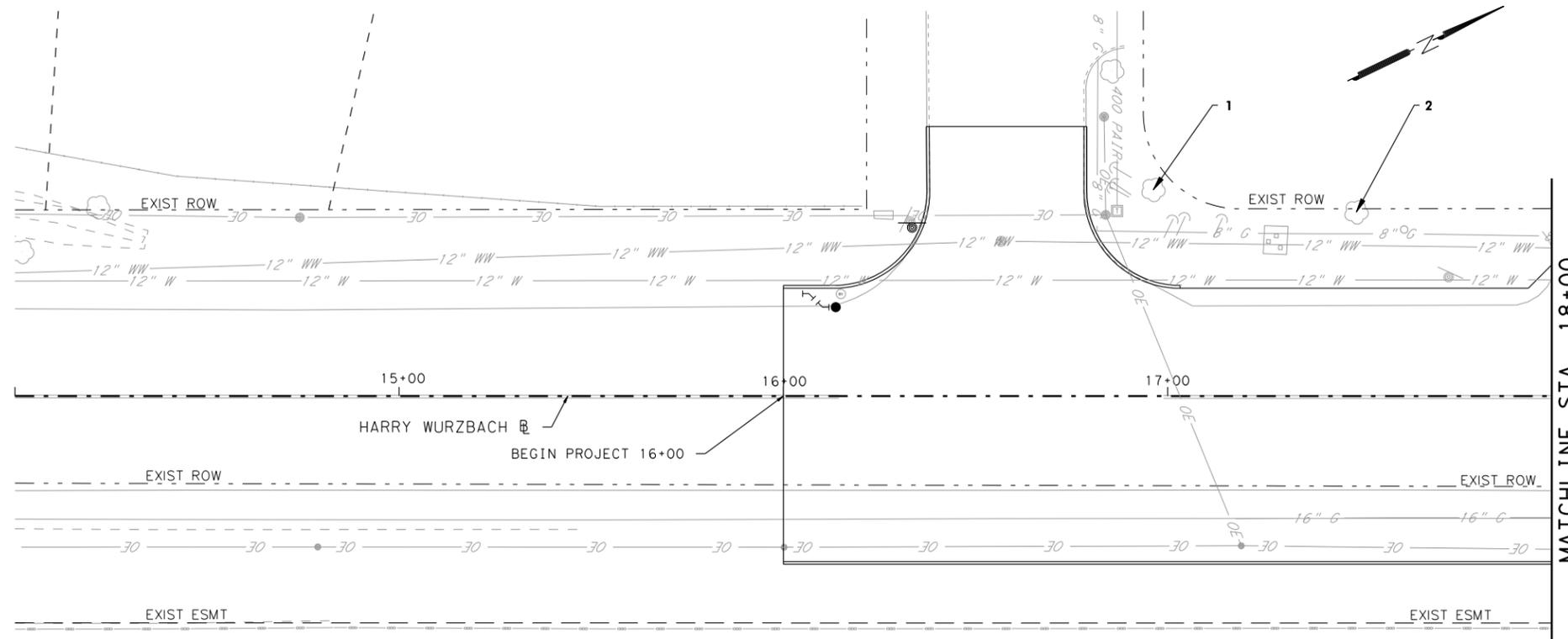
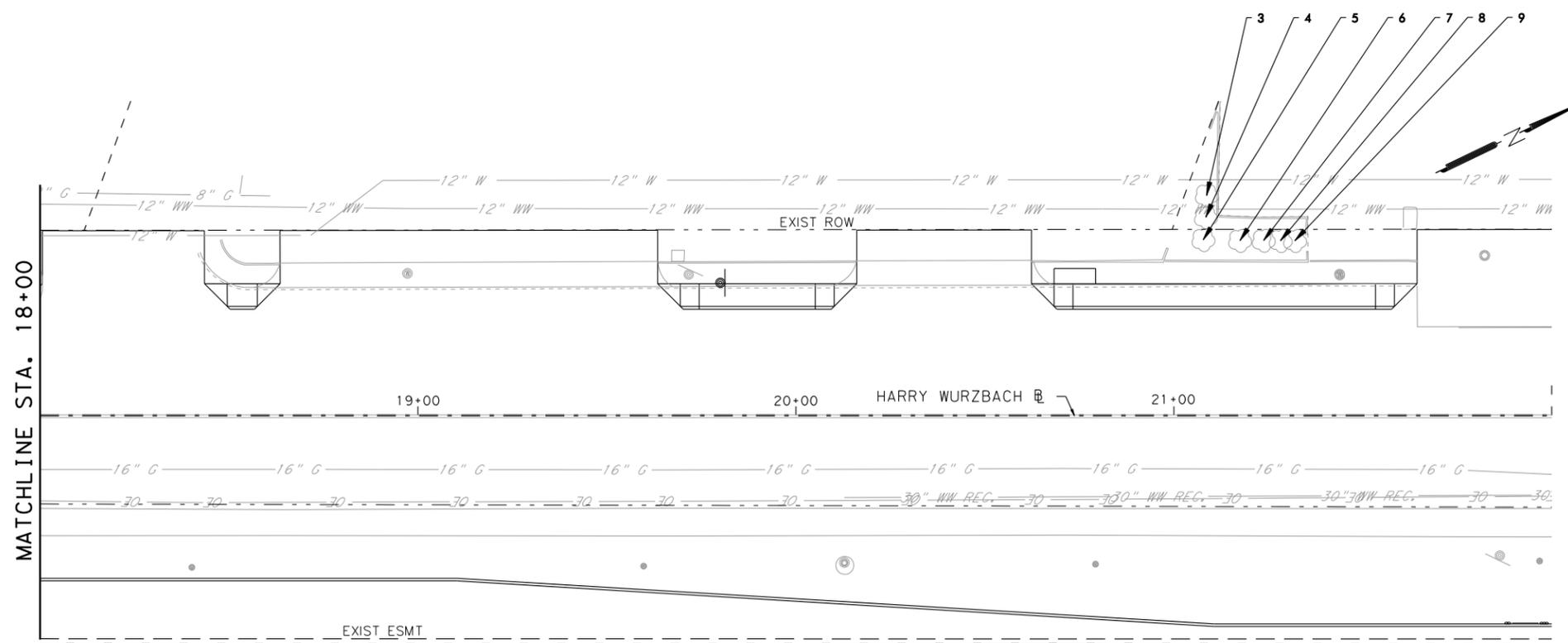


P:\25774\131-25774-09052\CAD_SheetFiles\015-09 tree_pln01.dgn 7/31/2011 8:12:10 PM

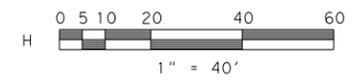


MATCHLINE STA. 18+00



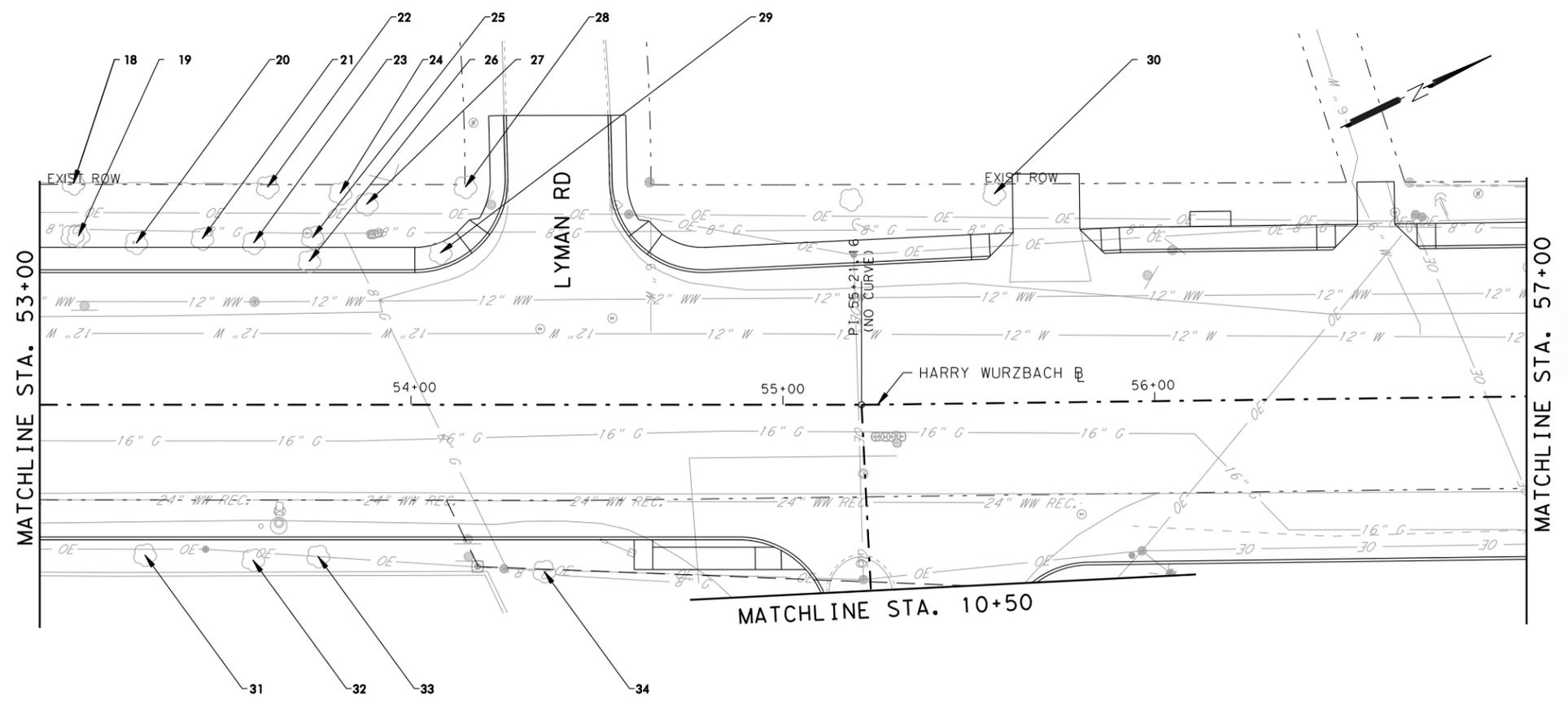
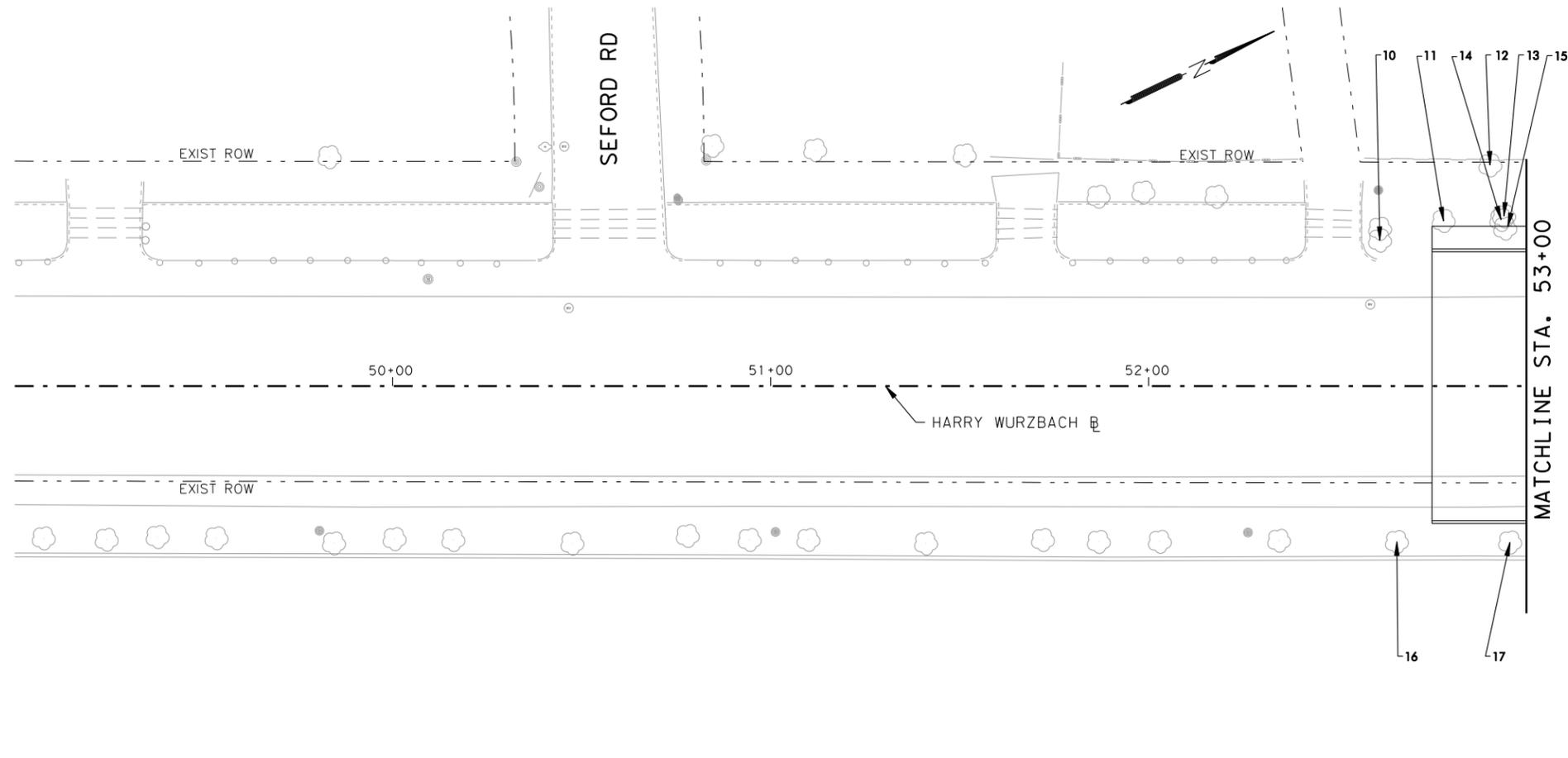
MATCHLINE STA. 18+00

