" TEE 1 EA (NPI)
   6" GATE VALVE, B&C (E) 1 EA

2.1 STA 148+37.25, 81.52' RT (HORIZ)
   INV ELEV=0.0

2.2 STA 148+43.18, 75.45' RT (HORIZ)
   INV ELEV=0.0
   6" X 45° BEND 2 EA (NPI)

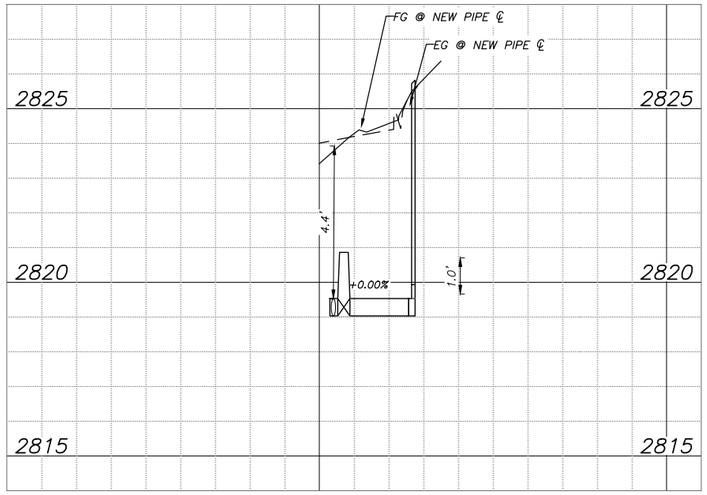
3.1 STA 142+22.01, 50.84' LT
   INV ELEV=0.00'
   FIRE HYDRANT ASSEMBLY PER SD-500 1 EA

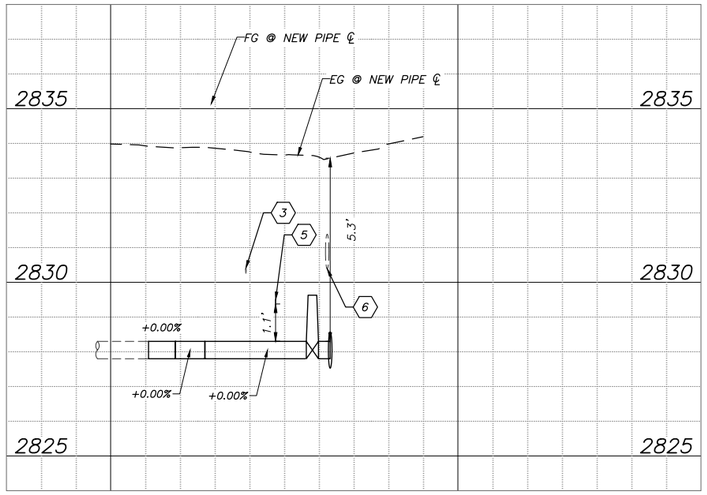
6.1 STA 148+37.34±, 89.26'± RT
   INV ELEV=0.00±
   CONNECT TO EXISTING 6" CA WATER
   (SEE PN 082-1973) 1 EA (NPI)

7.1 THRUST BLOCKING TO BE INSTALLED PER SD-610

REFERENCE NOTES

1. FOR LATERAL LINE PLAN & PROFILE, SEE SHEET W35
2. FOR MAIN PLAN & PROFILE, SEE SHEET W22
3. STA 148+43±, 64'± RT, INV ELEV=2830.3±
   EXIST COM
4. STA 148+43±, 62'± RT,
   EXIST ELECTRIC
5. STA 148+43±, 55'± RT, INV ELEV=2829.4±
   EXIST 8" STL GAS
6. STA 148+43±, 40'± RT, INV ELEV=2830.4±
   EXIST 12" CA WATER





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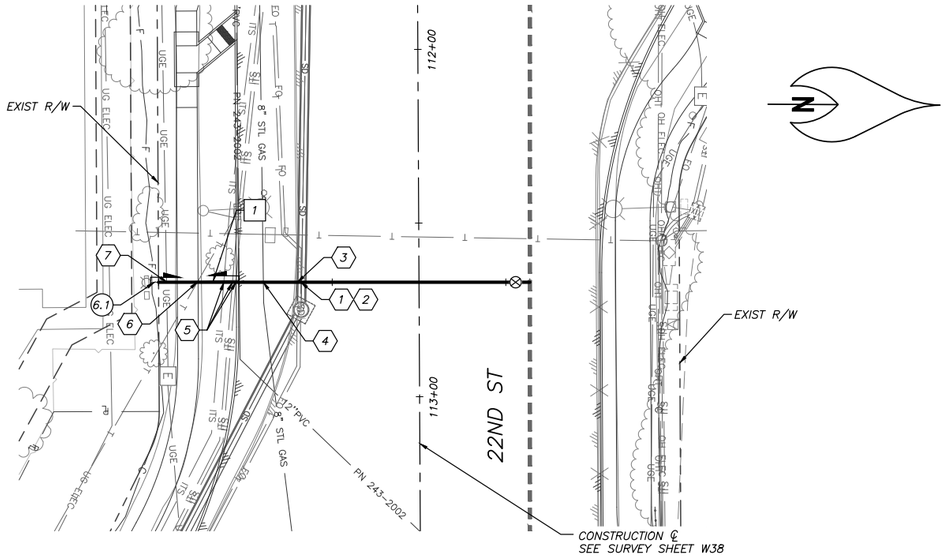
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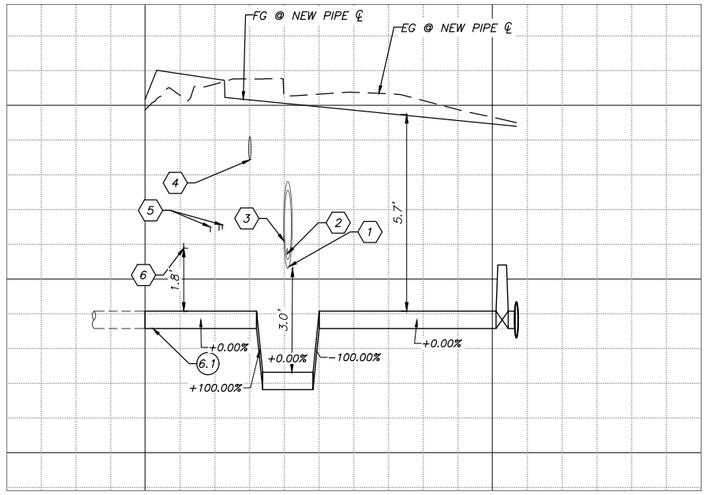
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

22ND ST. STA 141+95
22ND ST. STA 148+43

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORIZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		



STA 112+67



REMOVE/ ABANDON NOTES

1. STA 112+66.22, 51.78' RT TO STA 112+66.65, 75.00' RT
   REMOVE & DISPOSE 12" & SMALLER NON CA TO
   NEAREST JOINT, & GATE VALVES WITH BOX & COVER — 23± LF

CONSTRUCTION NOTES

6.1. STA 112+66.68±, 76.24'± RT
   INV ELEV=0.00±
   CONNECT TO EXISTING 6" FIRE SERVICE

REFERENCE NOTES

1. STA 112+67±, 34'± RT, INV ELEV=2795.3±
   PROPOSED STORM DRAIN
2. STA 112+67±, 34'± RT, INV ELEV=2795.7±
   EXIST FIBER (TO BE RELOCATED BY OTHERS)
3. STA 112+67±, 35'± RT, INV ELEV=2795.7±
   EXIST COM (TO BE RELOCATED BY OTHERS)
4. STA 112+67±, 45'± RT, INV ELEV=2798.4±
   EXIST 8" STL GAS
5. STA 112+67±, 54'± RT, INV ELEV=2796.4±
   EXIST ITS
6. STA 112+67±, 64'± RT, INV ELEV=2795.9±
   EXIST COM
7. STA 112+67±, 73'± RT,
   PROPOSED ELECTRIC

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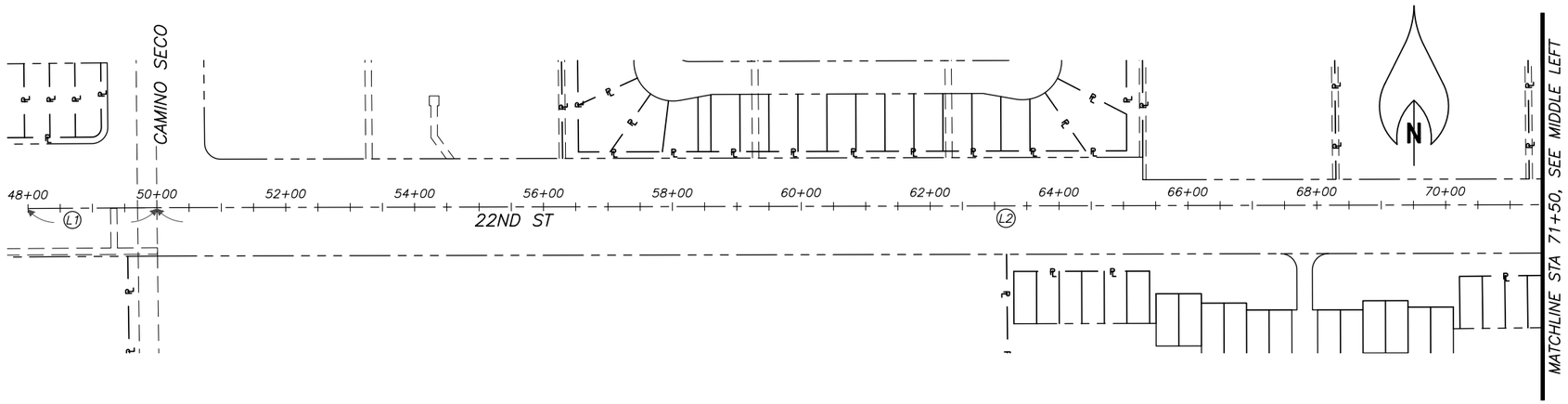
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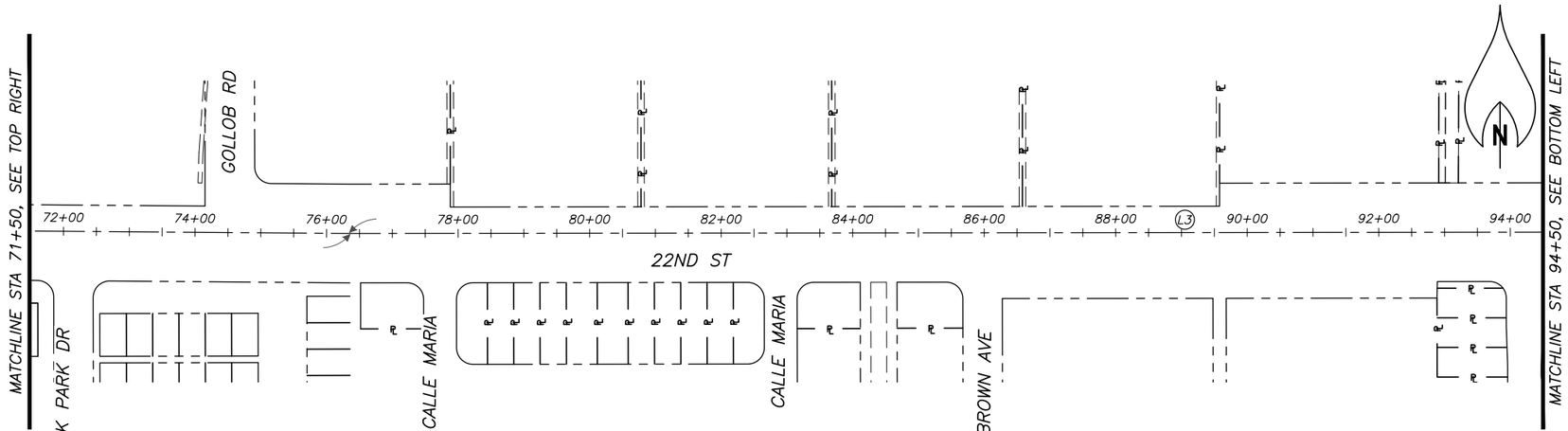
CITY OF TUCSON
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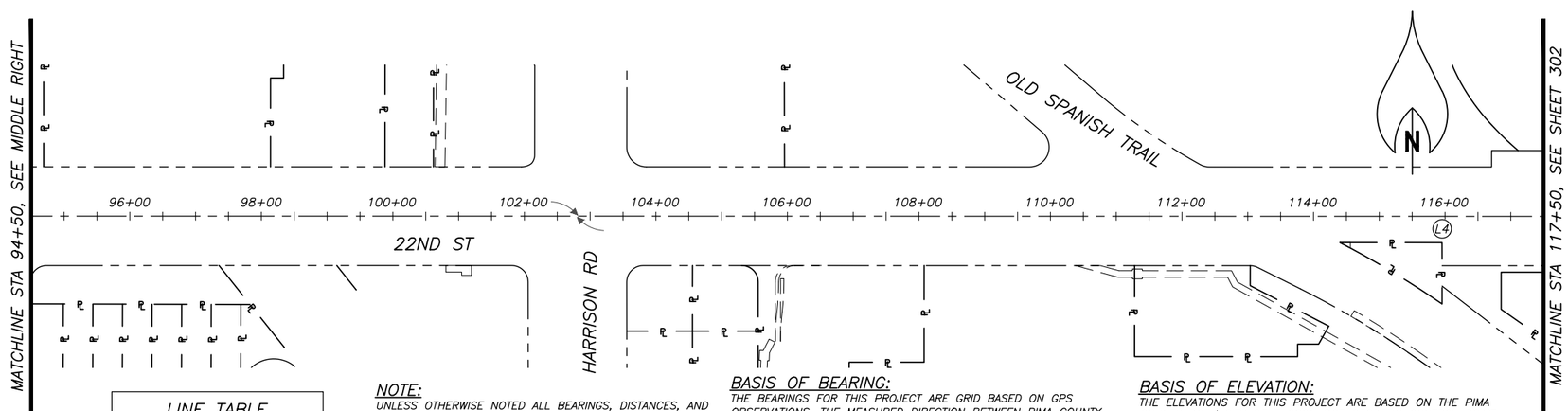
22ND ST. STA 112+67

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	300 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: 1" = 2' HORZ: 1" = 20'	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4-014-2025







LINE TABLE		
LINE #	BEARING	LENGTH
L1	N89°38'27"E	200.0
L2	N89°52'36"E	2635.3
L3	N89°22'13"E	2645.4
L4	N89°22'57"E	2629.8

NOTE:
UNLESS OTHERWISE NOTED ALL BEARINGS, DISTANCES, AND COORDINATES SHOWN ARE GRID DATA REFERENCED TO THE ARIZONA COORDINATE SYSTEM, 1983, CENTRAL ZONE.

BASIS OF BEARING:
THE BEARINGS FOR THIS PROJECT ARE GRID BASED ON GPS OBSERVATIONS. THE MEASURED DIRECTION BETWEEN PIMA COUNTY DOT/ CITY OF TUCSON DOT GEODETIC CONTROL POINT "N17" (CP #28) AND PIMA COUNTY DOT/ CITY OF TUCSON DOT GEODETIC CONTROL POINT "N19" (CP #41) IS N89°22'57"E.

BASIS OF ELEVATION:
THE ELEVATIONS FOR THIS PROJECT ARE BASED ON THE PIMA COUNTY DOT/ CITY OF TUCSON DOT GEODETIC CONTROL POINT "N17" (CP #28) A 2" BCSM IN CENTERLINE OF HARRISON ROAD AND CENTERLINE OF 22ND STREET. THE ELEVATION OF SAID POINT BEING 2771.72' ~~NAVD88~~.

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NO.	BY	DATE	REVISION	APPR.	DATE

POINT TABLE				
CP #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	440586.0±	1043273.7±	2694.14±	MON / FND 2IN BCSM IN HH PLS 20373
2	440590.7±	1045488.6±	2728.47±	MON / FND UNKNOWN SEE PIC
3	440490.7±	1045489.7±	2728.34±	MON / FND 2IN BCSM PUNCH ONLY
4	440515.8±	1045544.6±	2729.06±	MON / FND 4R W TAG APM 9432 BENT 0.25FT N SHOT AT BEND
5	440591.3±	1045734.2±	2732.29±	MON / FND IRON PIN
6	440591.7±	1045909.0±	2734.28±	MON / FND 2IN.BCSM IN CONC PCHD DN.45 IN PVMT
7	440516.7±	1045909.2±	2734.13±	MON / FND 60D
8	440517.6±	1046001.5±	2736.36±	MON / FND 60D
9	440593.1±	1046046.0±	2736.23±	MON / FND 2IN BCSM DOWN 0.35FT
10	440369.2±	1046048.6±	2735.95±	MON / FND 2IN BCSM PE 1260
11	440598.8±	1046564.0±	2743.59±	MON / FND 2IN BCSM PE 1260
12	440523.2±	1046592.9±	2742.30±	MON / FND 4R WIRE NO TAG
13	440524.4±	1046614.9±	2743.10±	MON / FND 4R W TAG PE 1260
14	440374.9±	1046566.6±	2740.44±	MON / FND 2IN BCSM PE 1260
15	440526.6±	1046816.9±	2745.70±	MON / FND 4R PE 1260
16	440501.9±	1046842.1±	2745.69±	MON / FND 4R NO TAG 0.80FT DOWN
17	440602.2±	1046871.0±	2746.93±	MON / FND 2IN BCSM PE 1260
18	440502.7±	1046902.0±	2745.82±	MON / FND 4R NO TAG BENT 0.35FT E SHOT AT BEND
19	440502.5±	1046902.1±	2745.80±	MON / FND 4R NO TAG BENT 0.35FT E SHOT AT BEND
20	440681.1±	1047231.0±	2752.17±	MON / FND 60D
21	440506.2±	1047222.9±	2753.63±	MON / FND 4R FLAG NO TAG
22	440506.5±	1047242.9±	2753.98±	MON / FND 1.5IN ACP TRIMBLE PE 2201
23	440611.3±	1047695.0±	2758.53±	MON / FND 2IN BCSM RLS 19316
24	440686.7±	1047741.9±	2757.86±	MON / FND 4R W TAG LS 13178
25	440694.7±	1048468.3±	2772.21±	MON / FND 4R NO TAG
26	440544.6±	1048455.4±	2770.54±	MON / FND 4R BENT 0.25 WEST SHOT AT BASE NO TAG
27	440519.9±	1048480.4±	2771.45±	MON / FND 4R W TAG RLS 19316
28	440620.7±	1048554.3±	2771.70±	MON / FND 2IN BCSM IN HH RLS 23956 "N17"
29	440726.6±	1048628.1±	2778.37±	MON / FND PCP GOETZ LS 31020
30	440521.5±	1048630.4±	2774.85±	MON / FND 4R W TAG RLS 31031
31	440548.5±	1048805.1±	2779.62±	MON / FND 4R W TAG RLS 31031
32	440551.4±	1049082.5±	2786.85±	MON / FND CONC NAIL W TAG NO READ
33	440554.8±	1049402.4±	2796.22±	MON / FND 4R REC-LS 17479
34	440631.4±	1049544.9±	2800.20±	MON / FND STEM
35	440556.7±	1049578.3±	2802.11±	MON / FND 4R REC-LS 17479
36	440593.8±	1049715.1±	2805.01±	MON / FND 60D
37	440420.8±	1049770.4±	2801.29±	MON / SET SPIKE NAIL
38	440416.4±	1049794.5±	2804.11±	MON / SET 5R + PSOMAS CONTROL TAG
39	440501.7±	1049870.6±	2805.31±	MON / FND 4R FLAG NO TAG

BASIS OF COORDINATES:
THE COORDINATES FOR THIS PROJECT ARE ARIZONA STATE PLANE-CENTRAL ZONE-INTERNATIONAL FEET BASED ON PIMA COUNTY DOT/ CITY OF TUCSON DTM GEODETIC CONTROL POINT "N17" (CP #28).

"N17" HAS A COMBINED SCALE FACTOR OF 0.999911015. THIS SHOULD BE USED WHEN CONVERTING GROUND VALUES TO ARIZONA STATE PLANE CENTRAL ZONE (NAD83) VALUES.

"N17" HAS A 1/X COMBINED SCALE FACTOR OF 1.0000889929. THIS SHOULD BE USED WHEN CONVERTING ARIZONA STATE PLANE CENTRAL ZONE (NAD83) VALUES TO GROUND VALUES.

CITY OF TUCSON

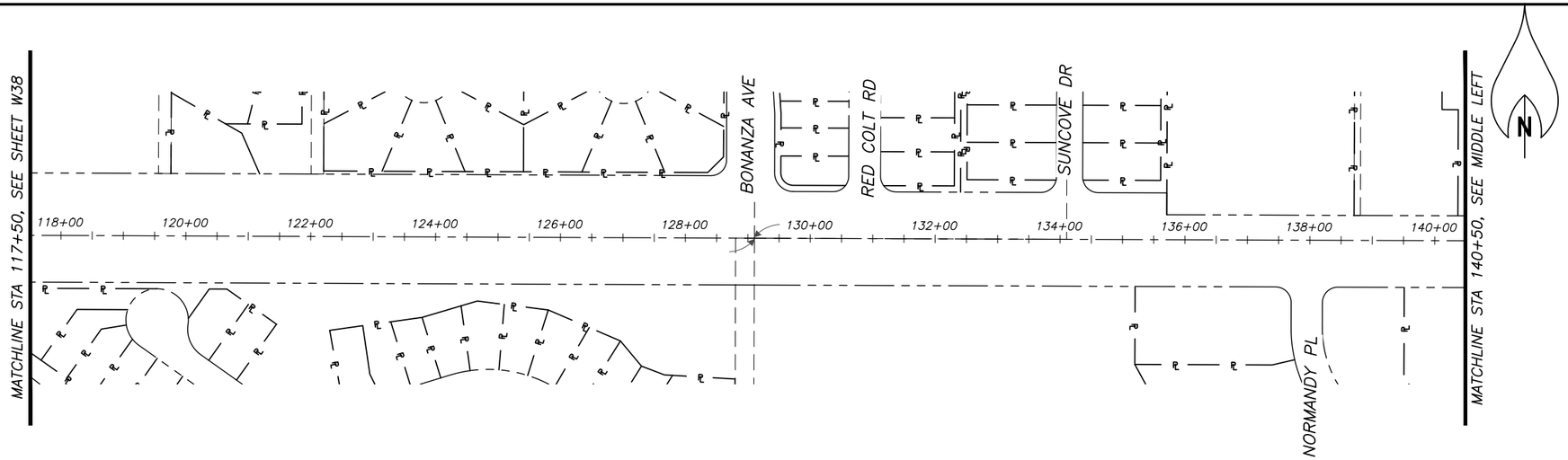
22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

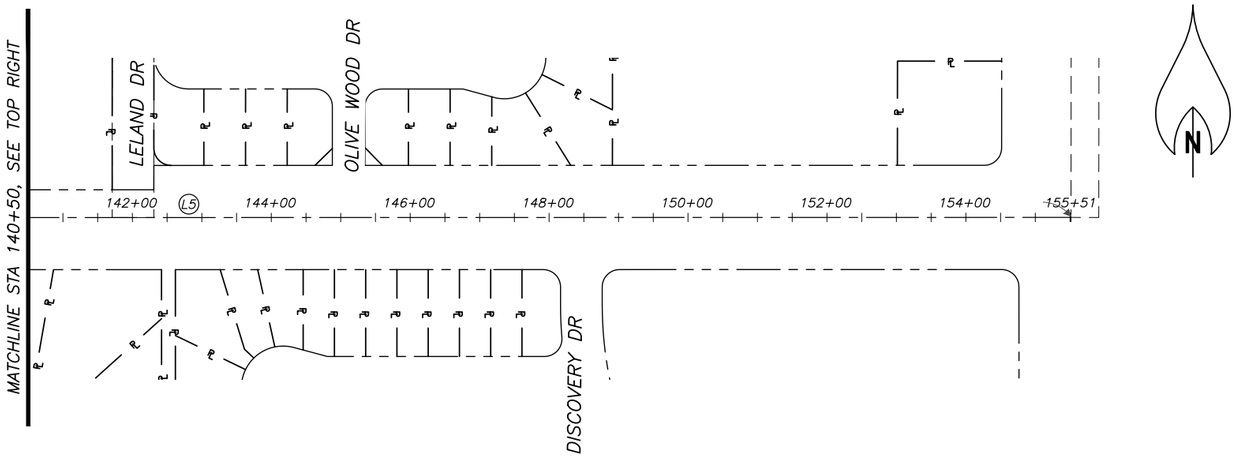
60%
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SURVEY CONTROL 1

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	301 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: NO SCALE HORIZ: 1" = 100	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4-014-2025





POINT TABLE

CP #	NORTHING	EASTING	ELEVATION	DESCRIPTION
40	440739.0±	1050248.2±	2788.11±	MON / FND 1IN PCP RLS 33821
41	440649.1±	1051183.9±	2805.28±	MON / FND 2IN BCSM IN CONC LS 25086 "N19"
42	440651.1±	1051360.1±	2809.02±	MON / FND 2IN BCSM PLS 22245
43	440654.7±	1051688.3±	2815.41±	MON / FND 2IN BCSM LS 25286
44	440583.4±	1052019.7±	2821.39±	MON / FND 4R NO TAG
45	440558.7±	1052044.9±	2822.44±	MON / FND 4R W TAG RLS 14172
46	440559.0±	1052070.0±	2822.44±	MON / FND 2IN BCSM COT RLS 14172
47	440519.0±	1052070.5±	2822.89±	MON / FND 2IN BCSM COT RLS 14172
48	440559.3±	1052095.0±	2823.59±	MON / FND 4R W TAG RLS 14172
49	440584.6±	1052119.6±	2824.02±	MON / FND 4R W TAG RLS 14172
50	440667.0±	1052784.8±	2830.62±	MON / FND 2IN BCSM COT RLS 30352
51	440875.0±	1052782.6±	2827.61±	MON / FND 2IN BCSM RLS 19862
52	440678.6±	1053824.6±	2840.44±	MON / FND 2IN BCSM IN HH COT RLS 30352

LINE TABLE

LINE #	BEARING	LENGTH
L4	N89°22'57"E	2629.8
L5	N89°21'32"E	2640.9

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

Kimley»Horn

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Tucson, Arizona 85718 (520) 615-9191

NO.	BY	DATE	REVISION	APPR.	DATE

60%
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CONSTRUCTION

W39 OF W39

CITY OF TUCSON
TUCSON WATER

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
WATER MODIFICATION PLANS

SURVEY CONTROL 2

DESIGNED BY: SMM	DATE: 08/25	FIELD BOOK NO.	302 OF 316
DRAWN BY: DRS/JAL	DATE: 08/25	SCALE: VERT: NO SCALE HORIZ: 1" = 100	PLAN NO. 1-2025-004
CHECKED BY: CAW	DATE: 08/25		

TW PLAN NO 4-014-2025

22ND STREET
CAMINO SECO TO HOUGHTON ROAD
C.O.T. PROJECT NO. SR20

GENERAL NOTES

1. HORIZONTAL CONTROL:
THIS PROJECT IS BASED UPON THE ARIZONA COORDINATE SYSTEM, 1983 (ACS 83), NAD83 (2011) (2010.0000) REFERENCE FRAME, USES INTERNATIONAL FEET, AND IS LOCATED IN THE CENTRAL ZONE OF SAID COORDINATE SYSTEM. THE CONTROL NETWORK WAS SURVEYED BY PSOMAS IN JUNE 2024 UTILIZING STATIC AND RTK GPS AND INCORPORATED THE FOLLOWING CONTROL POINTS:

STATION	(REFERENCE)	
L13	CITY OF TUCSON CP	
L15	CITY OF TUCSON CP	
L17	CITY OF TUCSON CP	
N11	CITY OF TUCSON CP	
N13	CITY OF TUCSON CP	
N17	CITY OF TUCSON CP	*CENTRAL POINT
N19	CITY OF TUCSON CP	
N22	CITY OF TUCSON CP	
N23	CITY OF TUCSON CP	
NN32	CITY OF TUCSON CP	
P15	CITY OF TUCSON CP	
P17	CITY OF TUCSON CP	
P19	CITY OF TUCSON CP	
P21	CITY OF TUCSON CP	

SURFACE COORDINATES AND/OR DISTANCES WERE COMPUTED FROM THE ACS 83 COORDINATES BY APPLYING A PROJECT SPECIFIC GRID TO SURFACE COMBINED ELEVATION AND SCALE FACTOR (CF) OF 1.0000889929 FROM A CENTRAL POINT (N17):

N/P LOC = (N/P ACS83 – N/CP ACS83) * CF + N/CP ACS83/ (K)/
E/P LOC = (E/P ACS83 – E/CP ACS83) * CF + E/CP ACS83/ – (K)//WHERE N/P LOC/ =/
LOCAL NORTH N/P ACS83/ = ACS 83 NORTH N/CP ACS83/ = ACS 83 AT CENTRAL POINT
E/P LOC/ =/ LOCAL EAST E/P ACS83/ = ACS 83 EAST E/CP ACS83/ = ACS 83 AT CENTRAL POINT

N/CP ACS83= 440620.75 (ACS83)
E/CP ACS83= 1048554.23 (ACS83)
COMBINED FACTOR (CF) = 1.0000889929
CONSTANT (K) = N 0.000, E 0.000

BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE SOUTH LINE OF THE SOUTHWEST ONE–QUARTER OF SECTION 14, TOWNSHIP 14 SOUTH, RANGE 15 EAST OF THE G&SRM, PIMA COUNTY, ARIZONA, BEING MONUMENTED BY A 2" BRASS CAP STAMPED "RLS 23956" IN HANDHOLE AT THE SOUTHWEST CORNER OF SAID SECTION 14 AND A 2" BRASS CAP STAMPED "LS 25086" IN CONCRETE AT THE SOUTH ONE–QUARTER CORNER OF SAID SECTION 14, HAVING A BEARING OF N 89°22'57" EAST AND A DISTANCE OF 2629.81 FEET.

2. VERTICAL CONTROL:
THE VERTICAL DATUM FOR THIS PROJECT IS THE NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88). THE BENCH MARKS INCORPORATED IN THIS SURVEY ARE:

STATION	REFERENCE	ELEVATION	
L13	CITY OF TUCSON CP	2680.69	
L15	CITY OF TUCSON CP	2712.09	
L17	CITY OF TUCSON CP	2746.46	
N11	CITY OF TUCSON CP	2649.62	
N13	CITY OF TUCSON CP	2694.14	
N17	CITY OF TUCSON CP	2771.72	*BASIS OF ELEVATION
N19	CITY OF TUCSON CP	2805.34	
N22	CITY OF TUCSON CP	2845.70	
P15	CITY OF TUCSON CP	2725.84	
P17	CITY OF TUCSON CP	2788.44	
P19	CITY OF TUCSON CP	2837.21	
P21	CITY OF TUCSON CP	2861.41	

NOTE: ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE DERIVED FROM GPS ELLIPSOID HEIGHT MEASUREMENTS AND THE APPLICATION OF A HIGH–RESOLUTION HYBRID GEOID MODEL, GEOID 18.

3. THIS RIGHT–OF–WAY SURVEY, SECTION CONTROL AND DRAWING ARE BASED ON FIELD SURVEY PERFORMED BY PSOMAS.

4. TITLE REPORTS WERE PROVIDED BY PIONEER TITLE AGENCY INC., DATED AUGUST, 27 2024, PIONEER TITLE AGENCY INC., DATED JULY, 26 2024,

PSOMAS, INC. ASSUMES NO LIABILITY FOR INFORMATION WHICH MAY BE REVEALED BY SAID REPORTS.

5. ALL DOCUMENTS REFERENCED BY THIS SURVEY ARE RECORDED IN THE OFFICE OF THE PIMA COUNTY RECORDER, PIMA COUNTY, ARIZONA, UNLESS OTHERWISE NOTED.

6. ALL BEARINGS/DISTANCES ARE DERIVED FROM FIELD MEASUREMENTS UNLESS OTHERWISE NOTED. SEE LEGEND.

7. THIS SURVEY DEPICTS EXISTING AND PROPOSED RIGHT–OF–WAY CONDITIONS, BUT DOES NOT ADDRESS POSSIBLE BOUNDARY CONFLICTS, ENCROACHMENTS, PRESCRIPTIVE RIGHTS, AND/OR OTHER POSSIBLE BONA FIDE RIGHTS.

8. THE USE OF THE WORD "CERTIFY" OR "CERTIFICATION" BY A LICENSED LAND SURVEYOR IN THE PRACTICE OF LAND SURVEYING OR THE PREPARATION OF MAPS, PLATS, REPORTS, DESCRIPTIONS OR OTHER SURVEYING DOCUMENTS ONLY CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS WHICH ARE THE SUBJECT OF THE CERTIFICATION AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED.