- TREE PROTECTION AND PRESERVATION GENERAL NOTES
1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
 2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
 3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
 4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
 5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
 6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
 7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OR TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
 8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
 9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
 10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171. CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
 11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
 12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
 13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
 14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
 15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
 16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

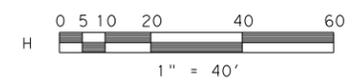


TETRA TECH		
TBPE F-3924 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM		
Texas Department of Transportation © 2011		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT FORT SAM HOUSTON TRANSPORTATION PROJECTS TREE INVENTORY LAYOUT BURR RD. & HARRY WURZBACH INTERSECTION		
FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 118

p:\25774\131-25774-09052\cadd\SheetFiles\015-09_tree_pln02.dgn 7/31/2011 8:12:34 PM

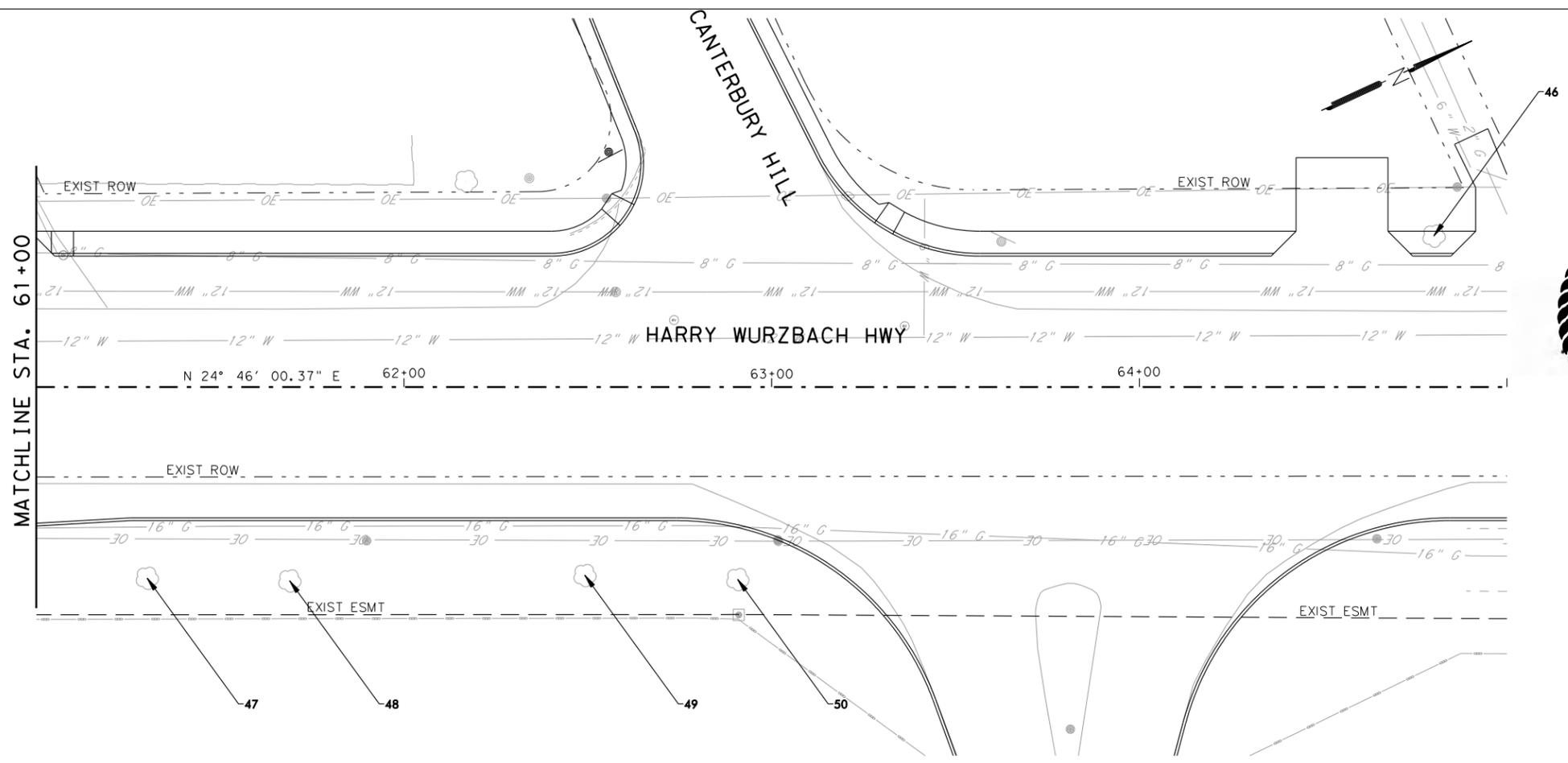
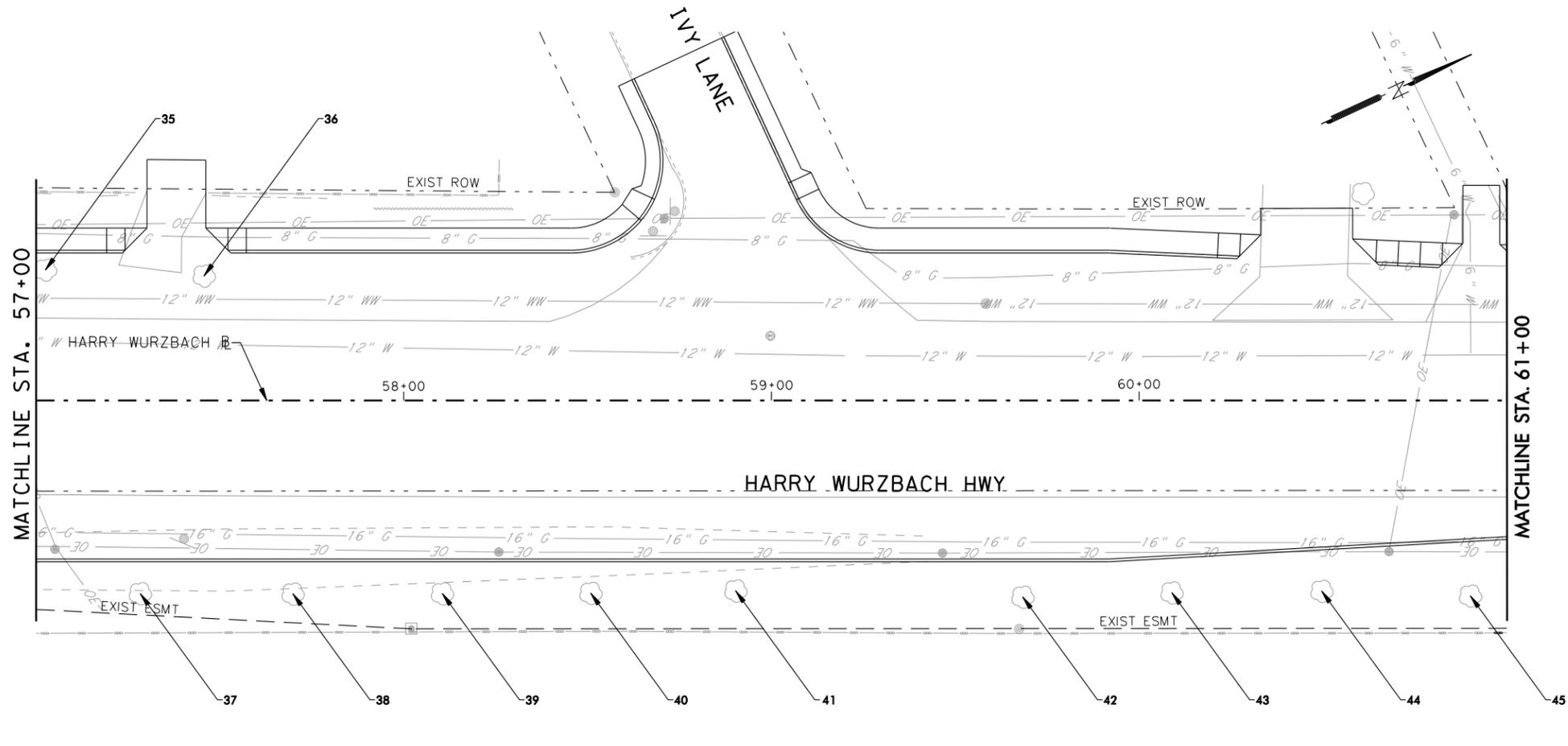


- TREE PROTECTION AND PRESERVATION GENERAL NOTES
1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
 2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
 3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
 4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
 5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
 6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
 7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OR TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
 8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
 9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
 10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171. CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
 11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
 12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
 13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
 14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
 15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
 16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

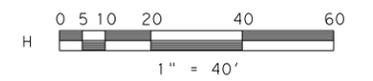


TETRA TECH		
TBPE F-3924 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM		
Texas Department of Transportation © 2011		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT FORT SAM HOUSTON TRANSPORTATION PROJECTS		
TREE INVENTORY LAYOUT		
FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
SHEET NO.: 119		

p:\25774\131-25774-09052\cadd\SheetFiles\015-09_tree_pln03.dgn 7/31/2011 8:12:56 PM

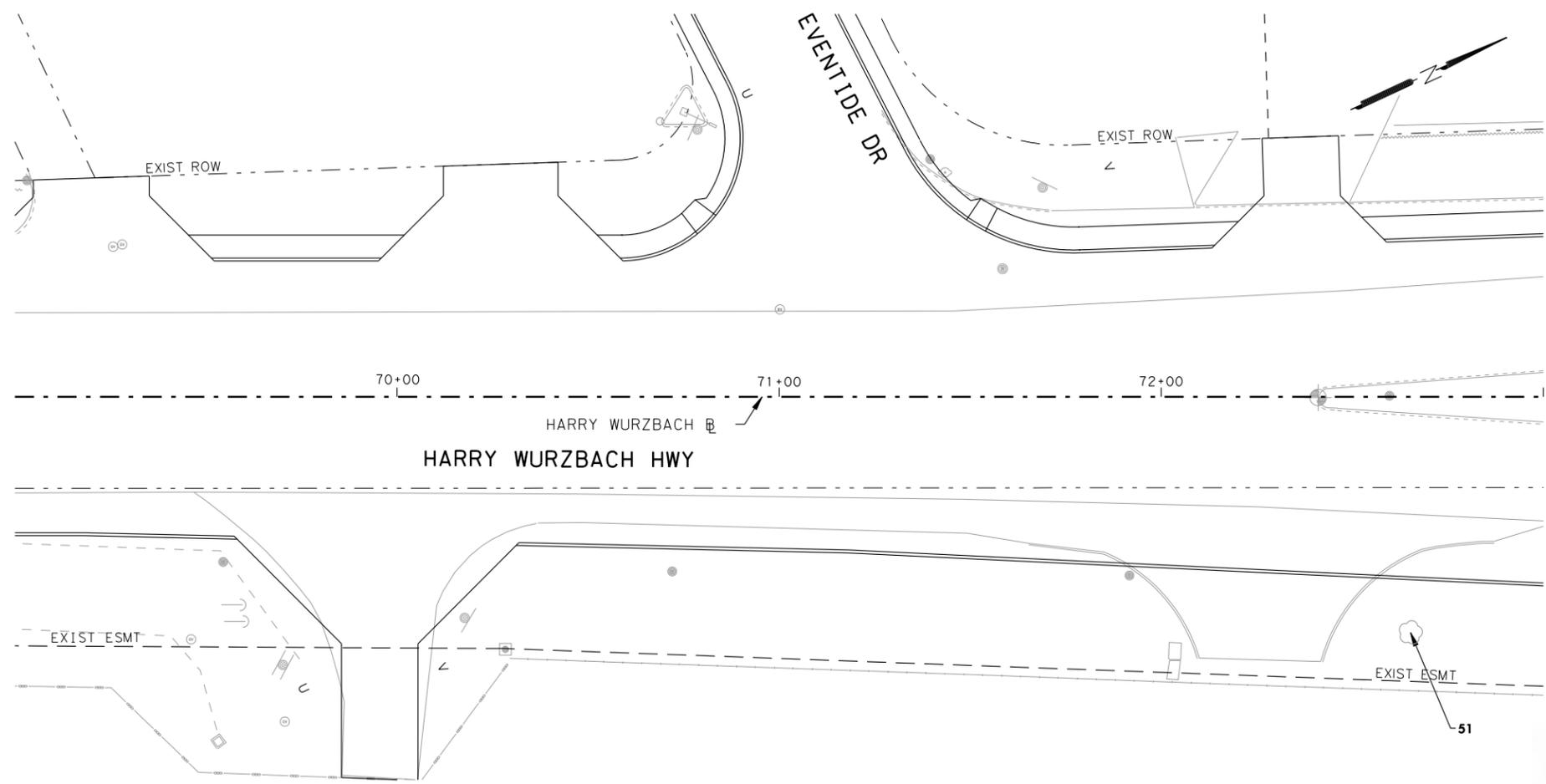


- TREE PROTECTION AND PRESERVATION GENERAL NOTES
1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
 2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
 3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
 4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
 5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
 6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
 7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OR TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
 8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
 9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
 10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171. CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
 11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
 12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
 13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
 14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
 15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
 16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.