9. ACCORDING TO ARIZONA STATUTES IT IS UNLAWFUL TO KNOWINGLY DISTURB OR DESTROY A SURVEY MONUMENT THAT BEARS THE REGISTRATION NUMBER OF A LAND SURVEYOR OR AN AGENCY'S NAME.

10. THE SUM OF COMPONENT DISTANCES MAY NOT EQUAL THE OVERALL DISTANCE SHOWN DUE TO ROUNDING.

11. ADJOINING PROPERTY INFORMATION PER PIMA COUNTY ASSESSOR'S RECORDS AS OF AUGUST, 2024.

REFERENCES

SUBDIVISIONS

ARROYO RESERVE LOTS 1 - 49	SEQ. 20192210846	RINCON RIDGE (1-30)	BK. 31	PG. 55
COMMERCIAL BUSINESS PARK LOTS 1-3	SEQ. 20173600415	TIFFANY PLACE (1-48)	BK. 35	PG. 10
THE PLACE AT PRESIDIO TRAIL BLOCK 1	SEQ. 20122680359	SUNSET COVE (1-87)	BK. 43	PG. 18
HALCYON ACRES ANNEX NO. 2	BK. 09	PG. 39	22ND STREET AT HARRISON ROAD	BK. 46	PG. 94
ROLLING HILLS NO. 1	BK. 15	PG. 28	RINCON SHADOWS (1-47)	BK. 50	PG. 88
DESERT STEPPES ESTATES (195-470)	BK. 16	PG. 01	SPANISH TRAIL (1-61)	BK. 52	PG. 65
TRETIAK (1, 2)	BK.17	PG. 20	MESQUITE TRAILS (1-88)	BK. 53	PG. 38
ROLLING HILLS TOWNE HOUSE	BK. 17	PG. 52	PONDEROSA SUBDIVISION (1-50)	BK. 53	PG. 59
HERMOSA HIGHLANDS NO. 4 (1-83)	BK. 24	PG. 75	SPRINGFIELD ESTATES (1-17)	BK. 54	PG. 13
DISCOVERY RIDGE (1-137)	BK. 25	PG. 18	STONE RIDGE II (1-40)	BK. 56	PG. 47
RANCHO DEL ESTE (1-128)	BK. 25	PG. 98	HARRISON TERRACE (1-74)	BK. 56	PG. 66
VILLAGE GREEN (114-186)	BK. 26	PG. 45	DOS TIBURONES RCP (1-23)	BK. 60	PG. 02
OAK PARK TWNHSS (1-40)	BK. 31	PG. 10	DOS TIBURONES TOWNHOMES	BK. 60	PG. 10
MISSION OAKS (1-90)	BK. 31	PG. 50	OLD SPANISH TRAIL MARKETPLACE (1-5)	BK. 61	PG. 53
			RED COLT RANCH (LOTS 1-21)	BK. 63	PG. 66
			CAMINO SECO VILLAGE (1-35)	BK. 63	PG. 75

CITY OF TUCSON MAPS AND RECORDS & PIMA COUNTY RECORDS

R-76-004	RS-20-090
R-88-015	RS-23-054
R-90-003	RS-25-081
R-2002-001	RS-35-084
R-2014-001	RS-51-001
RS-06-060	RS-62-059
RS-09-045	RS-62-029
RS-10-010	S-83-006
RS-11-011	S-2002-018
RS-12-043	S-2004-002
RS-14-009	S-2004-003
RS-18-076	

ROAD MAP PROCEEDINGS

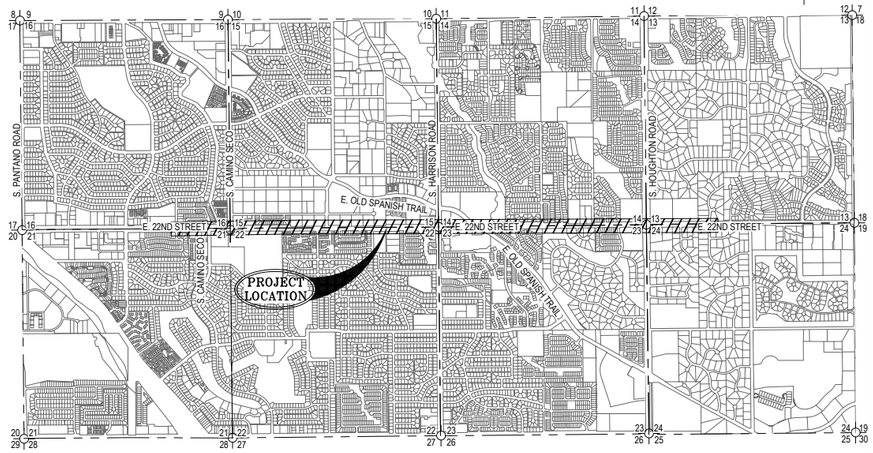
ROAD PROCEEDING NO. 192
ROAD PROCEEDING NO. 207
ROAD PROCEEDING NO. 233
ROAD PROCEEDING NO. 621
ROAD PROCEEDING NO. 829
ROAD PROCEEDING NO. 1104
ROAD PROCEEDING NO. 1105
ROAD PROCEEDING NO. 486

RIGHT OF WAY ROAD ACQUISITIONS

GALELA PETERSON BLANC	DKT. 4170	PG. 480
STEWART TITLE AND TRUST OF TUCSON	DKT. 8329	PG. 423
ARIZONA LAND TITLE AND TRUST COMPANY	DKT. 3320	PG. 734
AS TRUSTEE UNDER TRUST NO. 5108-T	DKT. 3320	PG. 738
ARIZONA LAND TITLE AND TRUST COMPANY	DKT. 3320	PG. 740
AS TRUSTEE UNDER TRUST NO. 5108-T	DKT. 3320	PG. 742
ARIZONA LAND TITLE AND TRUST COMPANY	DKT. 3320	PG. 744
AS TRUSTEE UNDER TRUST NO. 5108-T	DKT. 3320	PG. 746
ARIZONA LAND TITLE AND TRUST COMPANY		
AS TRUSTEE UNDER TRUST NO. 5108-T		
ARIZONA LAND TITLE AND TRUST COMPANY		
AS TRUSTEE UNDER TRUST NO. 5108-T		
ARIZONA LAND TITLE AND TRUST COMPANY		
AS TRUSTEE UNDER TRUST NO. 5108-T		
CONTRACT OF SALE BUYER, CUSTOM FLEX DESIGNS INCORPORATED	DKT. 4170	PG. 474
TOBIN HOMES	DKT.6774	PG. 798
SHELTON	DKT. 988	PG. 410
HOLBROOK	DKT. 988	PG. 411
GOLLOB	DKT. 988	PG. 412
EGBERT	DKT. 988	PG. 413
NOLEN	DKT. 988	PG. 414
TEVIS	DKT. 988	PG. 415
MISTO	DKT. 988	PG. 416
EPPINGER	DKT. 988	PG. 417
ARIZONA LAND TITLE AND TRUST COMPANY, AS TRUSTEE UNDER TRUST #5401-T	DKT. 1529	PG. 409
STARR	DKT. 2265	PG. 396
CATALINA BATIST ASS'N BY ROY C. MATHEWS	DKT. 2265	PG. 400
WAGGENER	DKT. 2265	PG. 401
NOLEN	DKT. 2265	PG. 402
ROLLING HILLS ASSOCIATES, AN ARIZONA GENERAL PARTNERSHIP	DKT. 6652	PG. 578
CHIRCO	DKT. 7208	PG. 1481
CHIRCO	DKT. 7208	PG. 1497
PEYTON	DKT. 150	PG. 103
BUDURIN	DKT. 1952	PG. 466
STEWART TITLE & TRUST COMPANY OF TUCSON, AN ARIZONA CORP AS TRUSTEE UNDER TRUST NO. 0231	DKT. 2223	PG. 440
TRANSAMERICA TITLE INS CO OF AZ, AN ARIZONA CORP, AS TRUSTEE UNDER TRUST NO. 6431 AND NOT OTHERWISE	DKT. 4364	PG. 596

LOCATION MAP — SCALE: 3"=1 MILE

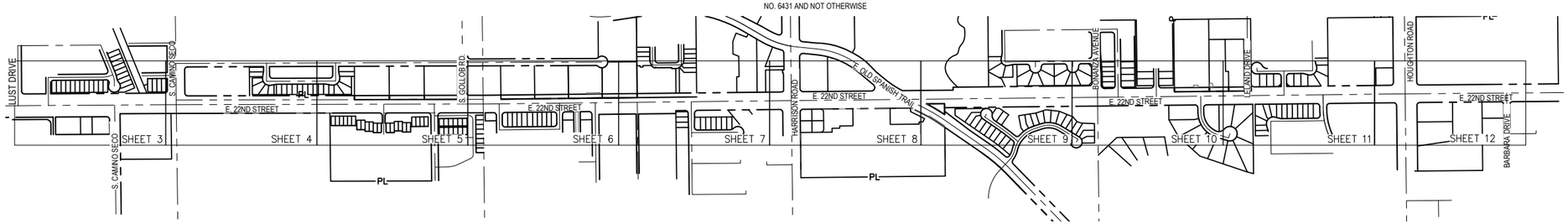
A PORTION OF SECTIONS 13, 14, 15, 16, 21, 22, 23, 24 TOWNSHIP 14 SOUTH, RANGE 15 EAST
GILA AND SALT RIVER MERIDIAN, PIMA COUNTY, ARIZONA



LEGEND & ABBREVIATIONS

- FOUND MONUMENT, SEE MONUMENT TABLE FOR DESCRIPTION
- CALCULATED POSITION, PROPOSED RIGHT-OF-WAY
- CALCULATED POSITION
- CITY OF TUCSON BENCH MARK
- SECTION CORNER
- RIGHT-OF-WAY LINE
- SECTION LINE
- OLD RIGHT-OF-WAY LINE
- ROAD CENTERLINE
- CONSTRUCTION CENTERLINE
- EASEMENT
- PROPERTY LINE
- PL
- NEW RIGHT-OF-WAY (RW)
- DRAINAGE EASEMENT (DE)
- TEMPORARY CONSTRUCTION EASEMENT (TCE)
- KEYNOTE (# / #) — PARCEL / SHEET

4R	1/2" STEEL REBAR	MNL	MAG NAIL
5R	5/8" STEEL REBAR	MP/M&P	MAPS & PLATS
AC	ALUMINUM CAP	NA	MONUMENT NOT ACCEPTED FOR THIS SURVEY
AD	ALUMINUM DISK IN CONCRETE	OUE	OVERHEAD UTILITY EASEMENT
ADOT	ARIZONA DEPT. OF TRANSPORTATION	PC	POINT OF CURVATURE
ASLD	ARIZONA STATE LAND DEPARTMENT	PT	POINT OF TANGENCY
BCSM	BRASS CAP SURVEY MONUMENT	PUE	PUBLIC UTILITY EASEMENT
BD	BRASS DISK	PCDOT	PIMA COUNTY DEPT. OF TRANSPORTATION
BK.	BOOK	PCHD	PIMA COUNTY HIGHWAY DEPT.
BLDG	BUILDING	PE	PROFESSIONAL ENGINEER
BLM	BUREAU OF LAND MANAGEMENT	PG.	PAGE
(C)	CALCULATED (SEE NOTE 3)	PVMT.	PAVEMENT
CA	COMBINED AREA	(R)	RECORD MEASUREMENT AS DESCRIBED
CB	CATCH BASIN	RLS	REGISTERED LAND SURVEYOR
COMM.	COMMUNICATIONS	RM	ROAD MAP
CONC.	CONCRETE	ROS	RECORD OF SURVEY
COT FB	CITY OF TUCSON FIELD BOOK	RS	RECORD OF SURVEY
CP	CONTROL POINT	RW	RIGHT-OF-WAY
CTY	COUNTY	R/W	RIGHT-OF-WAY
DE	DRAINAGE EASEMENT	SE	SLOPE EASEMENT
DKT.	DOCKET	SEQ.	SEQUENCE NUMBER (PIMA COUNTY RECORDER)
EL	ELEVATION	SL	SECTION LINE
ESMT.	EASEMENT	SL	STREET LIGHT
GLO	GENERAL LAND OFFICE	ST	1-1/2" STEEL TAG
HH	HANDHOLE	TCE	TEMPORARY CONSTRUCTION EASEMENT
HSE	HOUSE	UE	UTILITY EASEMENT
I/E	INGRESS-EGRESS	LS	LAND SURVEYOR
LC	LEAD CAP		



SURVEYOR'S CERTIFICATION

I CERTIFY THAT THE PREPARATION OF THIS MAP WAS PERFORMED UNDER MY DIRECT SUPERVISION.

RICHARD I IMAN, R.L.S.
ARIZONA REGISTERED LAND SURVEYOR NO. 68764

SHEET INDEX

RW1.....GENERAL NOTES, SURVEY REFERENCES, LEGEND, LOCATION MAP AND SHEET LAYOUT
RW2.....SECTION CONTROL AND RIGHT-OF-WAY CENTERLINE LAYOUT
RW3-RW12.....PLAN SHEETS
RW13-RW14.....PARCEL TABLES
RW15-RW18.....POINT TABLES
RW19-RW20.....PROPOSED RIGHT OF WAY POINT TABLES & DETAILS

SCALE: 1" = 500'
0 500 1000

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www.psomas.com

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

CITY OF TUCSON

RIGHT–OF–WAY SURVEY FOR
22ND STREET
CAMINO SECO TO HOUGHTON ROAD

RW01 OF RW14

Approvals	Signatory	Date
DESIGN SECTION/PERMITS AND CODES		
TRAFFIC ENGINEERING		
TRANSPORTATION PLANNING		
ENGINEERING LANDSCAPE ARCH		
ENGINEERING ADMINISTRATOR		

Approved _____ 20__
TRANSPORTATION DIRECTOR

PLAN 303 OF 316

DRWN. BY LC 20 24 DSGN. BY RI 20 24 CHKD. BY RI 20 24

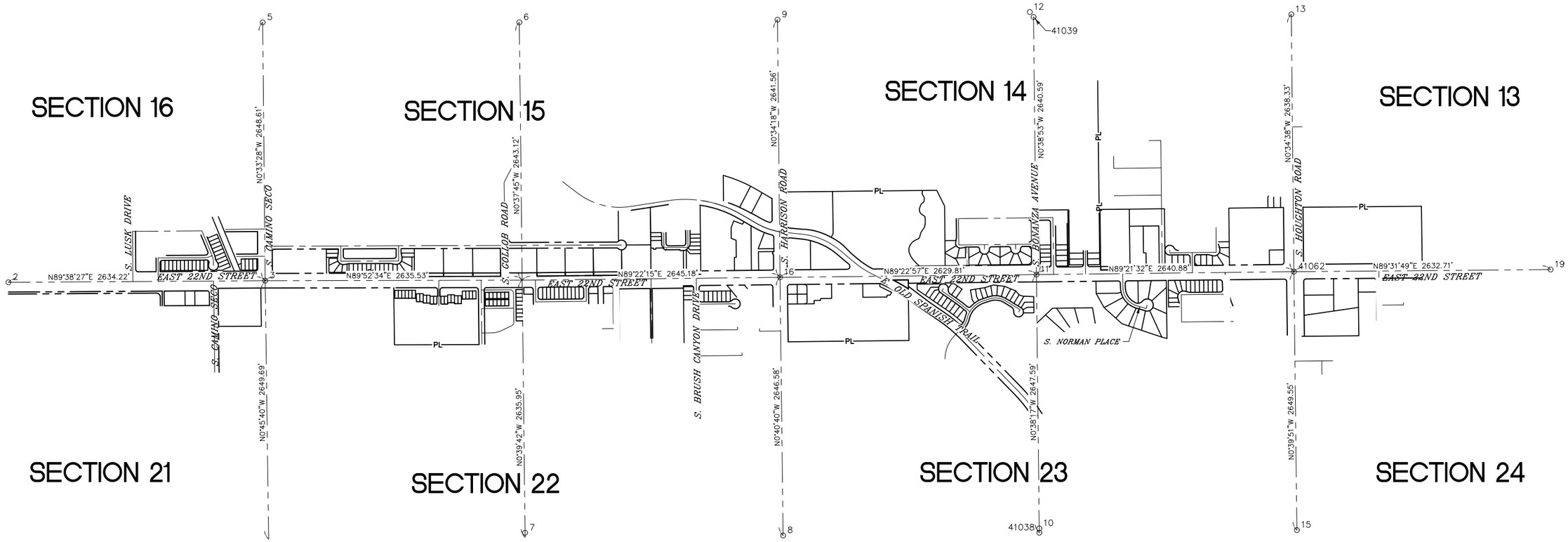
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PLAN NO. I-2025-004

SEQ. NO. _____

SEQ. NO. _____

J:\TUCS\7KH424010\SURVEY\SHEETS\7KH424010-ROW-1-2.dwg COVER Last Saved: Wed, 20 Aug 2025 By: Richard.Iman Plotted: Wednesday, August 20, 2025 3:50:03 PM



POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
2	MON / FND 2IN BCSM IN HH PLS 20373	440569.48	1040639.57
3	MON / FND 2IN BCSM IN HH PLS 20373	440585.99	1043273.74
5	MON / FND 2IN BCSM IN HH 1988 PLS 20373	443234.48	1043247.96
6	MON / FND 2IN BCSM IN CONC RLS 58199	443234.65	1045880.24
7	MON / FND 2IN BCSM IN CONC 2368	438001.51	1045939.05
8	MON / FND 2.5IN BCSM IN HH COT RLS 23956	437974.34	1048585.58
9	MON / FND 2IN BCSM IN HH COT RLS 23956	443262.17	1048527.92
10	MON / FND 2IN BCSM IN CONC PE 6377	438046.67	1051212.91
11	MON / FND 2IN BCSM IN CONC LS 25086	440649.08	1051183.94
12	MON / FND 2IN WASHER COT RLS 23956 GPS FL20	443340.68	1051115.24

POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
13	MON / FND 5R W TAG RLS 30352	443316.82	1053798.07
15	MON / FND 2IN BCSM IN HH RLS 19318	438029.26	1053855.36
16	MON / FND 2IN BCSM IN HH RLS 23956	440620.74	1048554.28
19	MON / FND 2IN BCSM IN CONC COT RLS 13019	440700.22	1056457.27
41038	MON / FND 2IN LCP ON PIPE LS 4785	438001.65	1051213.43
41039	MON / FND 2IN BCSM PLS 22245	443289.50	1051154.07
41062	MON / FND 2IN BCSM IN HH COT RLS 30352	440678.63	1053824.65

SCALE: 1" = 500'
0 500 1000

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(520) 292-2300 (520) 292-1290 fax
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RIGHT OF WAY PLAN SHEET

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

RIGHT-OF-WAY SURVEY FOR
22ND STREET
CAMINO SECO TO HOUGHTON ROAD

RW02 OF RW14

CITY OF TUCSON

DRWN. BY LC 12/2024
DSGN. BY LC 12/2024
CHKD. BY RI 12/2024
Record Document Dated: __ / __ / __

REF. _____ SCALE: _____

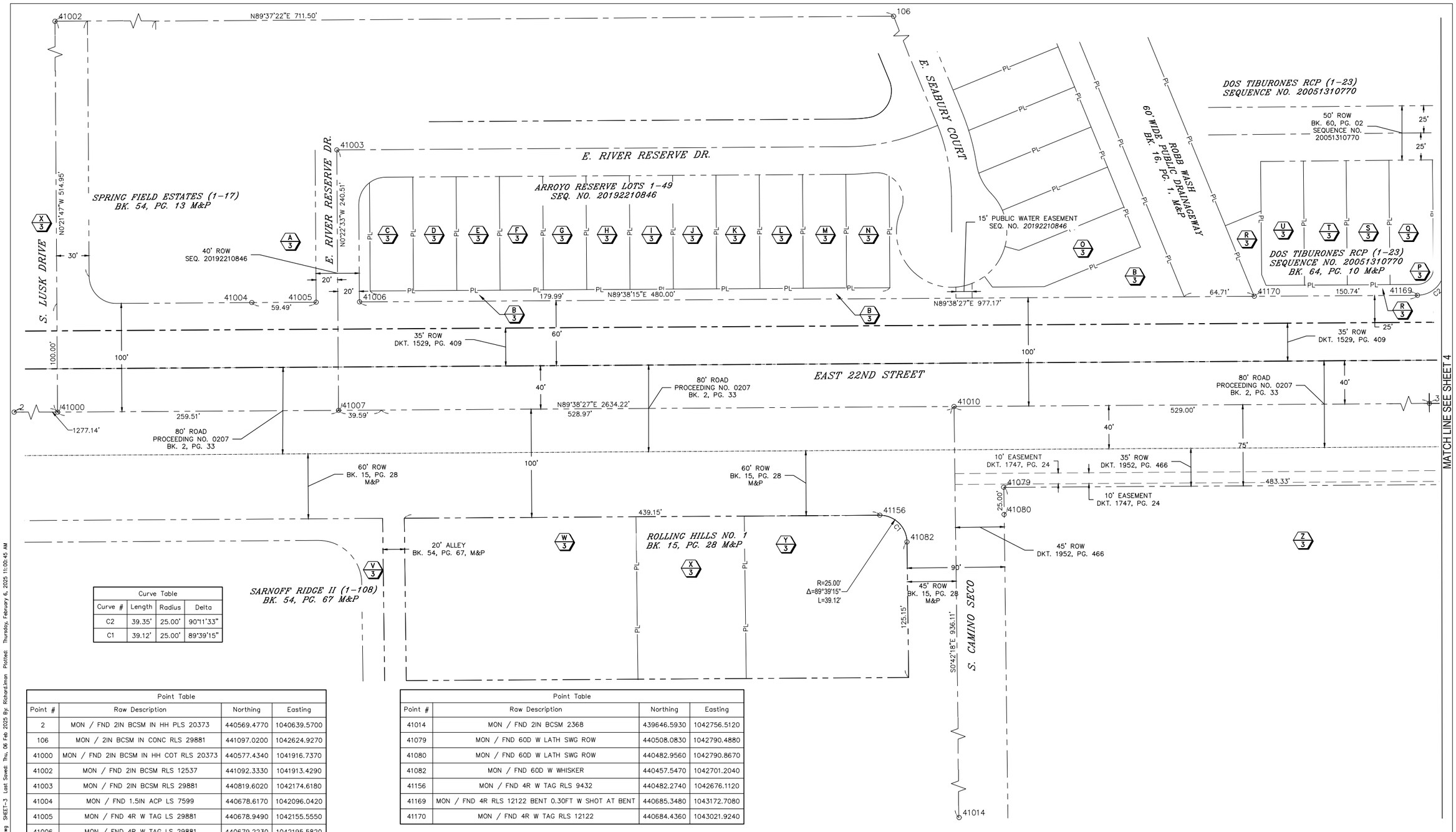
PLAN NO. I-2025-004

304 OF 316

SEQ. NO. _____

SEQ. NO. _____

T:\PKH\240101\SURVEY\SHEETS\PKH240101-ROW-I-2.dwg 2-SECTIONS Last Saved: Thu, 06 Feb 2025 By: Richard.Iman Plotted: Thursday, February 6, 2025 10:58:15 AM



Curve Table			
Curve #	Length	Radius	Delta
C2	39.35'	25.00'	90°11'33"
C1	39.12'	25.00'	89°39'15"

Point Table			
Point #	Raw Description	Northing	Easting
2	MON / FND 2IN BCSM IN HH PLS 20373	440569.4770	1040639.5700
106	MON / 2IN BCSM IN CONC RLS 29881	441097.0200	1042624.9270
41000	MON / FND 2IN BCSM IN HH COT RLS 20373	440577.4340	1041916.7370
41002	MON / FND 2IN BCSM RLS 12537	441092.3330	1041913.4290
41003	MON / FND 2IN BCSM RLS 29881	440819.6020	1042174.6180
41004	MON / FND 1.5IN ACP LS 7599	440678.6170	1042096.0420
41005	MON / FND 4R W TAG LS 29881	440678.9490	1042155.5550
41006	MON / FND 4R W TAG LS 29881	440679.2230	1042195.5820
41007	MON / FND 2IN BCSM RLS 29881	440579.0930	1042176.1790
41010	MON / FND 2IN BCSM IN HH RLS 20373	440582.6650	1042744.6500

Point Table			
Point #	Raw Description	Northing	Easting
41014	MON / FND 2IN BCSM 2368	439646.5930	1042756.5120
41079	MON / FND 60D W LATH SWG ROW	440508.0830	1042790.4880
41080	MON / FND 60D W LATH SWG ROW	440482.9560	1042790.8670
41082	MON / FND 60D W WHISKER	440457.5470	1042701.2040
41156	MON / FND 4R W TAG RLS 9432	440482.2740	1042676.1120
41169	MON / FND 4R RLS 12122 BENT 0.30FT W SHOT AT BENT	440685.3480	1043172.7080
41170	MON / FND 4R W TAG RLS 12122	440684.4360	1043021.9240

SCALE: 1" = 40'
0 40 80

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RIGHT OF WAY PLAN SHEET

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

RIGHT-OF-WAY SURVEY FOR
22ND STREET
CAMINO SECO TO HOUGHTON ROAD

RW03 OF RW14

CITY OF TUCSON

DRWN. BY LC 09/2024 REF. _____ SCALE: _____

DSGN. BY LC 09/2024 _____ _____

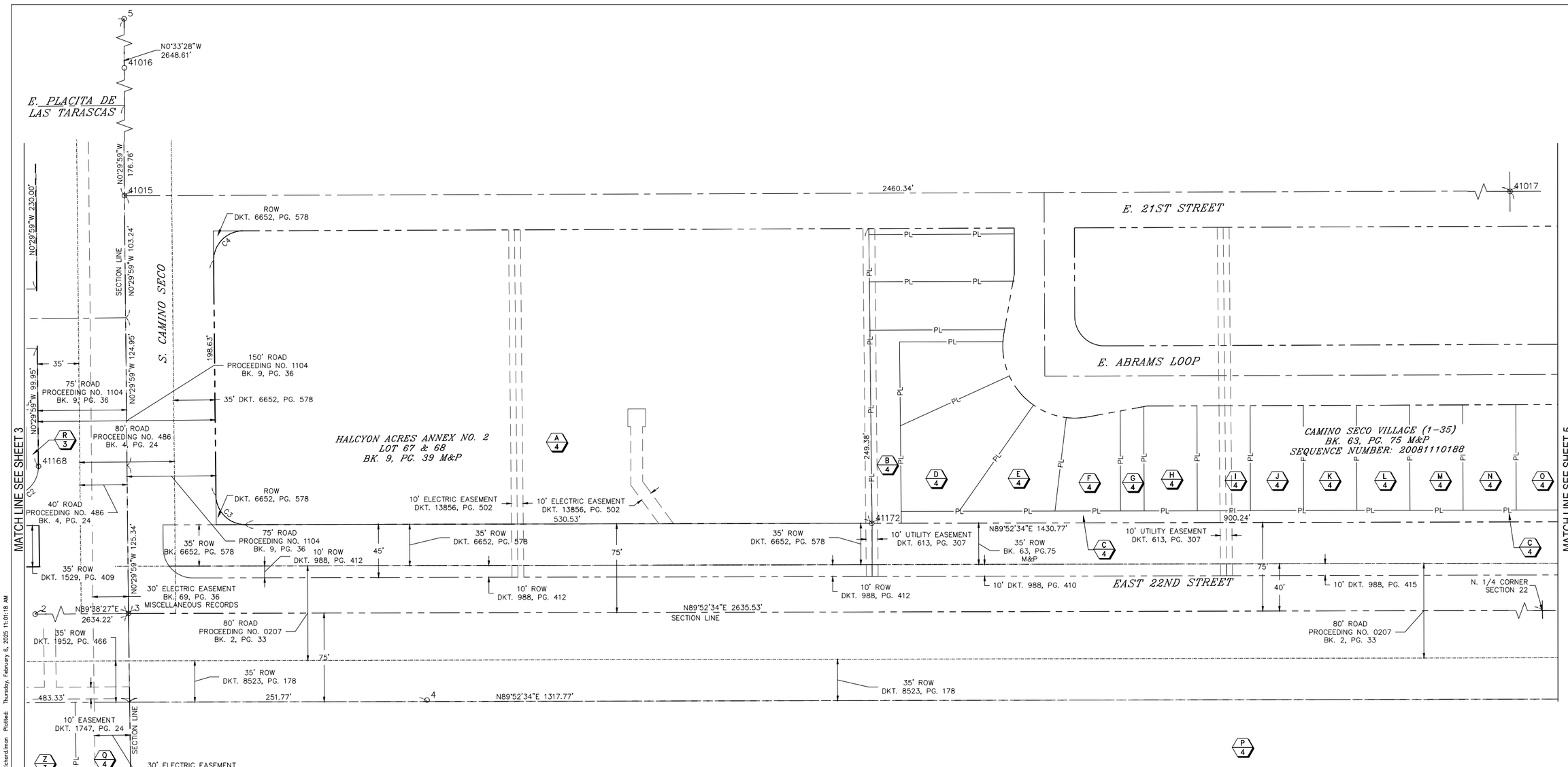
Record Document Dated: __ / __ / __

CHKD. BY RI, DB 09/2024 PLAN NO. I-2025-004

305 OF 316

SEQ. NO. _____

T:\7KHA240101\SURVEY\SHEETS\7KHA240101-ROW-3-7.dwg SHEET-3 Last Saved: Thu, 06 Feb 2025 By: Richard.Iman Plotted: Thursday, February 6, 2025 11:00:45 AM



Point Table			
Point #	Raw Description	Northing	Easting
3	MON / FND 2IN BCSM IN HH PLS 20373	440585.9930	1043273.7350
4	MON / FND 1/2 STEEL PIN IN HH	440512.7690	1043526.4980
5	MON / FND 2IN BCSM IN HH 1988 PLS 20373	443234.4760	1043247.9570
41015	MON / FND 2IN BCSM PLS 20373	440939.5220	1043270.2800
41016	MON / FND 2IN BCSM PLS 20373	441435.8390	1043265.4520
41163	MON / FND 4R FLAG NO TAG	441265.5460	1043192.1880
41168	MON / FND 4R RLS 12122 BENT 0.60FT S SHOT AT BENT	440710.5340	1043197.5460
41172	MON / FND 4R W TAH RLS 26932	440662.2510	1043903.0120

Curve Table			
Curve #	Length	Radius	Delta
C2	39.35'	25.00'	90°11'33"
C3	39.08'	25.00'	89°33'58"
C4	39.42'	25.00'	90°21'12"

SCALE: 1" = 40'
0 40 80

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RIGHT OF WAY PLAN SHEET

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RIGHT-OF-WAY SURVEY FOR
22ND STREET
CAMINO SECO TO HOUGHTON ROAD

RW04 OF RW14

CITY OF TUCSON

DRWN. BY LC 09/2024
DSGN. BY LC 09/2024
CHKD. BY RI, DB 09/2024

REF. _____ SCALE: _____

PLAN NO. I-2025-004

306 OF 316

Record Document
Dated: __ / __ / __

SEQ. NO. _____

I:\PKH\424010\SURVEY\SHEETS\PKH424010-40W-3-7.dwg SHEET 4 Last Saved: Thu, 06 Feb 2025 By: RichardJman PlotNet: Thursday, February 6, 2025 11:01:18 AM

Point Table			
Point #	Raw Description	Northing	Easting
6	MON / FND 2IN BCSM IN CONC RLS 58199	443234.6510	1045880.2350
41011	MON / FND 2IN BCSM PE 7076	440300.7140	1045491.7550
41012	MON / FND 2IN BCSM PE 7076	440049.9920	1045494.5130
41017	MON / FND 2IN BCSM RLS 18219	440948.0960	1045730.6560
41073	MON / FND 2IN BCSM PUNCH ONLY	441594.9140	1045724.4740
41075	MON / FND 2IN BCSM PUNCH ONLY	440490.7370	1045489.6770
41162	MON / FND UNKNOWN SEE PIC	440590.7370	1045488.5860
41174	MON / FND 2IN LCP 71/72	440628.8420	1044803.6380

Curve Table			
Curve #	Length	Radius	Delta
C7	39.03'	25.00'	89°27'01"
C10	39.00'	25.00'	89°23'15"
C5	39.27'	25.00'	90°00'00"
C6	39.27'	25.00'	90°00'00"
C8	39.51'	25.00'	90°32'59"

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 6

SEQ. NO.