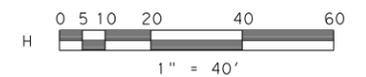
TETRA TECH		
TBPE F-3924 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM		
Texas Department of Transportation © 2011		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT FORT SAM HOUSTON TRANSPORTATION PROJECTS		
TREE INVENTORY LAYOUT		
FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 120

p:\25774\131-25774-09052\cadd\SheetFiles\015-09_tree_pln04.dgn 7/31/2011 8:13:18 PM



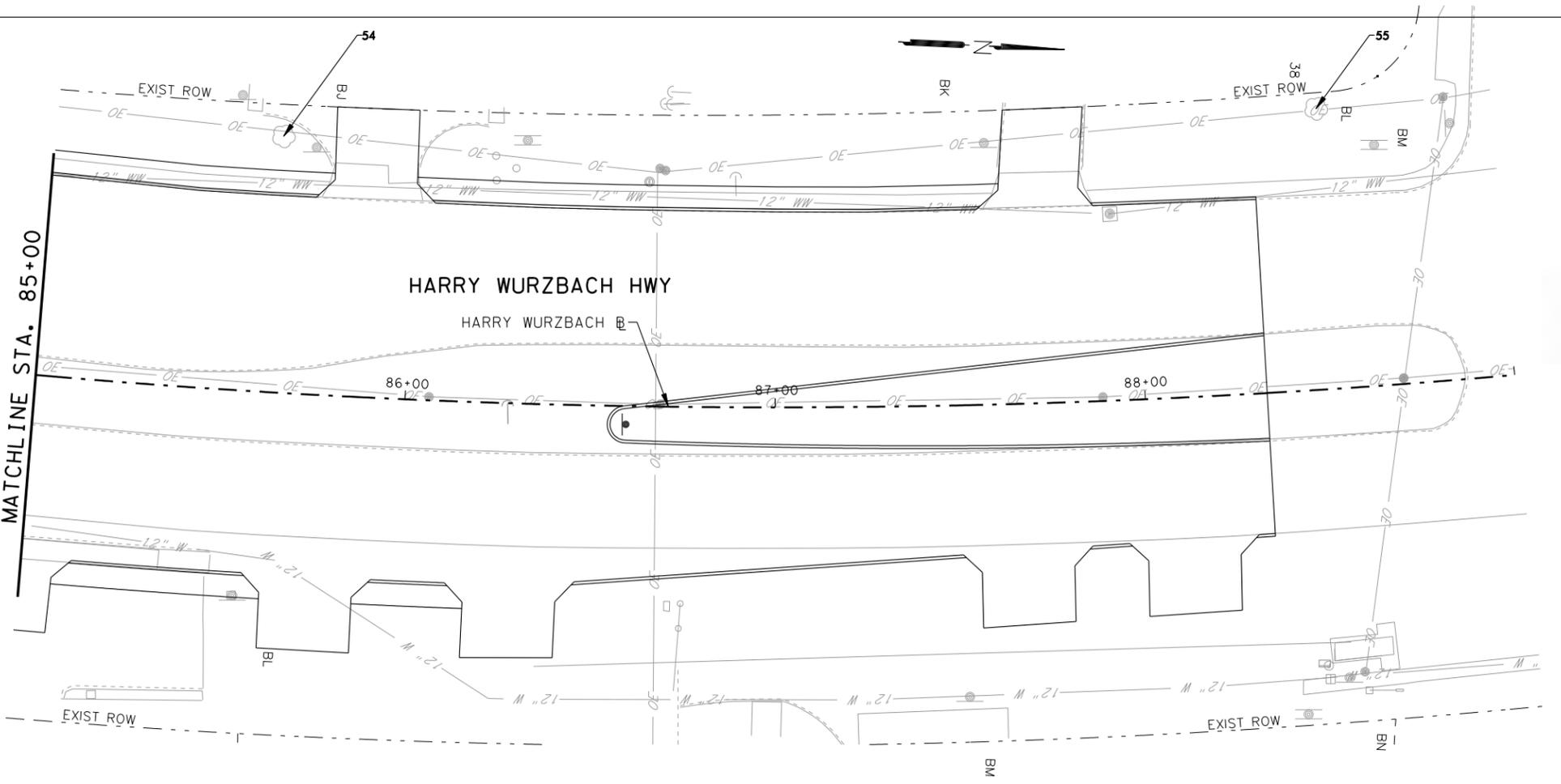
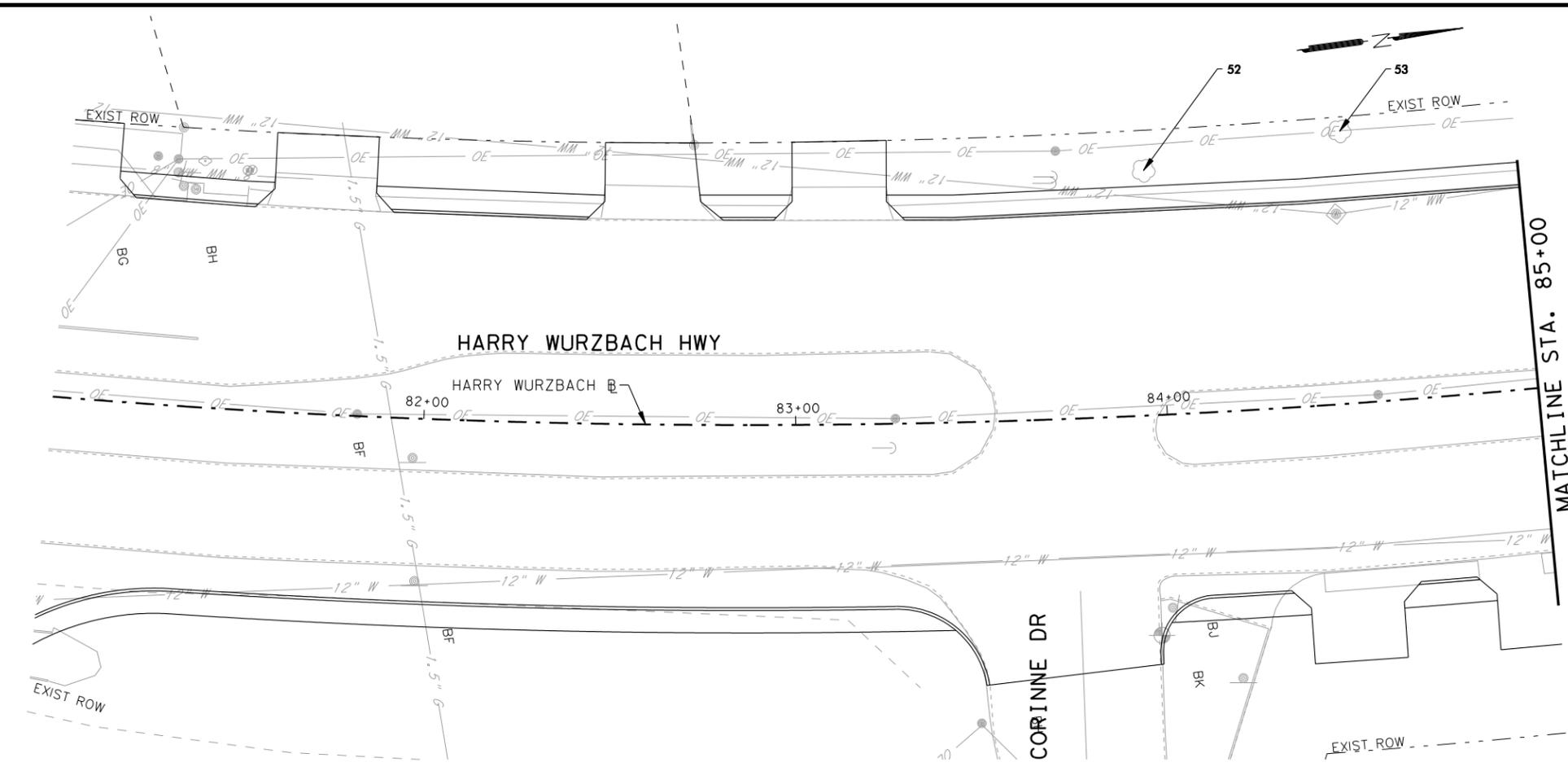
TREE PROTECTION AND PRESERVATION GENERAL NOTES

1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OR TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171. CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

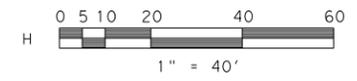


TETRA TECH		
TBPE F-3924 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRA TECH.COM		
Texas Department of Transportation © 2011		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT FORT SAM HOUSTON TRANSPORTATION PROJECTS		
TREE INVENTORY LAYOUT		
FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 121

p:\25774\131-25774-09052\cadd\SheetFiles\015-09_tree_pln05.dgn 7/31/2011 8:13:35 PM

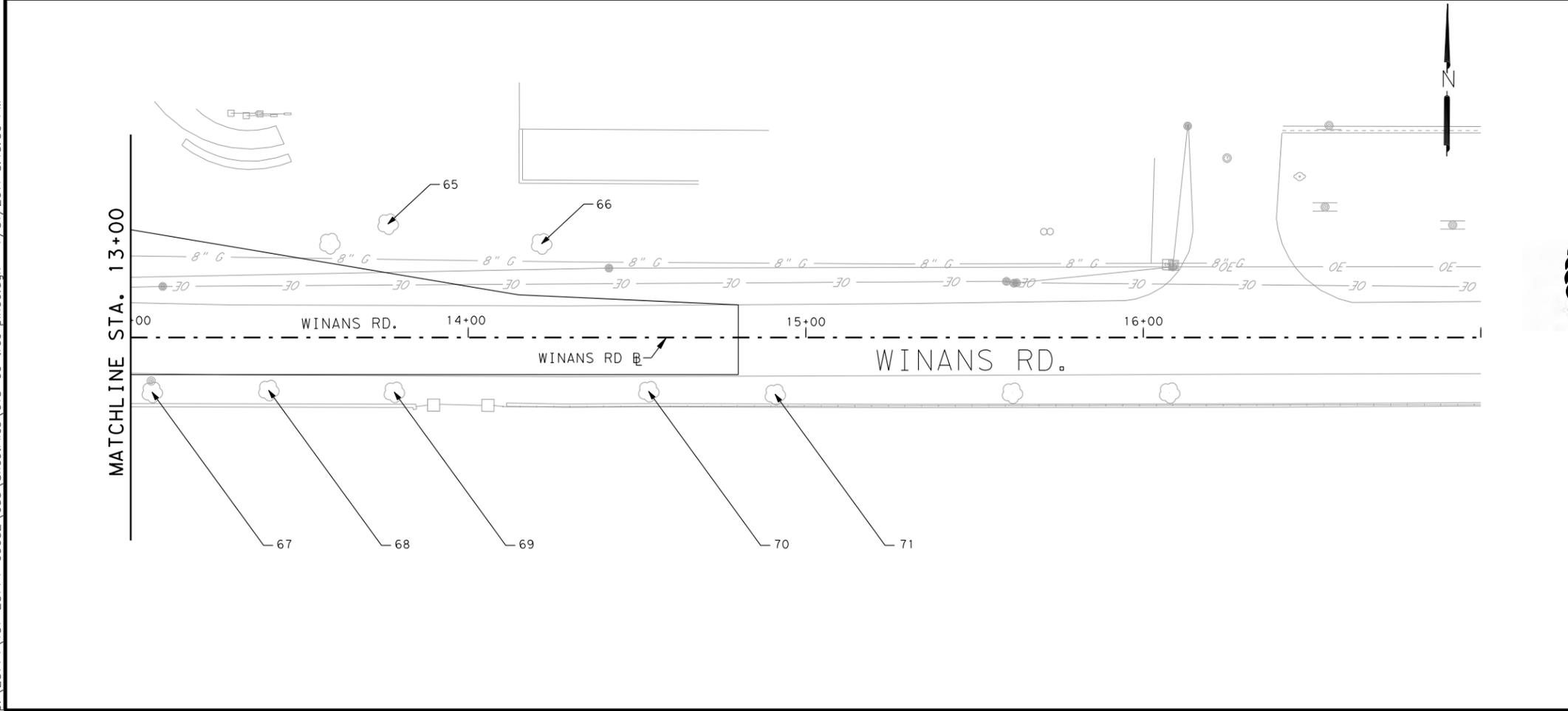
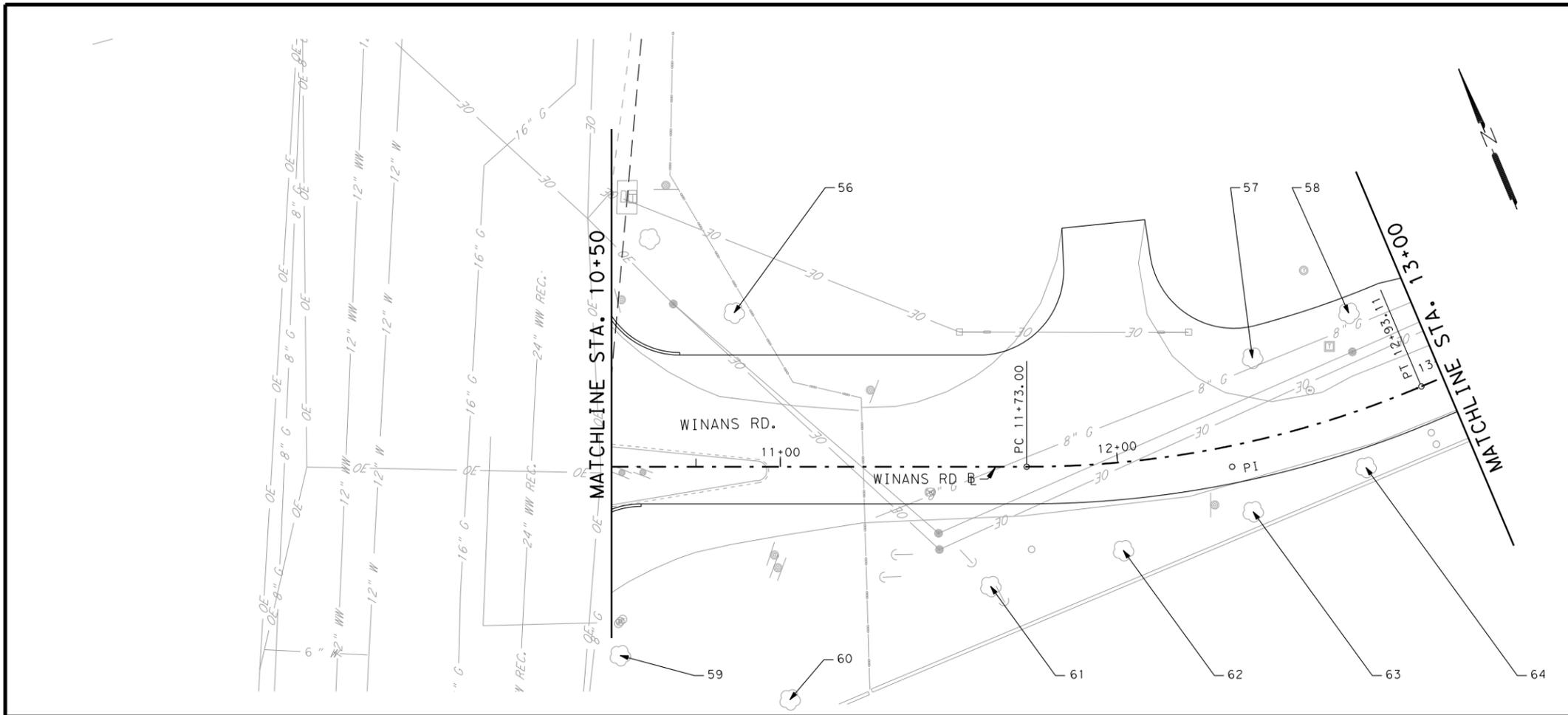