41073

41017

2460.34'

E. 21ST STREET

10' UTILITY EASEMENT DKT. 613, PG. 307

HALCYON ACRES ANNEX NO. 2 BK. 9, PG. 39 M&P

CAMINO SECO VILLAGE (1-35) BK. 63, PG. 75 M&P SEQUENCE NUMBER: 20081110188

10' UTILITY EASEMENT DKT. 613, PG. 307

10' UTILITY EASEMENT DKT. 613, PG. 307

60' ROW PROCEEDING NO. 1105 BK. 11, PG. 07

S. COLLOB ROAD

75'

356.87'

30' ROW BK. 09, PG. 39

6' ELECTRIC EASEMENT DKT. 7408, PG. 1289

15' ROW DKT. 2265, PG. 402 PROCEEDING NO. 1105 BK. 11, PG. 7 ROAD MAPS

35' ROW BK. 63, PG. 75 M&P

35' ROW (RW 1) 10,485 SQ. FT.

35' ROW (RW 2) 10,500 SQ. FT.

35' ROW (RW 3) 9,975 SQ. FT.

HALCYON ACRES ANNEX NO. 2 BK. 9, PG. 39 M&P

N0°33'54"W 286.07'

N0°33'54"W 286.49'

41175

41174

35.00'

299.72'

300.01'

285.01'

N89°52'34"E 884.73'

10' ROW DKT. 988, PG. 415

10' ROW DKT. 988, PG. 417

10' ROW DKT. 988, PG. 413

10' ROW DKT. 988, PG. 414

30' ROW BK. 11, PG. 07

80' ROAD PROCEEDING NO. 0207 BK. 2, PG. 33

N89°52'34"E 2635.53' SECTION LINE

41162

41210

E. 22ND STREET

80' ROAD PROCEEDING NO. 0207 BK. 2, PG. 33

80' ROAD PROCEEDING NO. 0207 BK. 2, PG. 33

35' ROW DKT. 8523, PG. 178

35' ROW BK. 31, PG. 50 M&P

35' ROW BK. 31, PG. 50 M&P

35' ROW BK. 31, PG. 50 M&P

35' ROW BK. 31, PG. 10 M&P

N89°52'34"E 365.05'

41179

41181

41184

100.00'

MISSION OAKS (1-90) BK. 31, PG. 50 M&P

136-06-2900 8946 E. CALLE NORLO MISSION OAKS ASSN

24' PRIVATE STREET BK. 31, PG. 50 M&P

N. CALLE DON JUAN (PRIVATE STREET) S0°07'25"E 259.23'

MISSION OAKS (1-90) BK. 31, PG. 50 M&P

MISSION OAKS (1-90) BK. 31, PG. 50 M&P

OAK PARK TWNHSS (1-40) BK. 31, PG. 10 M&P

E. CALLE MARIA (PRIVATE)

41075

60' ROW DKT. 4715, PG. 151

S. OAK PARK DRIVE

S0°40'25"E 655.41'

190.00'

OAK PARK TWNHSS (1-40) BK. 31, PG. 10 M&P

E. CALLE NORLO (PRIVATE)

41011

41012

Point Table			
Point #	Raw Description	Northing	Easting
41175	MON / FND 60D	440664.3010	1044803.3160
41179	MON / FND 60D	440517.0660	1045018.8640
41181	MON / FND 4R FLAG NO TAG	440515.6280	1045434.6710
41184	MON / FND 4R W TAG APM 9432 BENT 0.25FT N SHOT AT BEND	440515.8280	1045544.6130
41210	MON / FND IRON PIN	440591.2850	1045734.1760

SCALE: 1" = 40'

0 40 80

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RIGHT-OF-WAY SURVEY FOR

22ND STREET

CAMINO SECO TO HOUGHTON ROAD

RW05 OF RW14

CITY OF TUCSON

DRWN. BY LC 09/2024 REF. SCALE:

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307 OF 316

SEQ. NO.

T:\PHX\24010\1\SURVEY\SHEETS\PHX24010-ROW-3-7.dwg SHEET 5 Last Saved: Thu, 06 Feb 2025 By: RichardJmon Plotted: Thursday, February 6, 2025 11:01:51 AM

MATCH LINE SEE SHEET 5

MATCH LINE SEE SHEET 7

T:\XHA\240101\SURVEY\SHEETS\XHA240101-ROW-3-7.dwg SHEET 6 Last Saved: Thu, 06 Feb 2025 By: RichardJmon PlotTool: Thursday, February 6, 2025 11:02:30 AM

E. 21ST STREET

S. COLLOB ROAD

EAST 22ND STREET

E. CALLE MARIA

S. ALFIE PLACE (PRIVATE)

S. BROWN AVENUE

HALCYON ACRES ANNEX NO. 2 BK. 9, PG. 39 M&P

OAK PARK TWNHSS (1-40) BK. 31, PG. 10 M&P

HERMOSA HIGHLANDS NO. 4 (1-83) BK. 24, PG. 75 M&P

TRETIAK (1, 2) BK. 17, PG. 20 M&P

41017 1197.63' 41074

10' ELECTRIC EASEMENT DKT. 7365, PG. 848

15' ROW DKT. 2265, PG. 400, PROCEEDING NO. 1105 BK. 11, PG. 7 ROAD MAPS ABANDONED DKT. 7208, PG. 1497

30' ROW BK. 11, PG. 07

356.87'

N0°37'45"W 2643.12'

SECTION LINE

10' UTILITY EASEMENT DKT. 613, PG. 307

35' ROW (RW 4) 10,150 SQ. FT.

35' ROW (RW 5) 10,150 SQ. FT.

35' ROW (RW 6) 10,146 SQ. FT.

35' ROW (RW 7) 10,492 SQ. FT.

N89°52'34"E 120.30'

N89°22'15"E 152.33'

35' DKT. 7208, PG. 1481

41226

10' DKT. 988, PG. 411

290.00'

289.98'

N89°22'15"E 1169.64'

10' DKT. 988, PG. 412

289.87'

10' DKT. 988, PG. 416

299.77'

80' ROAD PROCEEDING NO. 0207 BK. 2, PG. 33

136.78'

41209

N89°22'15"E 2645.18'

SECTION LINE

518.00'

41220

307.00'

41221

360.40'

35' ROW BK. 31, PG. 10 M&P

N89°52'34"E 365.05'

35' ROW BK. 24, PG. 75 M&P

41227

41185

41186

70.81'

16' ALLEY

20.30'

N0°39'32"W 2590.35'

70.02'

50' ROW BK. 24, PG. 75 M&P

S0°39'55"E 224.00'

418.00'

74.02'

74.01'

N0°39'55"W 224.00'

41195

41194

41196

41197

41198

41199

70.98'

75.02'

16' ALLEY BK. 24, PG. 75 M&P

25'

24'

ALLEY

DRAINAGEWAY

136-07-457C CITY OF TUCSON

60' ROW BK. 17, PG. 20

N89°22'15"E 320.41'

60' ROW DKT. 2223, PG. 440

30'

S0°39'55"E 506.20'

41032

178.66'

41033

41034

N89°22'13"E 518.00'

41035

Curve Table			
Curve #	Length	Radius	Delta
C10	39.00'	25.00'	89°23'15"
C9	39.25'	25.00'	89°57'50"
C11	39.29'	25.00'	90°02'10"
C12	39.25'	25.00'	89°57'50"
C13	39.29'	25.00'	90°02'10"
C14	39.25'	25.00'	89°57'50"

Point Table			
Point #	Raw Description	Northing	Easting
6	MON / FND 2IN BCSM IN CONC RLS 58199	443234.6510	1045880.2350
7	MON / FND 2IN BCSM IN CONC 2368	438001.5120	1045939.0460
41017	MON / FND 2IN BCSM RLS 18219	440948.0960	1045730.6560
41032	MON / FND 2IN BCSM PE 1260	440096.0790	1046876.8390
41034	MON / FND 2IN BCSM PE 1260	440369.1580	1046048.6350
41035	MON / FND 2IN BCSM PE 1260	440374.8770	1046566.5940
41074	MON / FND 5R W WIRE NO TAG	440952.4500	1046928.5040
41185	MON / FND 60D	440516.6990	1045909.2490
41186	MON / FND 60D	440517.6190	1046001.5290
41194	MON / FND 4R W TAG PE 1260	440524.4260	1046614.8630

Point Table			
Point #	Raw Description	Northing	Easting
41195	MON / FND 4R WIRE NO TAG	440523.1730	1046592.8510
41196	MON / FND 4R PE 1260	440526.6040	1046816.8920
41197	MON / FND 4R NO TAG 0.80FT DOWN	440501.8610	1046842.1220
41198	MON / FND 4R NO TAG BENT 0.35FT E SHOT AT BEND	440502.5330	1046902.0890
41199	MON / FND 4R NO TAG BENT 0.35FT E SHOT AT BEND	440502.6560	1046902.0250
41209	MON / FND 2IN BCSM DOWN 0.35FT	440593.1350	1046046.0470
41220	MON / FND 2IN BCSM PE 1260	440598.8330	1046563.9920
41221	MON / FND 2IN BCSM PE 1260	440602.2120	1046871.0070
41226	MON / X ON CURB	440640.0130	1045961.5430
41227	MON / CNTR BOLT ON FH	440533.1600	1045996.5380

SCALE: 1" = 40'

0 40 80

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RIGHT-OF-WAY SURVEY FOR 22ND STREET CAMINO SECO TO HOUGHTON ROAD

CITY OF TUCSON

DRWN. BY LC 09/2024

DSGN. BY LC 09/2024

Record Document Dated: __ / __ / __

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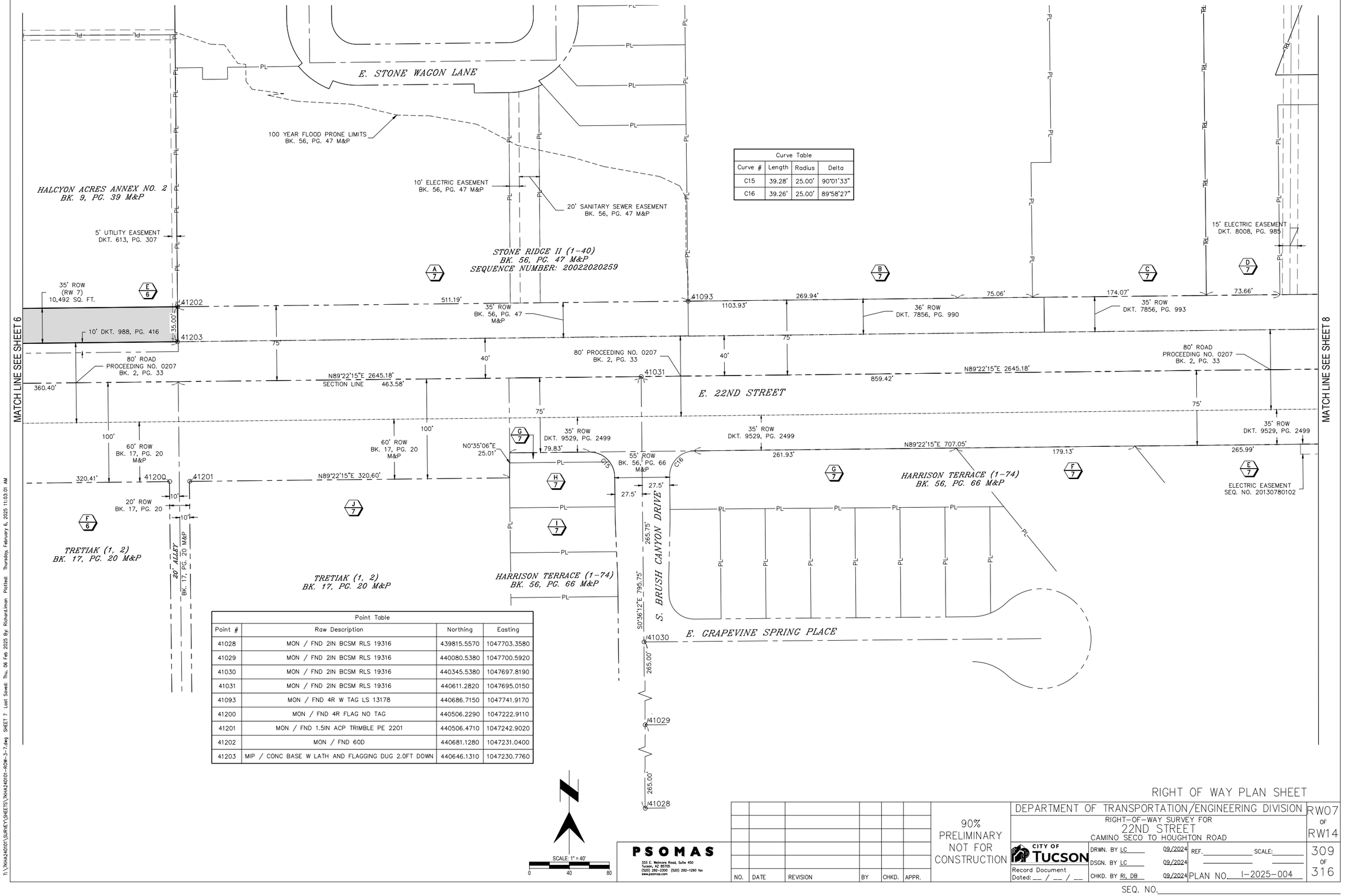
PLAN NO. I-2025-004

RW06 OF RW14

308 OF 316

RIGHT OF WAY PLAN SHEET

SEQ. NO. _____



Curve Table			
Curve #	Length	Radius	Delta
C15	39.28'	25.00'	90°01'33"
C16	39.26'	25.00'	89°58'27"

Point Table			
Point #	Raw Description	Northing	Easting
41028	MON / FND 2IN BCSM RLS 19316	439815.5570	1047703.3580
41029	MON / FND 2IN BCSM RLS 19316	440080.5380	1047700.5920
41030	MON / FND 2IN BCSM RLS 19316	440345.5380	1047697.8190
41031	MON / FND 2IN BCSM RLS 19316	440611.2820	1047695.0150
41093	MON / FND 4R W TAG LS 13178	440686.7150	1047741.9170
41200	MON / FND 4R FLAG NO TAG	440506.2290	1047222.9110
41201	MON / FND 1.5IN ACP TRIMBLE PE 2201	440506.4710	1047242.9020
41202	MON / FND 60D	440681.1280	1047231.0400
41203	MIP / CONC BASE W LATH AND FLAGGING DUG 2.0FT DOWN	440646.1310	1047230.7760

SCALE: 1" = 40'
0 40 80

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
RIGHT-OF-WAY SURVEY FOR
22ND STREET
CAMINO SECO TO HOUGHTON ROAD

RW07 OF RW14

CITY OF TUCSON
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DSGN. BY LC 09/2024
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PLAN NO. I-2025-004

309 OF 316

SEQ. NO. _____

T:\7KH424010\SURVEY\SHEETS\7KH424010-ROW-3-7.dwg SHEET 7 Last Saved: Thu, 06 Feb 2025 By: RichardLinan Plotted: Thursday, February 6, 2025 11:03:01 AM

Curve Table			
Curve #	Length	Radius	Delta
C17	16.29'	25.00'	37°20'15"
C18	47.15'	30.00'	90°02'45"
C19	72.98'	30.00'	139°23'22"
C20	185.98'	904.90'	11°46'32"
C21	15.10'	30.00'	28°50'06"
C22	39.30'	25.00'	90°03'37"
C23	39.25'	25.00'	89°57'05"
C24	11.61'	25.00'	26°36'23"

Line Table		
Line #	Length	Direction
L1	7.13'	N29°57'35"W
L2	7.00'	N00°34'18"W
L3	4.50'	S89°22'04"W
L4	23.00'	N00°34'18"W
L5	13.02'	N89°25'53"E
L6	30.00'	N00°34'24"W

Point Table			
Point #	Raw Description	Northing	Easting
8	MON / FND 2.5IN BCSM IN HH COT RLS 23956	437974.3390	1048585.5820
9	MON / FND 2IN BCSM IN HH COT RLS 23956	443262.1690	1048527.9240
16	MON / FND 2IN BCSM IN HH RLS 23956	440620.7380	1048554.2810
41027	MON / FND 2IN BCSM RLS 19316	440070.4550	1048560.8140
41091	MON / FND 4R NO TAG	440694.6690	1048468.3400
41094	MON / FND PCP GOETZ LS 31020	440726.5830	1048628.1120
41095	MON / FND 60D W WHISKER	440701.0860	1048645.0460
41101	MON / FND 4R REC-LS 17479	440556.7060	1049578.3170
41102	MON / FND 4R REC-LS 17479	440554.7580	1049402.4160
41103	MON / FND CONC NAIL W TAG NO READ	440551.3670	1049082.4640
41104	MON / FND 4R W TAG RLS 31031	440548.4520	1048805.1450
41106	MON / FND 4R W TAG RLS 31031	440521.5110	1048630.3680
41107	MON / FND 4R W TAG RLS 19316	440519.9480	1048480.4260
41108	MON / FND 4R BENT 0.25 WEST SHOT AT BASE NO TAG	440544.6150	1048455.3560
41213	MON / FND STEM	440631.4010	1049544.9340

Point Table			
Point #	Raw Description	Northing	Easting
41230	MON / FND 1.5IN ACP KLEIN 42137	440861.2890	1049134.3370
41250	MON / FND CONC NAIL IN PAVEMENT	440885.0340	1048491.6170
41251	MON / FND CONC NAIL IN PAVEMENT	440884.9030	1048478.6020
41252	MON / FND 60D NAIL	440861.9030	1048483.3440
41253	MON / FND 60D NAIL	440861.5180	1048478.9010
41254	MON / FND 60D NAIL	440854.9230	1048483.4980
41255	MON / FND 60D NAIL	440848.7340	1048487.0470
41256	MON / FND 60D NAIL	440713.3930	1048488.5000
41259	MON / FND PCP LS 31020	440756.1910	1049259.7170
41260	MON / FND PCP LS 31020	440703.1880	1049240.7240
41270	MON / FND 4R W TAG REC-LS17479	440554.2020	1049589.4860
41271	MON / FND 4R W TAG REC-LS17479	440522.5920	1049654.3660

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22ND STREET
CAMINO SECO TO HOUGHTON ROAD

CITY OF TUCSON

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RW08 OF RW14

310 OF 316

SEQ. NO.

SEQ. NO.

T:\PKH\240101\SURVEY\SHEETS\PKH240101-ROW-8-13.dwg SHEET 8 Last Saved: Thu, 06 Feb 2025 By: RichardJimon Plotted: Thursday, February 6, 2025 11:05:23 AM

SEQ. NO.

MATCH LINE SEE SHEET 8

MATCH LINE SEE SHEET 10

SOUTH CHIPPED BARK LANE

PONDEROSA SUBDIVISION (1-50)
BK. 53 PG. 59 M&P

20' ROW DKT. 3320,
PG. 734 & PG. 746
ABANDONDED PER DKT. 10134, PG 405
RESERVING SANITARY SEWER RIGHTS

25' ABANDONED ROW
SEQ. NO. 20022421387

41269

N0°37'31"W
25.00'

40.42'

41267

N89°22'57"E 428.64'

264.59'

41111

864.66'

100' ROW
DKT. 3320, PG. 740

60'

100'

75'

80' ROAD
PROCCEEDING NO. 207
BK. 2, PG. 33
ROAD MAPS

40'

EAST 22ND STREET

N89°22'57"E 2629.81'

1638.85'

40'

ROW
(RW 8)
6,891 SQ. FT.

40'

41100

41099

75'

75'

35' ROW
BK. 52, PG. 65
M&P

35' ROW
BK. 52, PG. 65
M&P

N89°22'57"E 1314.95'

35' ROW
BK. 52, PG. 65
M&P

80' ROW
PROCCEEDING NO. 621
BK. 5, PG. 18
ROAD MAPS

30.01'

S0°39'15"E

SPANISH TRAIL (1-61)
BK. 52 PG. 65 M&P

SPANISH TRAIL (1-61)
BK. 52 PG. 65 M&P

SPANISH TRAIL (1-61)
BK. 52 PG. 65 M&P

50'

40'

40'

L=212.29'
R=1432.40'
Δ=8°29'30"

R=1382.40' Δ=8°29'30" L=204.88'

N52°56'25"W 271.89'

EAST SACRED WIND PLACE

ROW VARIES
BK. 52, PG. 65
M&P

22.5' ROW
BK. 52, PG. 65

41272

EAST OLD SPANISH TRAIL

10' ROW
BK. 46, PG. 94
M&P

10' ROW
BK. 52, PG. 65
M&P

S55°31'09"E 433.33'

50'

S55°31'09"E 433.33'

50'

OLD SPANISH TRAIL MARKETPLACE (1-5)
BK. 61 PC. 53 M&P

SOUTH DESERT VISTA DRIVE

Point Table			
Point #	Raw Description	Northing	Easting
41096	MON / FND 4R FLAG NO TAG	440501.7170	1049870.6150
41099	MON / FND 60D W YELLOW WHISKER	440596.8470	1049871.3550
41100	MON / FND 60D	440593.8480	1049715.1150
41111	MON / FND 1IN PCP RLS 33821	440738.9660	1050248.2350
41269	MON / FND 60D NAIL	440736.1150	1049983.7630
41272	MON / FND PK+TAG NO READ	440419.5560	1049831.2280

SCALE: 1" = 40'
0 40 80

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

RIGHT-OF-WAY SURVEY FOR
22ND STREET
CAMINO SECO TO HOUGHTON ROAD

RW09 OF RW14

CITY OF TUCSON

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DSGN. BY LC 09/2024
CHKD. BY RI, DB 09/2024

REF. _____ SCALE: _____

PLAN NO. I-2025-004

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Record Document
Dated: __ / __ / __

SEQ. NO. _____

T:\PKH\24010\1\SURVEY\SHEETS\PKH240101-ROW-8-13.dwg SHEET 9 Last Saved: Thu, 06 Feb 2025 By: RichardJmon Plotted: Thursday, February 6, 2025 11:05:59 AM

MATCH LINE SEE SHEET 9

MATCH LINE SEE SHEET 11

SEQ. NO.

41039

2058.15'

41040

S89°20'49"W 176.22'

41041

S. RED COLT ROAD

PONDEROSA SUBDIVISION (1-50)
BK. 53 PG. 59 M&P

RED COLT RANCH LOTS 1-21
BK. 63 PG. 66 M&P

SUNSET COVE (1-87)
BK. 43 PG. 18 M&P

41045

S. SUNCOVE DRIVE

SUNSET COVE (1-87)
BK. 43 PG. 18 M&P

10' ELECTRIC EASEMENT
DKT. 11986, PG. 4298

35' ROW
(RW 10)
5,817 SQ. FT.

35' ROW
(RW 9)
10,500 SQ. FT.

Curve Table			
Curve #	Length	Radius	Delta
C26	47.12'	30.00'	89°59'35"
C27	39.28'	25.00'	90°00'58"
C28	39.26'	25.00'	89°59'02"
C29	39.27'	25.00'	89°59'38"
C30	39.27'	25.00'	90°00'22"
C31	39.27'	25.00'	90°00'02"
C32	39.27'	25.00'	89°59'58"

45' ROW
DKT. 3320, PG. 744

25' ROW
DKT. 3320, PG. 740

77'

32' ROW
BK. 63, PG. 66
M&P

51' ROW
BK. 63, PG. 66
M&P

S. BONANZA AVENUE

S. RED COLT ROAD

SECTION LINE

N0°38'53"W 2640.59'

312.44'

94.96'

25.5'

25.5'

21'

42'

21'

N89°21'32"E 231.74'

N89°21'32"E 109.83'

N0°38'06"W 240.00'

41122

41124

41125

41126

35' ROW
BK. 43, PG. 18
M&P

864.66'

60'

100' ROW
DKT. 3320, PG. 740

63.66'

35'
BK. 63, PG. 66
M&P

75'

40'

176.17'

328.20'

ROW DKT. 9486,
PG. 1106

41043

41044

80' ROAD
PROCCEEDING NO. 207
BK. 2, PG. 33
ROAD MAPS

660.14'

N89°21'32"E 2640.88'

380.55'

405.46'

80' ROAD
PROCCEEDING NO. 207
BK. 2, PG. 33
ROAD MAPS

EAST 22ND STREET

75.00'

35' ROW
BK. 52, PG. 65
M&P

35' ROW
BK. 25, PG. 18
M&P

35' ROW
BK. 25, PG. 18
M&P

N89°21'32"E 834.96'

41127

41131

41128

41130

41047

41129

41048

50°38'26"E 100.00'

50' ROW
BK. 25, PG. 18
M&P

30' ELECTRIC EASEMENT
DKT. 69, PG. 69

DISCOVERY RIDGE (1-137)
BK. 25 PG. 18 M&P

DISCOVERY RIDGE (1-137)
BK. 25 PG. 18 M&P

DISCOVERY RIDGE (1-137)
BK. 25 PG. 18 M&P

SPANISH TRAIL (1-61)
BK. 52 PG. 65 M&P

S. NORMANDY PLACE

R=250.00' Δ=72°45'20" L=255.96'

N0°38'17"W 2647.59'

SECTION LINE

1378.01'

41066

1149.19'

10

45.39'

41038

Point Table			
Point #	Raw Description	Northing	Easting
10	MON / FND 2IN BCSM IN CONC PE 6377	438046.6700	1051212.9130
11	MON / FND 2IN BCSM IN CONC LS 25086	440649.0760	1051183.9370
12	MON / FND 2IN WASHER COT RLS 23956 GPS FL20	443340.6790	1051115.2380
41038	MON / FND 2IN LCP ON PIPE LS 4785	438001.6510	1051213.4260
41039	MON / FND 2IN BCSM PLS 22245	443289.5020	1051154.0700
41040	MON / FND 2IN BCSM RLS 17479	441231.5150	1051177.4100
41041	MON / FND 2IN BCSM PLS 22245	441233.5630	1051353.5040
41042	MON / FND 2IN BCSM RLS 17479	440961.5720	1051180.4400
41043	MON / FND 2IN BCSM PLS 22245	440651.0740	1051360.0930
41044	MON / FND 2IN BCSM LS 25286	440654.7100	1051688.3040
41045	MON / FND 2IN BCSM RLS 19833	440894.6880	1051685.6530
41047	MON / FND 2IN BCSM COT RLS 14172	440558.9570	1052070.0280

Point Table			
Point #	Raw Description	Northing	Easting
41048	MON / FND 2IN BCSM COT RLS 14172	440518.9800	1052070.4530
41066	MON / FND 2IN BCSM RLS 19316	439196.2680	1051200.1760
41122	MON / FND 5R BENT 0.35FT W SHOT AT BASE RLS 19833	440729.0970	1051641.3540
41124	MON / FND 5R W TAG RLS 19833	440754.9730	1051708.2120
41125	MON / FND 5R NO TAG	440730.2450	1051733.5210
41126	MON / FND 4R PLS 26932	440731.4040	1051843.3150
41128	MON / FND 4R W TAG RLS 14172	440584.5500	1052119.5850
41129	MON / FND 4R W TAG RLS 14172	440559.2900	1052094.9800
41130	MON / FND 4R W TAG RLS 14172	440558.6590	1052044.9490
41131	MON / FND 4R NO TAG	440583.4010	1052019.7330

SCALE: 1" = 40'

0 40 80

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CAMINO SECO TO HOUGHTON ROAD

CITY OF TUCSON

DRWN. BY LC 09/2024 REF. SCALE:

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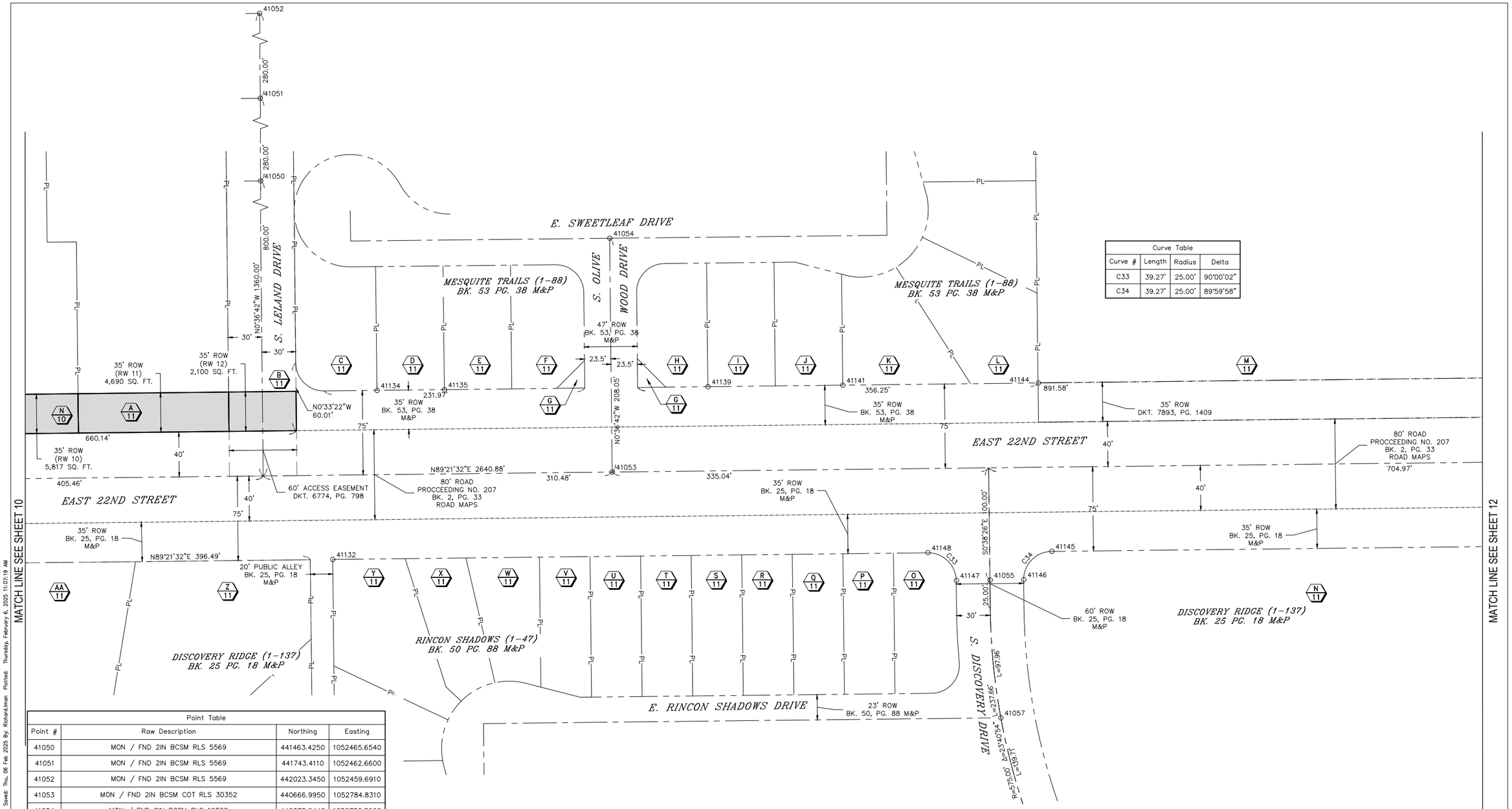
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RW10 OF RW14

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SEQ. NO.