- TREE PROTECTION AND PRESERVATION GENERAL NOTES
1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
 2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
 3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
 4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
 5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
 6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
 7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OR TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
 8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
 9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
 10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171. CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
 11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
 12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
 13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
 14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
 15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
 16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

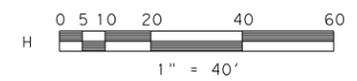


TETRA TECH		
TBPE F-3924 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM		
Texas Department of Transportation		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT		
FORT SAM HOUSTON TRANSPORTATION PROJECTS TREE INVENTORY LAYOUT		
FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 122

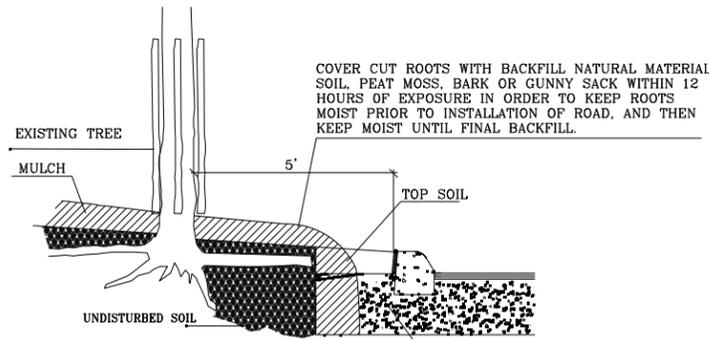
p:\25774\131-25774-09052\cadd\SheetFiles\015-09_tree_pln06.dgn 7/31/2011 8:13:50 PM



- TREE PROTECTION AND PRESERVATION GENERAL NOTES
1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
 2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
 3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
 4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
 5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
 6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
 7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OR TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
 8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
 9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
 10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171. CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
 11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
 12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
 13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
 14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
 15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
 16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.



TETRA TECH		
<small>TBPE F-3924 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM</small>		
 Texas Department of Transportation <small>© 2011</small>		
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT FORT SAM HOUSTON TRANSPORTATION PROJECTS		
TREE INVENTORY LAYOUT		
FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 123

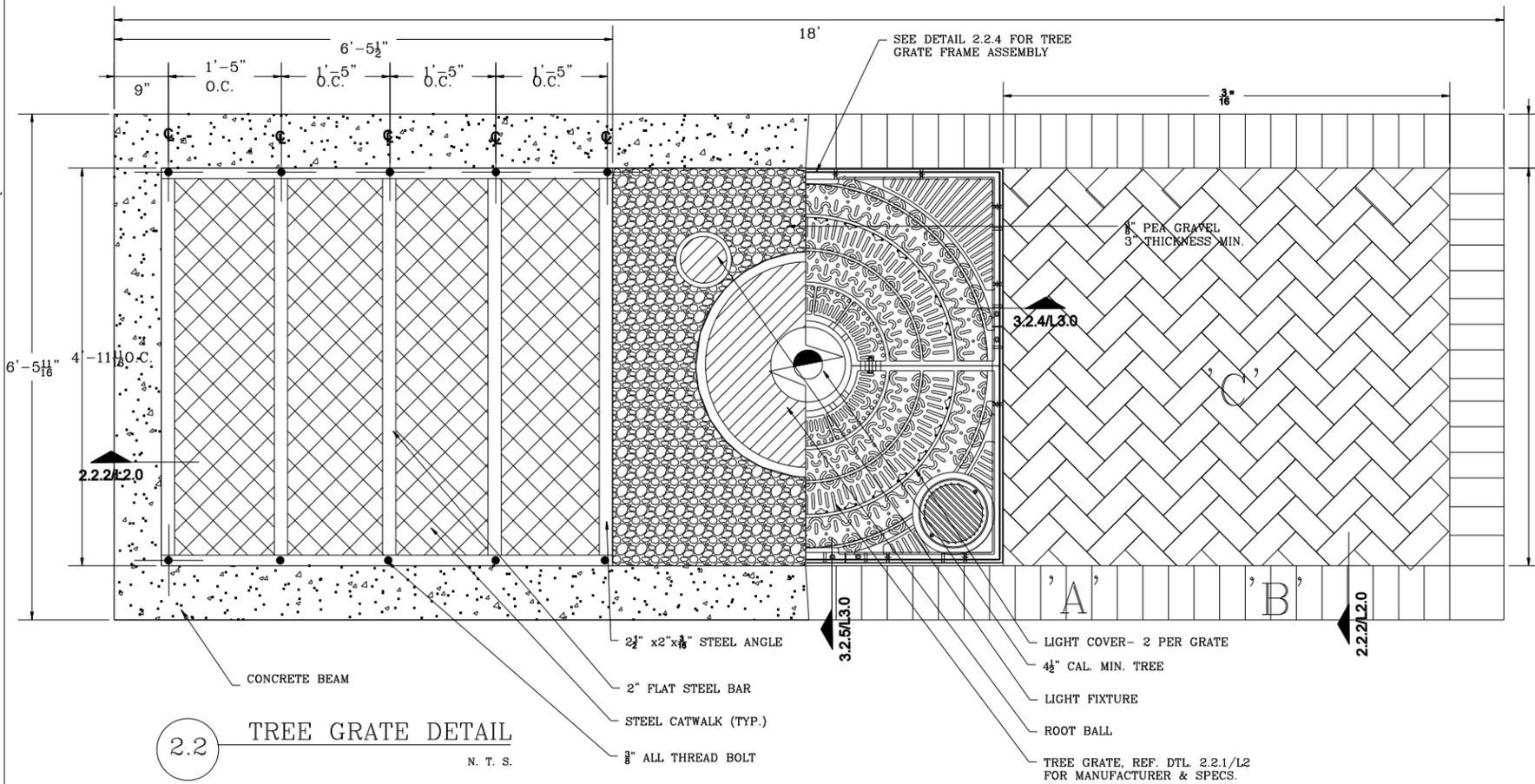


NOTE: ROOT ZONE OUTSIDE OF TREE PROTECTION BARRIER SHOULD BE COVERED AT ALL TIMES WITH 8" OF BARK MULCH THROUGHOUT THE CONSTRUCTION PHASE. EXISTING TREES SHOULD BE DEEP WATERED AS SPECIFIED IN ITEM 801 & 802

2.1 EXPOSED ROOT PROTECTION DETAIL

N. T. S.

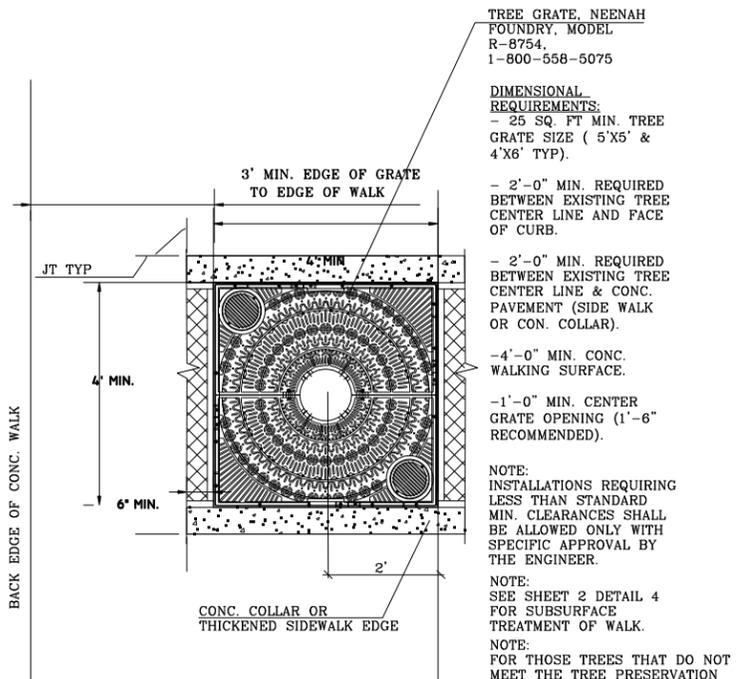
NOTE: FOR THOSE TREES THAT DO NOT MEET THE TREE PRESERVATION ORDINANCE REQUIREMENTS PRESERVATION SHALL BE DETERMINED ON A CASE BY CASE BASIS



2.2 TREE GRATE DETAIL

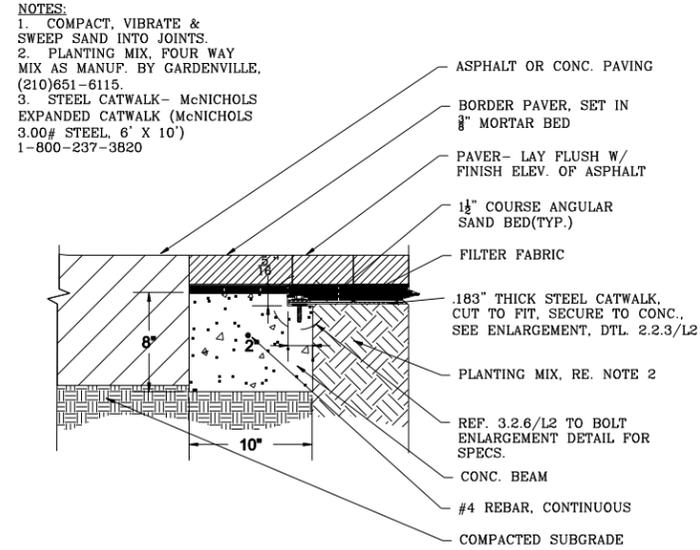
N. T. S.

- NOTES:
- PAVER 'A': 8 5/16" x 23 3/8" THICKNESS CONC. PAVER (CITY SPEC. II) CASTONE COLOR, BY PAVESTONE. 1-800-580-PAVE.
 - PAVER 'B': 4 5/8" x 8 5/8" x 2 3/8" THICKNESS, PATTERN AS SHOWN ON PLAN, CONC. PAVER (HOLLAND STONE) CAST STONE COLOR, MANUF. BY PAVESTONE.
 - PAVER 'C': 4 5/8" x 8 5/8" x 2 3/8" THICKNESS, 45° HERRINGBONE PATTERN, CONC. PAVER (HOLLAND STONE), ANTIQUE COLOR, MANUF. BY PAVESTONE.



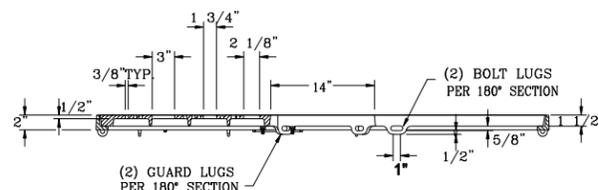
2.2.1 TREE GRATE PLAN VIEW

N. T. S.



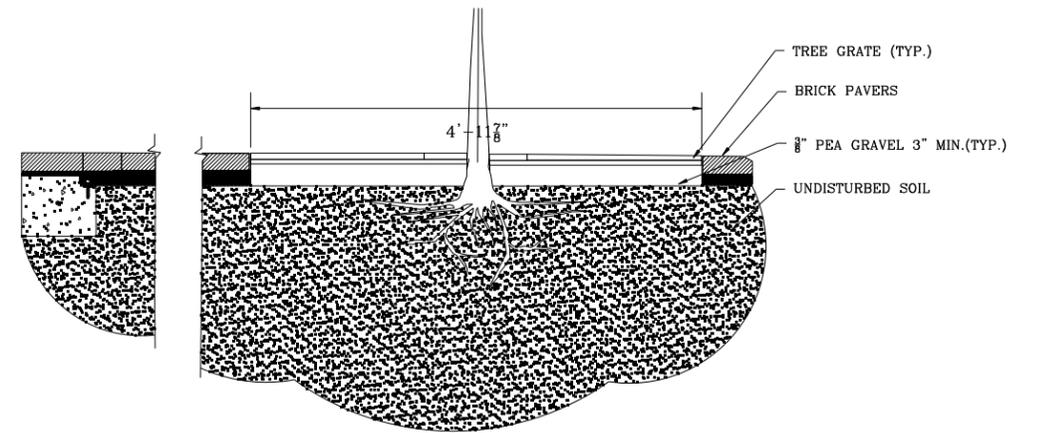
2.2.2 SECTION: PAVER @ ASPHALT

N. T. S.



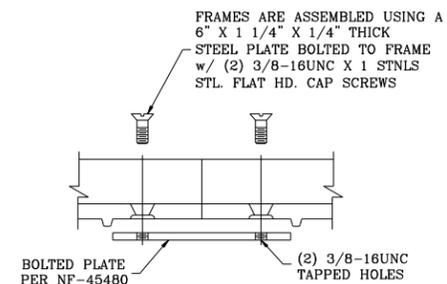
2.2.4 SECTION: TREE GRATE FRAME

N. T. S.



2.2.3 TREE WELL SECTION

N. T. S.



2.2.5 SECTION: GRATE FRAME ASSEMBLY

N. T. S.

PREPARED BY: FERNANDEZ FRAZER WHITE & ASSOC. INC. & C. P. ZAVALA GROUP

CITY OF SAN ANTONIO

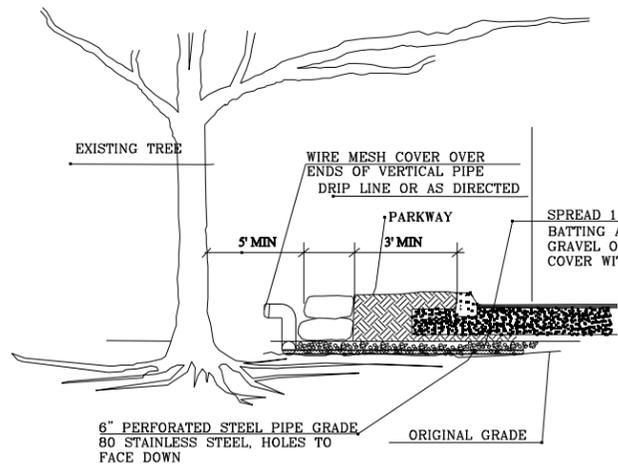


DEPARTMENT OF PUBLIC WORKS

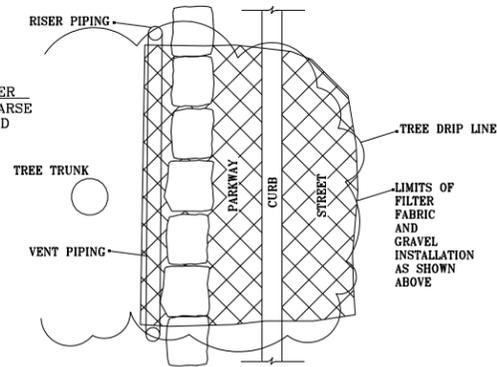
CITY OF SAN ANTONIO
TREE PROTECTION DETAILS

TREE PRESERVATION

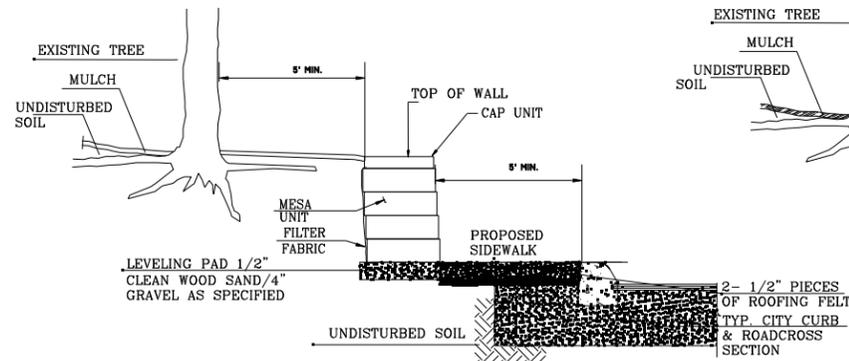
DESIGNED:	FED. RD. DIST. NO.	STATE		SHT. NO.
CHECKED:	TEXAS			125
DRAWN:	STATE DIST. NO.	COUNTY	CONTROL NO.	SECT. NO.
CHECKED:	21	BEXAR	915	12
				470, etc.
				HARRY WURZBACH



4.2 TREE AERATION DETAIL B
N. T. S.

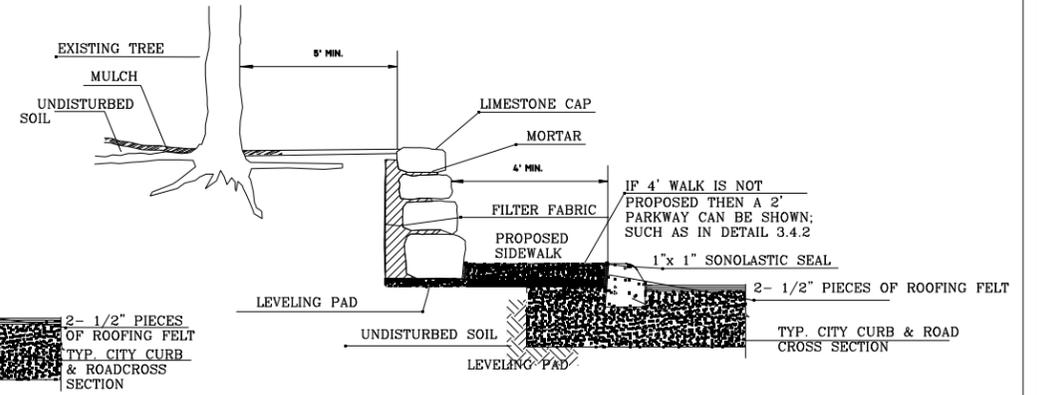


4.2.2 PLAN VIEW B
N. T. S.



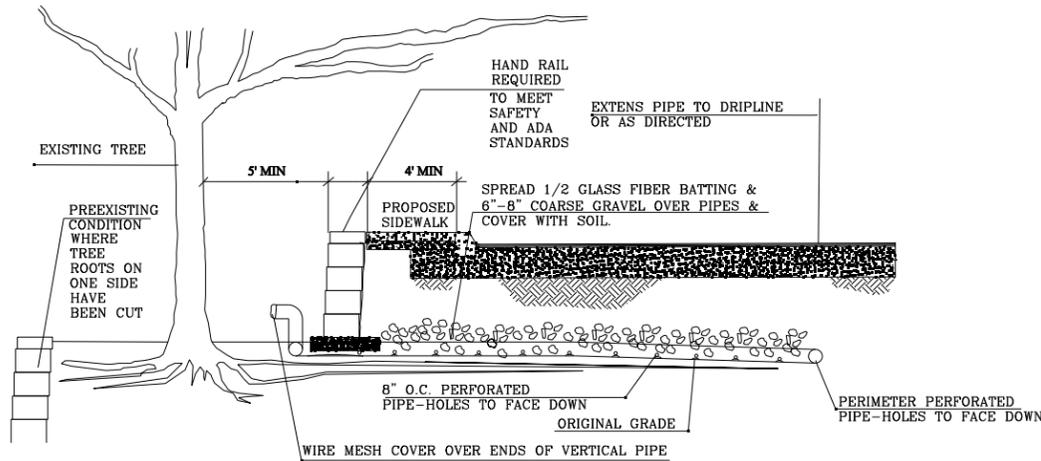
4.3 SEGMENTAL GRAVITY WALL
ADJACENT TO CURB
N. T. S.

NOTE—
THIS TYPE OF WALL CAN BE USED ON OTHER APPLICATIONS
TREES CANNOT BE PRESERVED IF THEY ARE CLOSER THAN 5 FEET
TO THE WALL

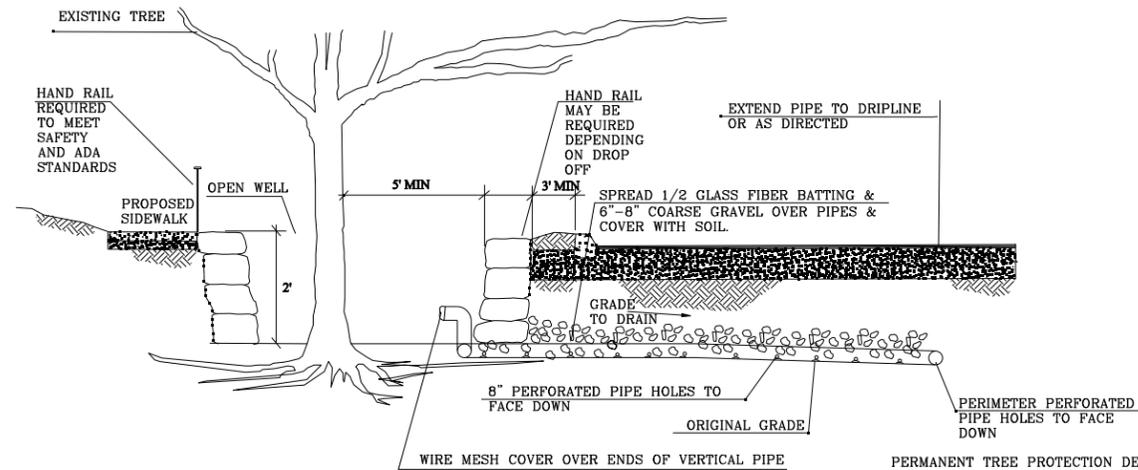


4.3.2 LIMESTONE BOULDER GRAVITY WALL
ADJACENT TO CURB
N. T. S.

NOTE—
THIS TYPE OF WALL CAN BE USED ON OTHER APPLICATIONS
TREES CANNOT BE PRESERVED IF THEY ARE CLOSER THAN 5 FEET
TO THE WALL

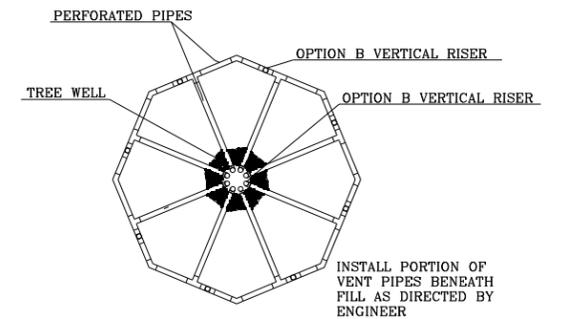


4.4 TREE AERATION DETAIL C
N. T. S.



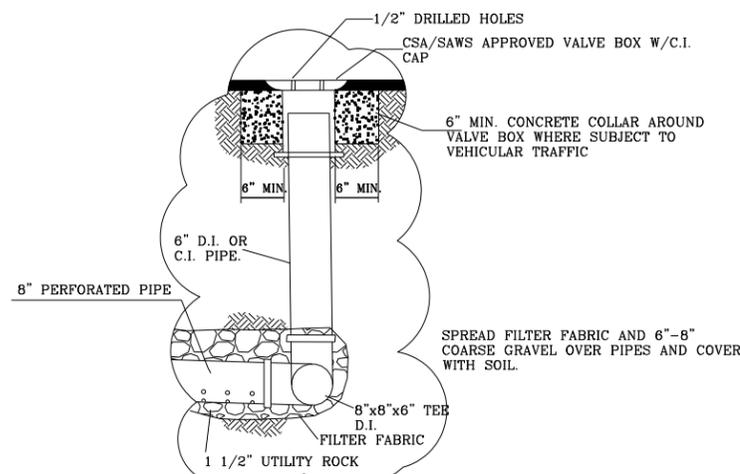
4.4.2 TREE AERATION DETAIL C
N. T. S.