T:\PW\424010\1\SURVEY\SHEETS\PW424010-ROW-8-13.dwg SHEET 10 Last Saved: Thu, 06 Feb 2025 By: RichardJmon Plotted: Thursday, February 6, 2025 11:06:48 AM



Curve Table			
Curve #	Length	Radius	Delta
C33	39.27'	25.00'	90°00'02"
C34	39.27'	25.00'	89°59'58"

Point Table			
Point #	Raw Description	Northing	Easting
41050	MON / FND 2IN BCSM RLS 5569	441463.4250	1052465.6540
41051	MON / FND 2IN BCSM RLS 5569	441743.4110	1052462.6600
41052	MON / FND 2IN BCSM RLS 5569	442023.3450	1052459.6910
41053	MON / FND 2IN BCSM COT RLS 30352	440666.9950	1052784.8310
41054	MON / FND 2IN BCSM RLS 19862	440875.0440	1052782.5960
41055	MON / FND 4R W WHISKERS NO TAG 0.3FT DN IN PVMENT	440570.8480	1053121.0700
41057	MON / FND 2IN BCSM COT RLS 14172	440448.3200	1053130.5680
41132	MON / FND 60D W WHISKERS	440589.1470	1052536.0530
41134	MON / FND 4R BENT 0.2FT S SHOT AT BEND	440739.5620	1052575.5200
41135	MON / FND 4R W TAG RLS 19862	440740.2570	1052635.4890
41139	MON / FND 4R BENT 0.4FT E RLS 19862 SHOT AT BEND	440742.9770	1052869.9920
41141	MON / FND4R NO TAG	440744.2190	1052989.9040
41144	MON / FND 4R NO TAG	440746.2050	1053163.9090
41145	MON / FND 4R W TAG PE 6377	440596.4430	1053175.8840
41146	MON / FND 4R W TAG PE 6377	440571.2140	1053150.9390
41147	MON / FND 4R NO TAG IN RIP RAP	440570.5190	1053090.9970
41148	MON / FND 4R NO TAG IN CONC	440595.2180	1053065.6690

SCALE: 1" = 40'
0 40 80

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22ND STREET
CAMINO SECO TO HOUGHTON ROAD

CITY OF TUCSON
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RW11 OF RW14
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SEQ. NO. _____

I:\PW\424010\SURVEY\SHEETS\PW424010-40W-8-13.dwg SHEET 11 Last Saved: Thu, 06 Feb 2025 By: RichardLimon Plotted: Thursday, February 6, 2025 11:07:19 AM

MATCH LINE SEE SHEET 11

Curve Table			
Curve #	Length	Radius	Delta
C35	39.26'	25.00'	89°58'37"
C36	39.35'	25.00'	90°11'40"
C37	39.27'	25.00'	89°59'56"
C38	39.22'	25.00'	89°53'44"

Point Table			
Point #	Raw Description	Northing	Easting
13	MON / FND 5R W TAG RLS 30352	443316.8220	1053798.0680
14	MON / FND 1.5IN ACP COT GPS FN22	440384.5800	1053816.6360
15	MON / FND 2IN BCSM IN HH RLS 19318	438029.2600	1053855.3590
41060	MON / FND 2IN BCSM RLS 19862	440585.8120	1054696.8160
41062	MON / FND 2IN BCSM IN HH COT RLS 30352	440678.6280	1053824.6470
41063	MON / FND 5R RLS 30352	441467.2310	1053816.7710
41064	MON / FND 2IN BCSM COT RLS 30352	442155.6030	1053809.7950

Point Table			
Point #	Raw Description	Northing	Easting
41065	MON / FND 2IN BCSM COT RLS 30352	442163.6720	1053809.6920
41149	MON / FND 4R NO TAG BENT 0.75FT N SHOT AT BEND	440602.6170	1053725.6290
41151	MON / FND 4R W TAG RLS 12537	440579.4070	1053925.7420
41152	MON / FND 4R W TAG RLS 12537	440604.7080	1053950.5550
41154	MON / FND 4R W TAG RLS 12537	440609.0690	1054483.7180
41155	MON / FND 4R FLAG NO TAG	440610.3860	1054646.6410

SCALE: 1" = 40'

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RW12 OF RW14

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SEQ. NO. _____

SEQ. NO. _____

T:\PKHA240101\SURVEY\SHEETS\PKHA240101-ROW-8-13.dwg SHEET 12 Last Saved: Thu, 06 Feb 2025 By: RichardLimon Plotted: Thursday, February 6, 2025 11:07:54 AM

SHEET	RW3									
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION	SEQUENCE NO.	BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/3	134-08-5680	ARROYO RESERVE HOMEOWNERS ASSOCIATON INC	20230230505			ARROYO RESERVE LOTS 1-49	20192210846			18,983
B/3	134-08-5670	SAGUARO STATION COMMUNITY ASSOCIATION	20192210847			ARROYO RESERVE LOTS 1-49	20192210846			30,327
C/3	134-08-5660	HANNA FAHIMA & ISHAQ ANDRINA & ISHAW MAEKEL &	20203301160			ARROYO RESERVE LOTS 1-49	20192210846			4,177
D/3	134-08-5650	JACOBS ZANE A	20202270593			ARROYO RESERVE LOTS 1-49	20192210846			4,201
E/3	134-08-5640	EPPERSON CAROLYN R	20203301096			ARROYO RESERVE LOTS 1-49	20192210846			4,201
F/3	134-08-5630	HUGHSTON ADAM J & LIEBER ALEX A JT/RS	20203351314			ARROYO RESERVE LOTS 1-49	20192210846			4,201
G/3	134-08-5620	LAKE NATHAN D	20203020612			ARROYO RESERVE LOTS 1-49	20192210846			4,201
H/3	134-08-5610	HUANG YIDING	20201470510			ARROYO RESERVE LOTS 1-49	20192210846			4,201
I/3	134-08-5600	SILVA CARLOS E & ORTIZ SULEMA CP/RS	20201920628			ARROYO RESERVE LOTS 1-49	20192210846			4,201
J/3	134-08-5590	COTA DAVID & VILLAREAL PAOLA CP/RS	20201820471			ARROYO RESERVE LOTS 1-49	20192210846			4,201
K/3	134-08-5580	NELSON IDA M	20193180232			ARROYO RESERVE LOTS 1-49	20192210846			4,201
L/3	134-08-5570	DOUGALL ANDREW & DOUGALL CHRISTOPHER JT/RS	20211550671			ARROYO RESERVE LOTS 1-49	20192210846			4,201
M/3	134-08-5560	TITLE SECURITY AGENCY LLC TR 201665-T	20190440462			ARROYO RESERVE LOTS 1-49	20192210846			4,201
N/3	134-08-5550	TRAN NGHIA Q & LE THANH THI P &	20193190996			ARROYO RESERVE LOTS 1-49	20192210846			4,214
O/3	134-08-5540	SEARCY JANIS D LIVING TR	20232860237			ARROYO RESERVE LOTS 1-49	20192210846			5,220
P/3	134-08-3770	DOS TIBURONES TOWNHOMES CONDOMINIUM ASSN INC	20222770067			DOS TIBURONES TOWNHOMES		64	10	2,529
Q/3	134-08-3590	VASQUEZ CRISTIAN	20241100336			DOS TIBURONES TOWNHOMES		64	10	1,175
R/3	134-08-3260	DOS TIBURONES HOA	20090410416	13506	1131	DOS TIBURONES TOWNHOMES		64	10	22,746
S/3	134-08-3230	REA LEONORE	20082360542	13448	1935	DOS TIBURONES TOWNHOMES		64	10	4,535
T/3	134-08-3220	KOSKI AUSTIN	20061760134	12887	347	DOS TIBURONES TOWNHOMES		64	10	4,529
U/3	134-08-3210	REA LEONORE	20082131041	13425	5092	DOS TIBURONES TOWNHOMES		64	10	4,505
V/3	136-03-2330	SARNOFF RIDGE II HOA	20030620261	12019	1279	SARNOFF RIDGE II (1-108)		54	67	46,581
W/3	136-03-0110	O NEAL ROBIN	95178332	10174	2395	ROLLING HILLS NO. 1		15	28	32,897
X/3	136-03-0120	GARDINER PROPERTIES LLC	20231840275			ROLLING HILLS NO. 1		15	28	15,566
Y/3	136-03-0130	DBNCH CIRCLE LLC	20040630980	12271	5335	ROLLING HILLS NO. 1		15	28	22,750
Z/3	136-01-001D	ST AUGUSTINE CATHOLIC HIGH SCHOOL	20141960588							171,986

SHEET	RW 4									
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION	SEQUENCE NO.	BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/4	134-03-037D	PIMA COUNTY JOINT TECHNOLOGICAL	20130730442	13855	2480	HALCYON ACRES ANNEX NO. 2	20081110188	6	39	114,808
B/4	134-03-1410	TITLE SECURITY AGENCY LLC TR 201434-T	20162720665			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,988
C/4	134-03-1420	TITLE SECURITY AGENCY LLC TR 201434-T	20162720665			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	17,186
D/4	134-03-1090	MIRZA IQBAL & CHRISTINE M CP/RS	20220800537			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	7,014
E/4	134-03-1100	AGTAGMA VICTOR E JR	20180580746			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,745
F/4	134-03-1110	CAMINO SECO VILLAGE HOA	20153140175			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,078
G/4	134-03-1430	TITLE SECURITY AGENCY LLC TR 201434-T	20162720665			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	1,725
H/4	134-03-1120	CAMINO SECO VILLAGE HOA	20153270270			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	3,999
I/4	134-03-1130	ISAGUIRRE ZYRELL C & JOSE CARLO MIGUEL P CP/RS	20211480874			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
J/4	134-03-1140	RECALDE RALPH P WECHITA R CP/RS	20180190261			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
K/4	134-03-1150	ROCHA ALMA JULIA	20241360188			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
L/4	134-03-1160	REED COLLIN JAMES EDWIN	20181200663			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
M/4	134-03-1170	ESTRADA RALPH	20182740335			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
N/4	134-03-1180	BIRDI SULTAN M KHUDAI & HASINA CP/RS	20181620510			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
O/4	134-03-1190	MUNOZ ARTHUR J	20172580480			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
P/4	136-06-002C	ROMAN CATHOLIC CHURCH DIOCESE OF TUCSON	20141960587							1,612,979
Q/4	136-01-001E	ROMAN CATHOLIC CHURCH DIOCESE OF TUCSON	20141960587							19,931

SHEET	RW8									
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION	SEQUENCE NO.	BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/8	133-55-230B	COLE WG TUCSON HARRISON AZ LLC	20102350427	13951	1236					75,788
B/8	133-55-230A	BARCLAY HOLDINGS XVIII-A LLC	20141820095							78,434
C/8	133-55-231B	TARGET CORP	20022421391	11948	7492					632,766
D/8	136-40-6780	ATT-OST MARKETPLACE LLC 61.16% & OST-II	20180800736			OLD SPANISH TRAIL MARKETPLACE (1-5)	20061320471	61	53	32,521
E/8	136-40-6740	ATT-OST MARKETPLACE LLC 61.16% & OST-II	20180800736			OLD SPANISH TRAIL MARKETPLACE (1-5)	20061320471	61	53	438,356
F/8	136-40-6770	ATT-OST MARKETPLACE LLC 61.16% & OST-II	20180800736			OLD SPANISH TRAIL MARKETPLACE (1-5)	20061320471	61	53	42,431
G/8	136-08-7630	GTY-EPP LEASING LLC	20172640326			OLD SPANISH TRAIL MARKETPLACE (1-5)	20061320471	61	53	9,957
H/8	136-08-7650	GTY-EPP LEASING LLC	20172640326			OLD SPANISH TRAIL MARKETPLACE (1-5)	20061320471	61	53	9,831
I/8	136-08-7640	GTY-EPP LEASING LLC	20172640326			OLD SPANISH TRAIL MARKETPLACE (1-5)	20061320471	61	53	9,839
J/8	136-08-7620	GTY-EPP LEASING LLC	20172640326			OLD SPANISH TRAIL MARKETPLACE (1-5)	20061320471	61	53	9,839

SHEET	RW5									
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION		BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/5	134-03-1200	MINK CLAUDIA L & WALTER D CP/RS	20172010573			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
B/5	134-03-1210	SOTTOSANTI JASON M & TERESA M	20170900722			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,005
C/5	134-03-1220	BEACHY KURTIS & CLAUDETTE JT/RS	20213130974			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	3,643
D/5	134-03-1230	HERNANDEZ GABRIEL	20213341379			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	4,767
E/5	134-03-1240	BOONE KELVIN M & JANET K CP/RS	20171950480			CAMINO SECO VILLAGE (1-35)	20081110188	63	75	8,080
F/5	134-03-0410	OLSTAD CARL J & PATRICIA M CP/RS	20060601209	12771	7952	HALCYON ACRES ANNEX NO. 2		9	39	85,176
G/5	134-03-0420	HILL RENEE & BRIAN CP/RS	20182760432			HALCYON ACRES ANNEX NO. 2		9	39	84,771
H/5	134-03-0430	CHIRCO FAMILY LIVING TR		2704	3	HALCYON ACRES ANNEX NO. 2		9	39	77,549
I/5	136-06-1990	OAK PARK TOWNHOUSES HOMEOWNERS		8650	250	OAK PARK TWNHSS (1-40)		31	10	128,100
J/5	136-06-1590	CARLSON SHIELA M & CARLSON SUZANNE M JT/RS		8339	2265	OAK PARK TWNHSS (1-40)		31	10	2,546
K/5	136-06-1600	BOYER LEON & JOAN CP/RS	20161130673			OAK PARK TWNHSS (1-40)		31	10	2,596
L/5	136-06-1610	SCHMIDT MARY A TR	95009844	9964	1522	OAK PARK TWNHSS (1-40)		31	10	2,407
M/5	136-06-1620	SALVO FAMILY TR		8532	452	OAK PARK TWNHSS (1-40)		31	10	2,419
N/5	136-06-1630	SALVO CARMEN F	96171198	10394	1546	OAK PARK TWNHSS (1-40)		31	10	2,468
O/5	136-06-1640	CICALA ARMIN F & VELMA R & CICALA	20213350788			OAK PARK TWNHSS (1-40)		31	10	2,337
P/5	136-06-2900	MISSION OAKS ASSN		6131	1208	MISSION OAKS (1-90)		31	50	234,862
Q/5	136-06-2480	STUCKEY DALE L & KELLI CP/RS	20190100490			MISSION OAKS (1-90)		31	50	2,638
R/5	136-06-2490	MARSHALL PAULA J REVOCABLE TR	92190110	9441	1825	MISSION OAKS (1-90)		31	50	2,807
S/5	136-06-2500	MOTIKA PATRICIA & HARDNOCK JOSEPH III JT/RS	20202650744			MISSION OAKS (1-90)		31	50	2,690
T/5	136-06-2510	STOCKETT MONIQUE	20152960528			MISSION OAKS (1-90)		31	50	2,660
U/5	136-06-2520	DONNELLY BRIAN	20202370655			MISSION OAKS (1-90)		31	50	2,480
V/5	136-06-2530	WESTRA LIVING TR	20051461755	12605	13351	MISSION OAKS (1-90)		31	50	2,626
W/5	136-06-2540	LOFTIS ARTIE MICHAEL	20012280273	11683	1419	MISSION OAKS (1-90)		31	50	2,820
X/5	136-06-2550	JOBE STEPHEN & PAIGE CP/RS	20181450777			MISSION OAKS(1-90)		31	50	2,890
Y/5	136-06-2560	HUIE RYLEY & DILLON SHEILA M JT/RS	20241360699			MISSION OAKS(1-90)		31	50	2,619
Z/5	136-06-2570	HALU CANDACE LYNN & HAMMONDS THOMAS	20240430448			MISSION OAKS (1-90)		31	50	2,689
AA/5	136-06-2000	BIELECKA GABRIELA	20222170124			MISSION OAKS (1-90)		31	50	2,309
BB/5	136-06-2010	LOVE JEFFREY M LIVING TR	20031000255			MISSION OAKS (1-90)		31	50	2,625
CC/5	136-06-2020	PROFITA MARISA	20211201456			MISSION OAKS (1-90)		31	50	2,790
DD/5	136-06-2030	SUSALLA JUDITH C	20183250221			MISSION OAKS (1-90)		31	50	2,953
EE/5	136-06-2040	SMITH GREGORY A & MADELINE CP/RS	20061040168	12815	825	MISSION OAKS (1-90)		31	50	2,834
FF/5	136-06-2050	TURNER RONNESHA & DAILY-ALLEN LASHANDA	20230890565			MISSION OAKS (1-90)		31	50	2,962
GG/5	136-06-2060	BELLO IVONNE MARIA	20221120562			MISSION OAKS (1-90)		31	50	2,622
HH/5	136-06-2070	RUTAN NORMA & PARAS CRYSTAL L JT/RS	20180530102			MISSION OAKS (1-90)		31	50	2,880
II/5	136-06-2080	ROSEN REINA	20220270576			MISSION OAKS (1-90)		31	50	2,431
JJ/5	136-06-2090	MC GEE SHERRIE	20163020803			MISSION OAKS (1-90)		31	50	2,710
KK/5	136-06-2100	SSNEHLS LLC	20171530369			MISSION OAKS 1-90)		31	50	2,907
LL/5	136-06-2110	ROSENBERG BETH	20240600258			MISSION OAKS(1-90)		31	50	2,656

SHEET	RW7									
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION		BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/7	134-05-2360	STONE RIDGE II HOA INC	20041931114	12401	4384	STONE RIDGE II (1-40)		56	47	108,086
B/7	134-05-119H	SMITHS FOOD & DRUG CENTERS INC	20020210338	11727	1020					223,232
C/7	134-05-119P	22ND HARRISON LLC		7814	495					49,633
D/7	134-05-119Q	GIANT INDUSTRIES ARIZONA INC	20152520328							29,534
E/7	136-07-5680	PARLIAMENT PARTNERS LLC	20142300168			HARRISON TERRACE (1-74)		56	66	53,677
F/7	136-07-5650	HARRISON TERRACE COMMUNITY ASSN	20042391004	12447	4272	HARRISON TERRACE (1-74)		56	66	179463
G/7	136-07-5670	HARRISON TERRACE COMMUNITY ASSN	20042391004	12447	4272	HARRISON TERRACE (1-74)		56	66	36,094
H/7	136-07-4910	E & M PROPERTIES LLC	20202450014			HARRISON TERRACE (1-74)		56	66	4,707
I/7	136-07-4920	KLINE JAMES R & SANCHEZ JOAN R CP/RS	20122990533			HARRISON TERRACE (1-74)		56	66	4,743
J/7	136-07-007D	9302 HOPEBRIDGE LLC	20222990326			TRETIAK (1, 2)		17	20	65,277

SHEET	RW12									
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION	SEQUENCE NO.	BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/12	133-39-051D	LITTLE GROUP LLC	20172360204	8828	701					23,163
B/12	133-38-008J	SMITHS FOOD & DRUG CENTERS INC	20180610608							327,684
C/12	133-38-008F	SMITHS FOOD & DRUG CENTERS INC	20180610608							374,739
D/12	136-09-0520	FRANK ELLEN A	20001790462	11383	1194	RINCON RIDGE (1-30)		31	55	35,257
E/12	136-09-0370	BINGHAM VICTORIA R & ROGER D TR	93123195	9592	1614	RINCON RIDGE (1-30)		31	55	27,186
F/12	136-09-2440	STEWART TITLE TR 3749	20182040544			COMMERCIAL BUSINESS PARK LOTS 1-3	20173600415			81,627
G/12	136-09-2420	STEWART TITLE TR 3749	20182040544			COMMERCIAL BUSINESS PARK LOTS 1-4	20173600415			52,046

SEQ. NO.____

RIGHT OF WAY PLAN SHEET

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705
(520) 292-2300 (520) 292-1290 fax
www.psomas.com

NO.	DATE	REVISION	BY	CHKD.	APPR.