NOTE: THIS AERATION SYSTEM CAN BE USED FOR
NEW PROJECTS WHERE FILL IS OCCURRING SUCH
AS PARKING LOTS OR CONSTRUCTION. DRAIN AWAY
FROM EXISTING TREE.

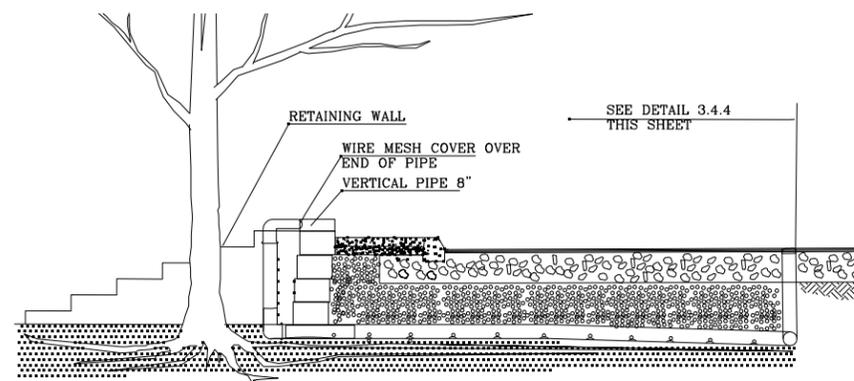


4.4.3 PLAN VIEW C
N. T. S.

PERMANENT TREE PROTECTION DETAIL
(WHEN FINISHED GRADE IS 1'-0" OR
MORE ABOVE EXISTING GRADE)
NOTE:
WELL TO BE CONSTRUCTED OF STONE,
BLOCK OR BRICK. IF BRICK IS USED,
VERTICAL JOINTS LEFT OPEN FOR
DRAINAGE 1/2" MAXIMUM INSIDE FACE
OF WALL.

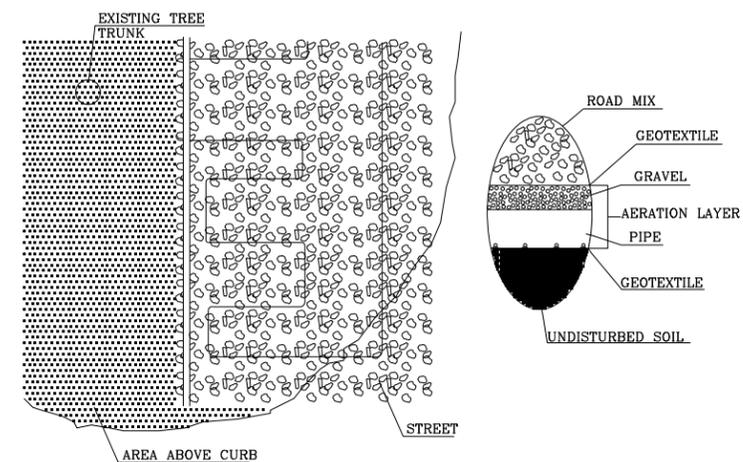


4.4.4 TREE AERATION SECTION C
N. T. S.



4.4.5 TREE AERATION DETAIL D
N. T. S.

NOTE: THIS AERATION SYSTEM CAN BE USED FOR
NEW PROJECTS WHERE FILL IS OCCURRING SUCH
AS PARKING LOTS OR ROADWAY CONSTRUCTION.
DRAIN AWAY FROM EXISTING TREE.



4.4.1 TREE AERATION PLAN VIEW D
N. T. S.

PREPARED BY: FERNANDEZ FRAZER WHITE & ASSOC. INC.
& C. F. ZAVALA GROUP

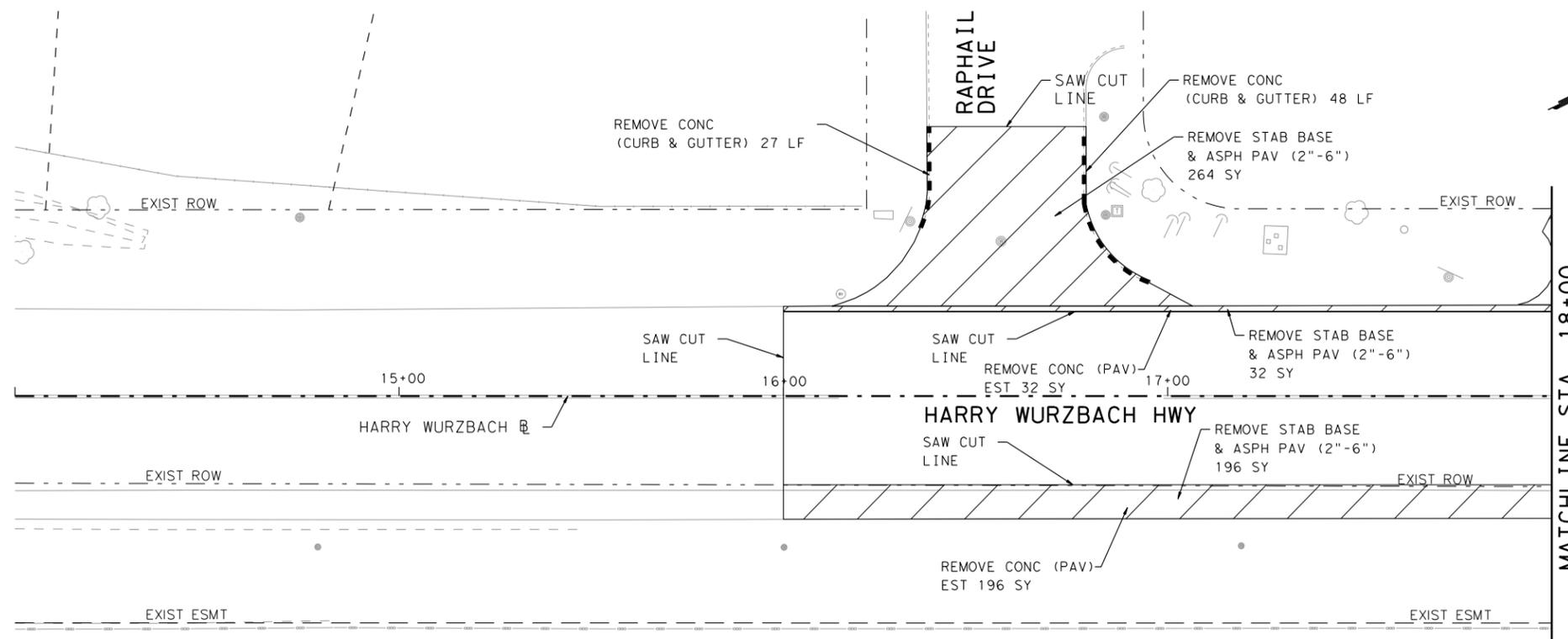
CITY OF SAN ANTONIO



DEPARTMENT OF PUBLIC WORKS

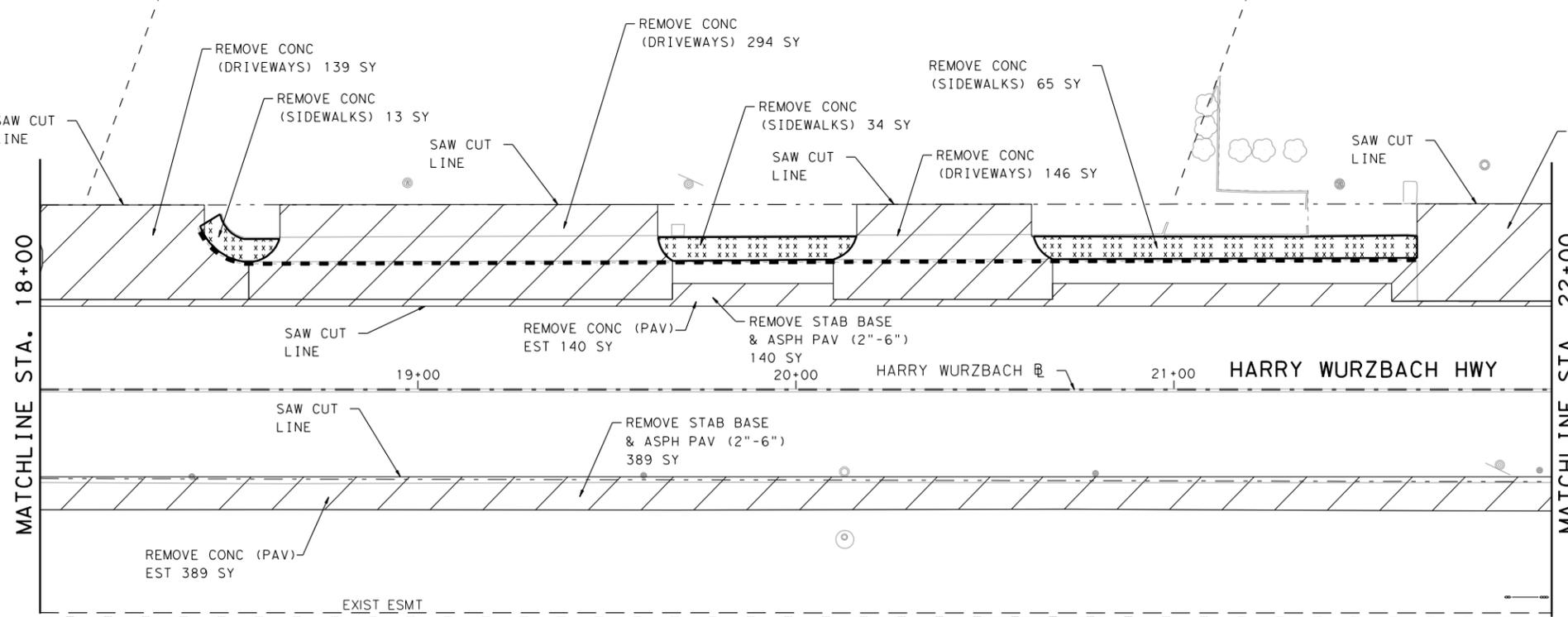
CITY OF SAN ANTONIO
TREE PROTECTION DETAILS
TREE PRESERVATION

DESIGNED: ABJR	FED. RD. DIST. NO.	STATE		SHT. NO.
CHECKED:		TEXAS		127
DRAWN:	STATE DIST. NO.	COUNTY	CONTROL NO.	SECT. NO.
CHECKED:	21	BEXAR	915	12
			470, etc.	HARRY WURZBACH



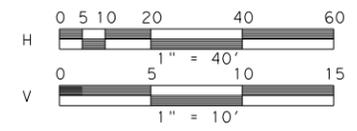
REMOVAL LEGEND

- FULL DEPTH REMOVAL
- CONC SIDEWALK REMOVAL
- SAWCUT LINE
- CURB AND GUTTER REMOVAL



CSJ 915-12-471

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	757.00
REMOVING CONC (DRIVEWAYS)	SY	690.00
REMOVING CONC (CURB OR GUTTER)	LF	75.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALL)	CY	0.00
REMOVING CONC (SIDEWALK OR RAMP)	SY	112.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	1,021.00



1 OF 3

TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRA TECH.COM

Texas Department of Transportation

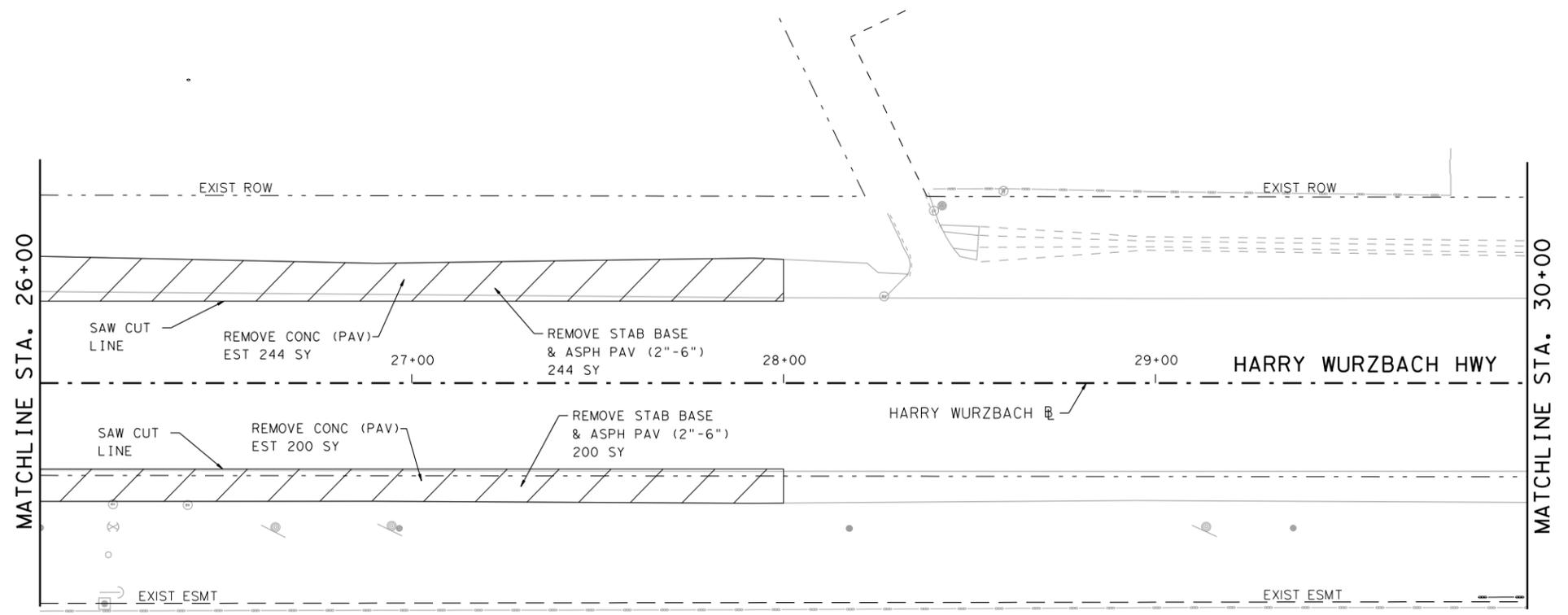
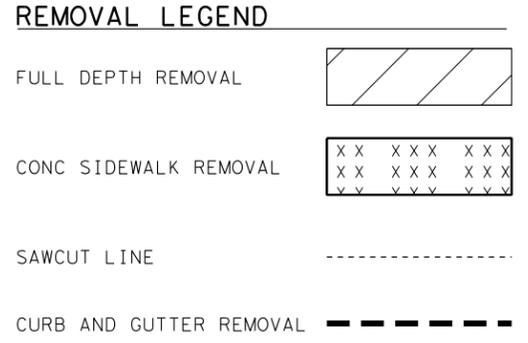
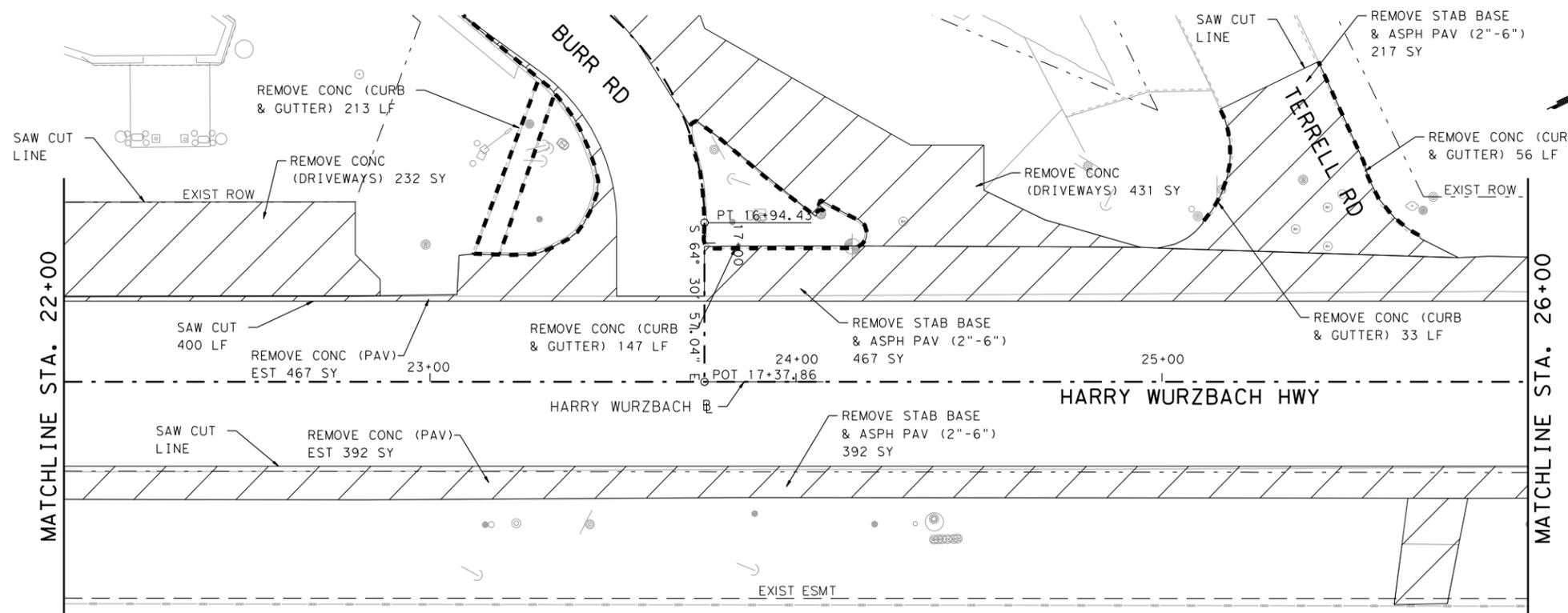
CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS
 BURR RD. & HARRY WURZBACH INTERSECTION

FINAL SUBMITTAL	PROJECT NO.: 915-12-470, etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 128

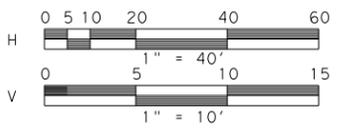
p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rmv01 - 01.dgn 7/31/2011 10:32:22 PM

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rmv01 - 02.dgn 7/31/2011 10:32:38 PM



CSJ 915-12-471

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	1,303.00
REMOVING CONC (DRIVEWAYS)	SY	1,052.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	449.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALL)	CY	0.00
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	1,520.00



2 OF 3

TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRA TECH.COM

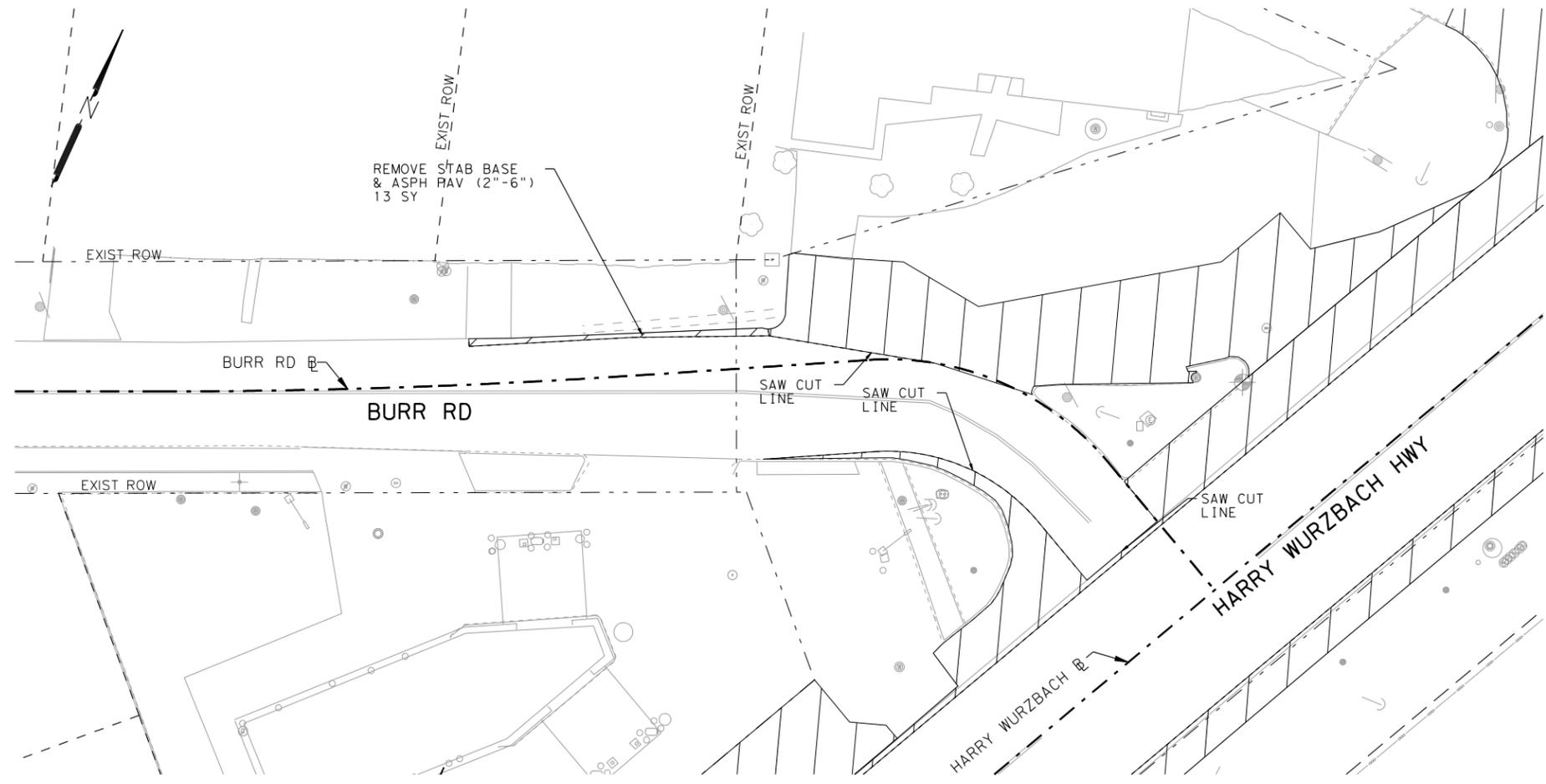
Texas Department of Transportation

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS
 BURR RD. & HARRY WURZBACH INTERSECTION

FINAL SUBMITTAL	PROJECT NO.: 915-12-470, etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 129

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rm\01 - 03.dgn 7/31/2011 10:32:52 PM



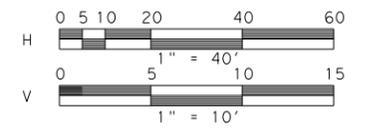
REMOVAL LEGEND

- FULL DEPTH REMOVAL 
- CONC SIDEWALK REMOVAL 
- SAWCUT LINE 
- CURB AND GUTTER REMOVAL 



CSJ 915-12-471

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	0.00
REMOVING CONC (DRIVEWAYS)	SY	0.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	0.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALL)	CY	0.00
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	13.00