90% PRELIMINARY NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

RIGHT-OF-WAY SURVEY FOR
22ND STREET
CAMINO SECO TO HOUGHTON ROAD

CITY OF TUCSON

Record Document
Dated: __ / __ / __

DRWN. BY LC 09/2024
DSGN. BY LC 09/2024
CHKD. BY RI, DB 09/2024

REF.____ SCALE:____
____ ____

PLAN NO. I-2025-004

RW13 OF RW14

315 OF 316

SEQ. NO.____

T:\7KHA240101\SURVEY\SHEETS\7KHA240101-ROW-14-15-PARCEL TBL.dwg SHEET 13 Last Saved: Thu, 06 Feb 2025 By: Richard.Iman Plotted: Thursday, February 6, 2025 11:11:01 AM

SHEET	RW6									
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION		BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/6	134-03-044A	CHIRCO FAMILY LIVING TR		4368	174	HALCYON ACRES ANNEX NO. 2		9	39	77,660
B/6	134-03-0450	CHIRCO JOSEPH MICHAEL LIVING TR	20000480229	11252	579	HALCYON ACRES ANNEX NO. 2		9	39	83,384
C/6	134-03-0460	COLAPRET EDWARD E & MARY JT/RS 1/2 & WILLIAMS		7735	480	HALCYON ACRES ANNEX NO. 2		9	39	83,172
D/6	134-03-070	BARRY PAUL F	20051041151	12563	8260	HALCYON ACRES ANNEX NO. 2		9	39	77,833
E/6	134-03-024A	BELOBRAYDIC WILLIAM P & JACQUELINE M CP/RS	20060010903	12712	4963	HALCYON ACRES ANNEX NO. 2		9	39	204,360
F/6	136-07-006A	IMMANUEL PRESBYTERIAN CHURCH	96150166	10370	3444	TRETIAK (1, 2)		17	20	161,608
G/6	136-07-408A	MENDEZ JOSEPH ANTHONY	20232220078			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	5,344
H/6	136-07-457E	FLECK NICHOLAS & JESSICA CP/RS	20232430711			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	5,344
I/6	136-07-457C	CITY OF TUCSON				HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	24,478
J/6	136-07-409A	HERNANDEZ FREDRICK A & DANY V	20061100924	12821	4010	HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	5,140
K/6	136-07-457G	LOUSTAUNAU MARIA LILIAN MORENO	20242430845			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	5,237
L/6	136-07-490A	WILLIS CLINTON & DEVOUCOUX CATHERINE CP/RS	20233530291			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	6,397
M/6	136-07-489A	DAVIS DEBORAH & TORIN CP/RS	20213330280			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	6,282
N/6	136-07-488A	HITCHCOCK SHARON C	20212910773			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	6,527
O/6	136-07-486B	COLEMAN DAVID	20131120246			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	6,609
P/6	136-07-485A	WILLIAMS LUCILLE M LIVING TR	20141080075			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	8,313
Q/6	136-07-483A	STAHL RODERICK S & CHRISTINA M REVOC TR		7844	44	HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	6,280
R/6	136-07-482A	PRELLWITZ THOMAS & CHRISTINE REVOC LIVING TR	20061981130	12909	5550	HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	6,315
S/6	136-07-481A	MOORE ANTOINE LESLIE	20202460770			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	6,463
T/6	136-07-480A	VALDEZ JUAN PABLO & LOPEZ MICHELLE ALEJANDRA	20201150788			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	6,372
U/6	136-07-479A	CITY OF TUCSON	92051230	9268	968	HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	4,955
V/6	136-07-478A	INSKEEP JOSEPH LYLE & VALDEZ BRANDIE NICOLE JT/RS	20222640243			HERMOSA HIGHLANDS NO. 4 (1-83)		24	75	4,871

SHEET	RW9									
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION	SEQUENCE NO.	BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/9	133-55-231C	CITY OF TUCSON	20022421386	11948	7435					200,524
B/9	133-55-4600	PONDEROSA HOA		11291	587	PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	11,943
C/9	133-55-4630	PONDEROSA HOA		11291	587	PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	13,691
D/9	133-55-4500	BILLS MICHAEL B & TAMARA SUE TR	20010490637	11504	2506	PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	12,727
E/9	133-55-4510	BUSHER DOMINIC P	20011590737	11614	3075	PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	9,657
F/9	133-55-4520	RENTERIA JOSHUA P & JESSICA L CP/RS	20110820597			PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	12,592
G/9	133-55-4550	BARNARD CHRIS A & KRISTI J CP/RS	20142720361			PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	12,650
H/9	133-55-4560	FORMANTES ROBERT & CARRIE CP/RS	20161900743			PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	9,631
I/9	133-55-4640	PONDEROSA HOA		11291	587	PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	4,577
J/9	136-40-203A	SPANISH TRAILS COMMUNITY ASSN	20000980833	11302	3105	SPANISH TRAIL (1-61)		52	65	282,156
K/9	136-40-1620	MOSHER KERRI J	20010890819	11544	3810	SPANISH TRAIL (1-61)		52	65	5,546
L/9	136-40-1610	MONROE STEVEN J	20220750404			SPANISH TRAIL (1-61)		52	65	5,968
M/9	136-40-1600	ELLIOTT YOLANDA B	20222310153			SPANISH TRAIL (1-61)		52	65	6,440
N/9	136-40-1590	CASHIN PATRICK D	20012350232	11690	1182	SPANISH TRAIL (1-61)		52	65	6,244
O/9	136-40-1580	SHINGLER DALLIS A & KELLY A CP/RS	20213021321			SPANISH TRAIL (1-61)		52	65	6,226
P/9	136-40-1570	GORDON DEENA YOFFA	20142730360			SPANISH TRAIL (1-61)		52	65	5,789
Q/9	136-40-1560	YOFFA IRIS G EST OF	20123631066			SPANISH TRAIL (1-61)		52	65	5,274
R/9	136-40-1550	CARROLL WESLEY TREVER & NICOLE MARIE CP/RS	20203380996			SPANISH TRAIL (1-61)		52	65	5,925
S/9	136-40-1540	FALLON ROGER & ANNE K REVOC LIVING TR	20011870846	11642	4715	SPANISH TRAIL (1-61)		52	65	6,930
T/9	136-40-1530	PAYNE DIANE REVOC TR	20010170705			SPANISH TRAIL (1-61)		52	65	6,025
U/9	136-40-1520	BRUMLEY JASON	20123480770			SPANISH TRAIL (1-61)		52	65	6,514
V/9	136-40-1510	ECKLES ROBERT & SMITH GREGG CP/RS	20192100477			SPANISH TRAIL (1-61)		52	65	14,589
W/9	136-40-1500	CASTILLO ZUNITH	20162950852			SPANISH TRAIL (1-61)		52	65	6,633
X/9	136-08-005G	ATT-OST MARKETPLACE LLC 61.16% & OST-II	20180800736							6,875
Y/9	136-08-7600	VILLAGE GREEN HOA		6615	621	VILLAGE GREEN (114-186)		26	45	449,787

SHEET	RW10								
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION	SEQUENCE NO.	BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/10	133-55-4570	JONES RUDY LEE & LOPEZ LINDA J CP/RS	20140870180			PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	12,249
B/10	133-55-4580	SMITH FAMILY LIVING TR	20202690951			PONDEROSA SUBDIVISION (1-50)	20000870239	53	59	8,500
C/10	133-54-2280	HO AMANDA TRUDY	20170890482			RED COLT RANCH (LOTS 1-21)	20080910309	63	66	4,683
D/10	133-54-2290	SIMPSON GEORGE R & MARJORIE A CP/RS	20172850101			RED COLT RANCH (LOTS 1-21)	20080910309	63	66	4,892
E/10	133-54-2300	GIMIGLIANO RIEDEL LIVING TR	20222060057			RED COLT RANCH (LOTS 1-21)	20080910309	63	66	5,000
F/10	133-54-2310	RED COLT RANCH COMMUNITY ASSOC	20181920388			RED COLT RANCH (LOTS 1-21)	20080910309	63	66	5,586
G/10	133-54-2110	TRITZ STEPHEN & SUZANNE CP/RS	20170830121			RED COLT RANCH (LOTS 1-21)	20080910309	63	66	6,445
H/10	133-54-2100	LE HELENA	20212040752			RED COLT RANCH (LOTS 1-21)	20080910309	63	66	6,421
I/10	133-54-2320	RED COLT RANCH COMMUNITY ASSOC	20181920388			RED COLT RANCH (LOTS 1-21)	20080910309	63	66	8,062
J/10	133-54-0880	SUNSET COVE HOME OWNERS ASSN	93117679	9586	1040	SUNSET COVE (1-87)	89112620	43	18	51,383
K/10	133-54-0010	WEBB-PARKER PAMELA K LIVING TR	97144864	10625	1228	SUNSET COVE (1-87)	89112620	43	18	8,361
L/10	133-54-0870	FKH SFR L LP	20222080249			SUNSET COVE (1-87)	89112620	43	18	6,990
M/10	133-39-0420	VACANT LOT LLC	20132600707							185,647
N/10	133-39-043K	10081 E TWENTY SECOND STREET LLC	20222220710							63,672
O/10	136-08-5480	WATSON RICKY L & MARGARET ALICE JT/RS		8027	1168	DISCOVERY RIDGE (1-137)		25	18	26,490
P/10	136-08-5580	FRAME CLARENCE R & PAXON-FRAME SHIRLEY M JT/RS	19990780758	11032	2324	DISCOVERY RIDGE (1-137)		25	18	33,241
Q/10	136-08-686A	CITY OF TUCSON		4959	66	DISCOVERY RIDGE (1-137)		25	18	506,072

SHEET	RW11								
PARCEL	APN	OWNER	SEQUENCE NO.	DOCKET	PAGE	SUBDIVISION		BOOK	PAGE	TOTAL SQ. FT. (+/-)
A/11	133-39-043L	SOUTH LELAND DR LLC	20133400259							68,226
B/11	133-39-043J	10081 E 22ND STREET LLC	20010340787	11489	3778					91,760
C/11	133-54-0930	ROBERTS CARLEEN B	20213000439			MESQUITE TRAILS (1-88)	20000430056	53	38	8,339
D/11	133-54-0920	SELBY JOSEPH S & SELBY PATRICIA FLORES REVOC TR	20020920843	11798	3618	MESQUITE TRAILS (1-88)	20000430056	53	38	6,609
E/11	133-54-0910	FERGUSON JASON & HALIE FAMILY TR	20213340689			MESQUITE TRAILS (1-88)	20000430056	53	38	6,607
F/11	133-54-0900	LEON LUIS & MERCEDES CP/RS	20072060815	13167	3788	MESQUITE TRAILS (1-88)	20000430056	53	38	6,709
G/11	133-54-1780	MESQUITE TRAILS HOA	20030430264	12000	563	MESQUITE TRAILS (1-88)	20000430056	53	38	330,859
H/11	133-54-1510	GAMU PROPERTIES LLC	20163230508			MESQUITE TRAILS (1-88)	20000430056	53	38	6,430
I/11	133-54-1500	SOBON YONGMEI YU & ROBERT A CP/RS	20152990702			MESQUITE TRAILS (1-88)	20000430056	53	38	6,600
J/11	133-54-1490	CUTRIGHT FAMILY LIVING TR	20030170973	11974	5408	MESQUITE TRAILS (1-88)	20000430056	53	38	6,368
K/11	133-54-1480	BULLINGTON MARY ANNE	20030591611	12016	5762	MESQUITE TRAILS (1-88)	20000430056	53	38	8,163
L/11	133-54-1470	AROS MARK T & KARY L CP/RS	20020831485	11789	7873	MESQUITE TRAILS (1-88)	20000430056	53	38	10,014
M/11	133-39-051C	WAA HOUGHTON & 22ND LLC	20142820220							305,196
N/11	136-08-688A	DESERT HERITAGE LTD PARTNERSHIP 1/2 TST CHU FAMILY TR 1/2 ATTN: TZE SHAR TOM CHU & SUSAN ONG TR	19861640052	7805	89	DISCOVERY RIDGE (1-137)		25	18	316,249
O/11	136-08-8580	POPE WILLIAM MICHAEL & LOIS JEAN CP/RS	20120480531			RINCON SHADOWS (1-47)		50	88	7,439
P/11	136-08-8570	RUMNEY ESTHER L LIVING TR	19990191640	10973	6394	RINCON SHADOWS (1-47)		50	88	6,058
Q/11	136-08-8560	KLEIN KYLE RICHARD	20192000324			RINCON SHADOWS (1-47)		50	88	6,033
R/11	136-08-8550	MC EWEN FAMILY LIVING TR	20232000630			RINCON SHADOWS (1-47)		50	88	6,011
S/11	136-08-8540	KIRK JENNIFER C	20140150268			RINCON SHADOWS (1-47)		50	88	5,991
T/11	136-08-8530	GRATKOWSKI TERAHJE & GEYLER RUVE & GRATKOWSKI LEANE ALL JT/RS	20221670661			RINCON SHADOWS (1-47)		50	88	5,973
U/11	136-08-8520	O BRIEN EVANGELINE M &BRIGGS CALYN NICHOLAS JT/RS	20071060110	13067	640	RINCON SHADOWS (1-47)		50	88	5,956
V/11	136-08-8510	GLENN REAL ESTATE EXCHANGE CORP	20241770265			RINCON SHADOWS (1-47)		50	88	5,775
W/11	136-08-8500	ROGERS MARY E	20180540337			RINCON SHADOWS (1-47)		50	88	6,321
X/11	136-08-8490	FERRIS JAMIE K	20182430604			RINCON SHADOWS (1-47)		50	88	6,131
Y/11	136-08-8780	RINCON SHADOWS HOMEOWNERS ASSOC	20001220967	11326	3434	RINCON SHADOWS (1-47)		50	88	21,059
Z/11	136-08-5500	RAGAN RUSTY A	20172440663			DISCOVERY RIDGE (1-137)		25	18	26,911
AA/11	136-08-5490	MIRANDA RAUL M	20160400097			DISCOVERY RIDGE (1-137)		25	18	25,733

SEQ. NO._____

I:\PW\#24010\SURVEY\SHEETS\PW#24010-ROW-14-15-PARCEL TBL.dwg SHEET 14 Last Saved: Thu, 06 Feb 2025 By: RichardLiman Plotted: Thursday, February 6, 2025 11:11:39 AM

RIGHT OF WAY PLAN SHEET

PSOMAS
333 E. Wetmore Road, Suite 450
Tucson, AZ 85705
(520) 292-2300 (520) 292-1290 fax
www.psomas.com

NO.	DATE	REVISION	BY	CHKD.	APPR.

90% PRELIMINARY NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
RIGHT-OF-WAY SURVEY FOR
22ND STREET
CAMINO SECO TO HOUGHTON ROAD

RW14 OF RW14

CITY OF TUCSON
Record Document Dated: __ / __ / __

DRWN. BY LC 09/2024
DSGN. BY LC 09/2024
CHKD. BY RI, DB 09/2024

REF._____ SCALE:_____

PLAN NO. I-2025-004

316 OF 316

SEQ. NO._____