3 OF 3

TETRA TECH
TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRA TECH.COM

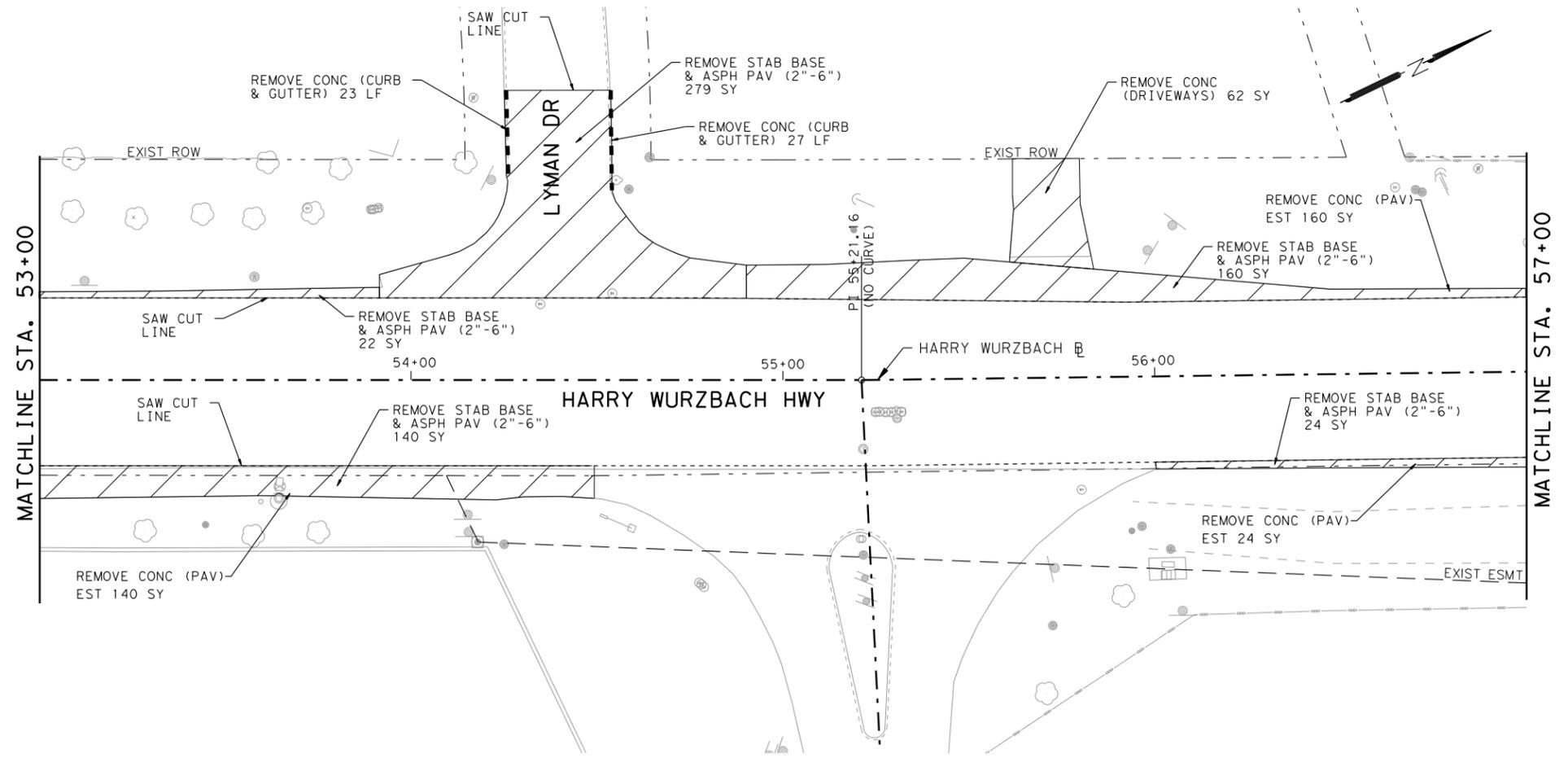
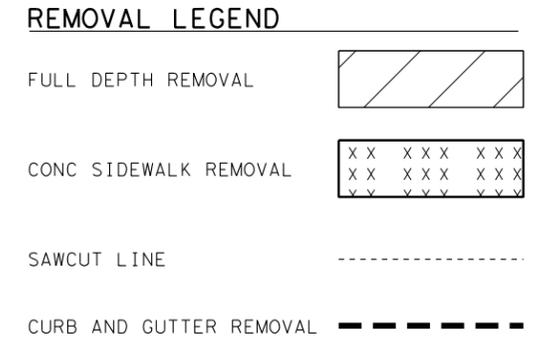
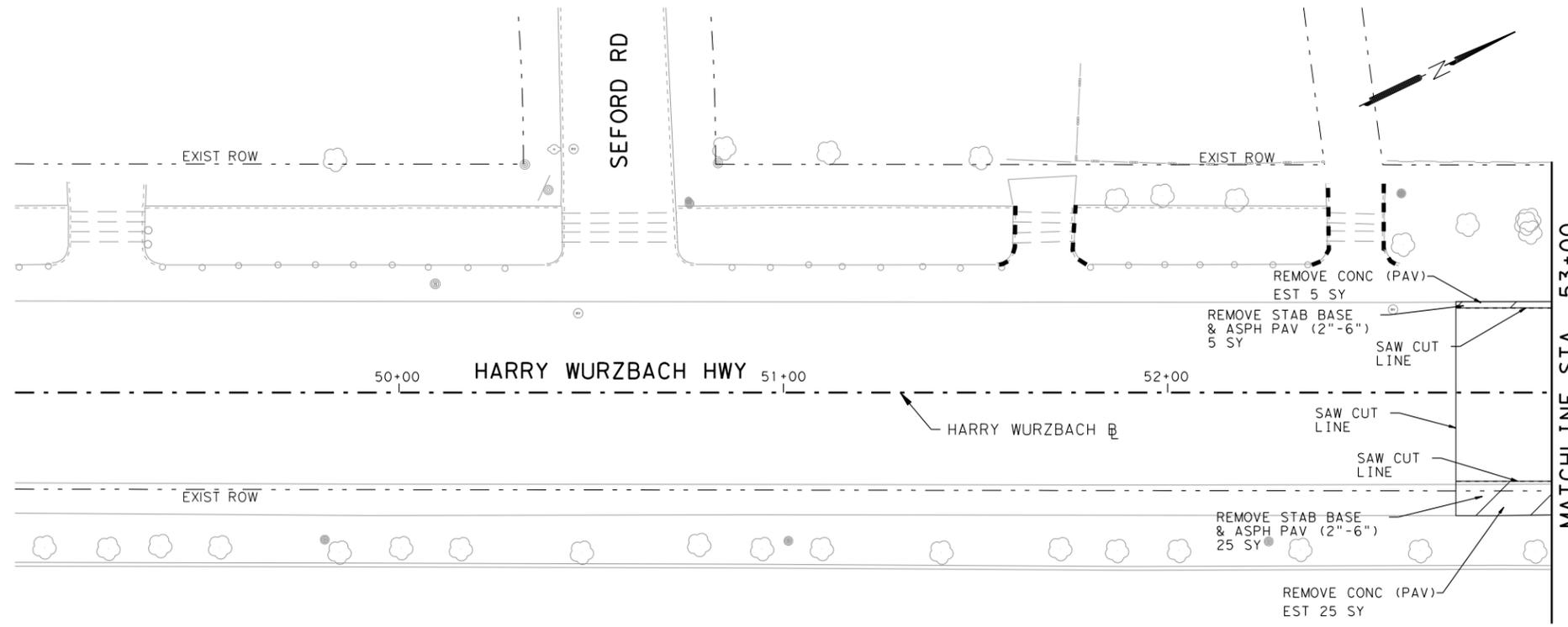
 *Texas Department of Transportation*
© 2011

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS

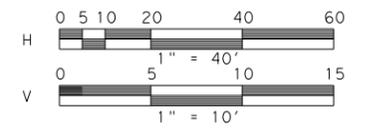
BURR RD. & HARRY WURZBACH INTERSECTION

<small>FINAL SUBMITTAL</small>	<small>PROJECT NO.: 915-12-470,etc</small>	<small>DATE: 7/31/2011</small>
<small>DRWN. BY: RPR</small>	<small>DSGN. BY: JDH</small>	<small>CHKD. BY: RE</small>
		<small>SHEET NO.: 130</small>



CSJ 915-12-470

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	318.00
REMOVING CONC (DRIVEWAYS)	SY	62.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	50.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALL)	CY	0.00
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	681.00



1 OF 4

TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRA TECH.COM

Texas Department of Transportation

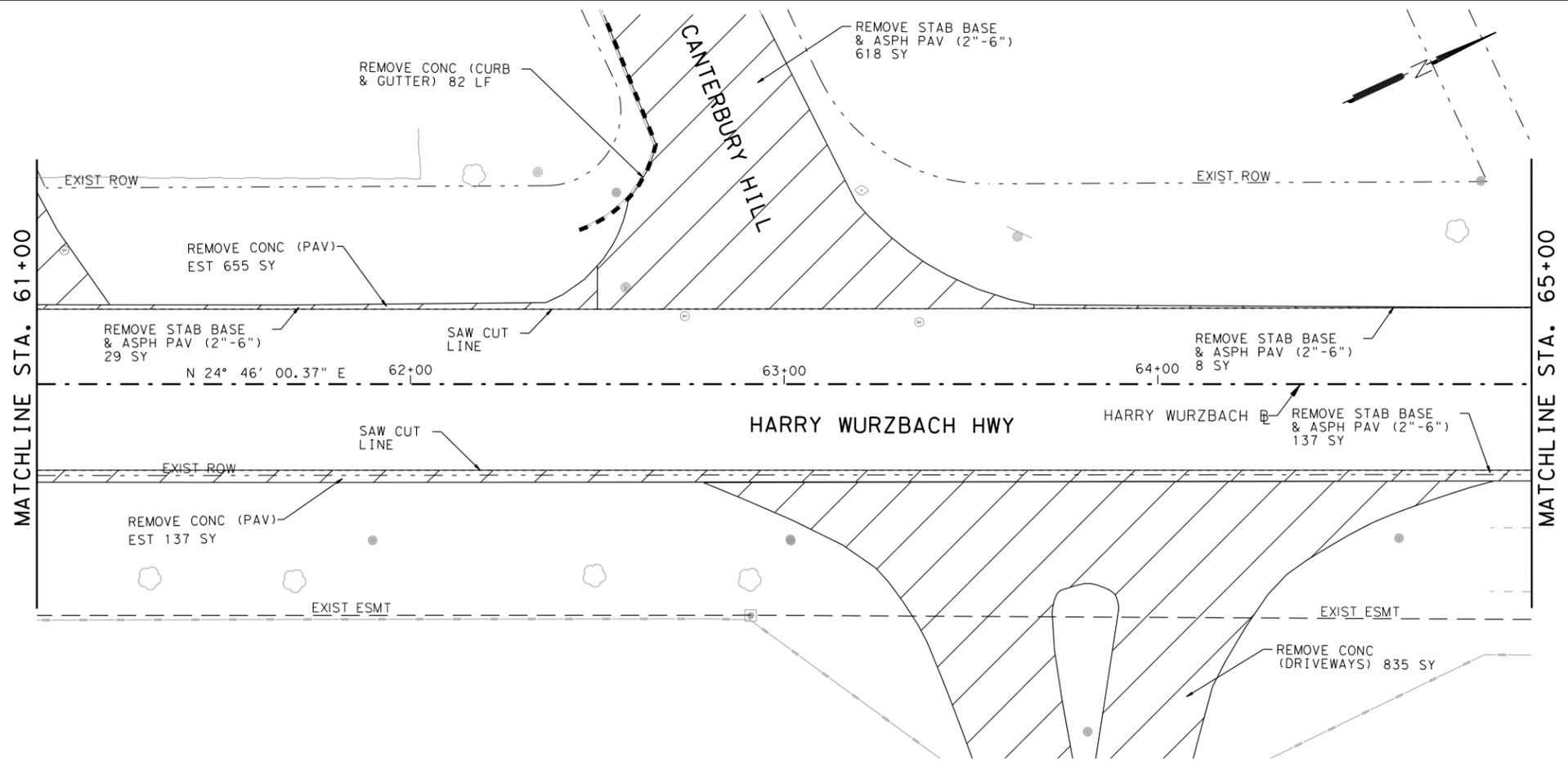
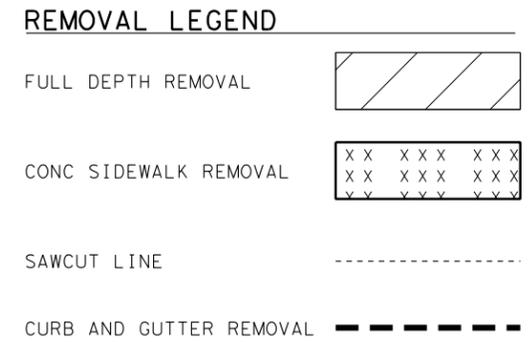
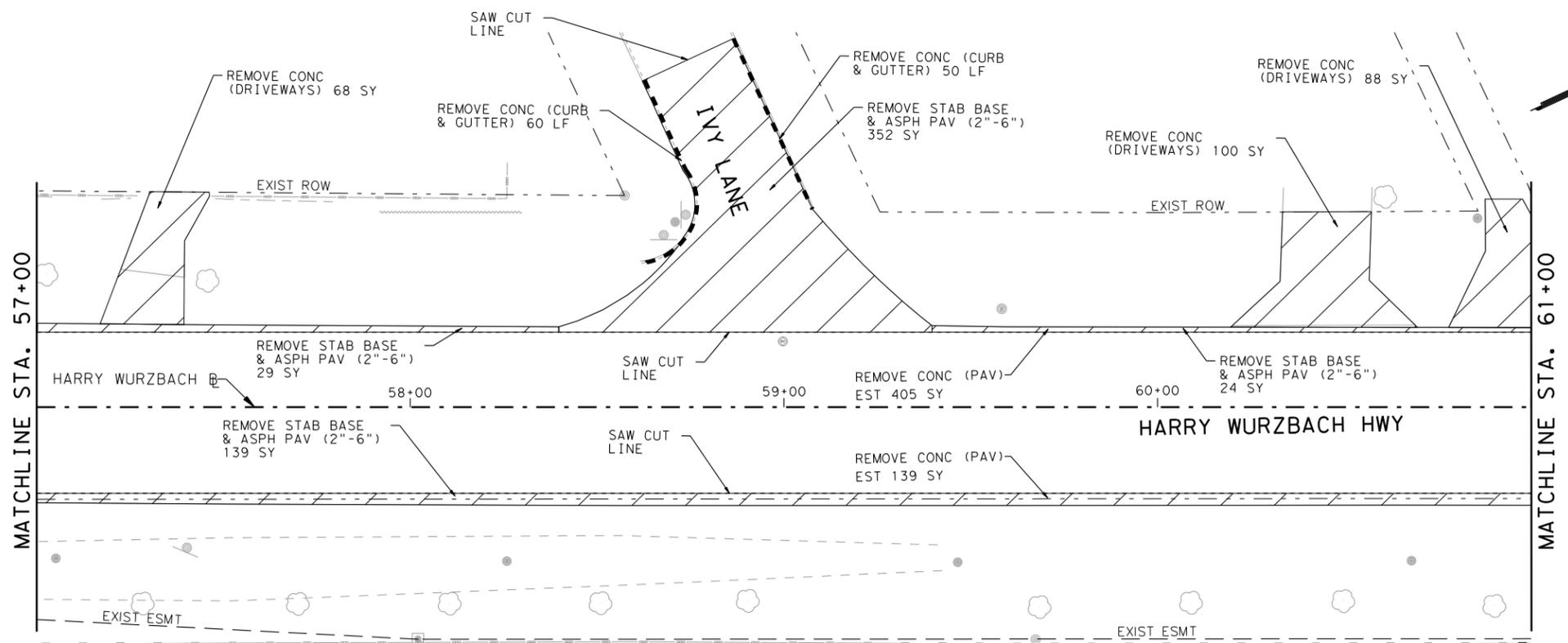
CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS
 WINANS RD. & HARRY WURZBACH INTERSECTION

FINAL SUBMITTAL	PROJECT NO.: 915-12-470, etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 131

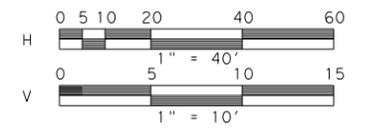
p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rmv01 - 04.dgn 7/31/2011 10:33:07 PM

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rmv01 - 05.dgn 7/31/2011 10:33:21 PM



CSJ 915-12-470

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	1,336.00
REMOVING CONC (DRIVEWAYS)	SY	1,091.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	110.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALK)	CY	0.00
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	1,336.00



2 OF 4

TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRA TECH.COM

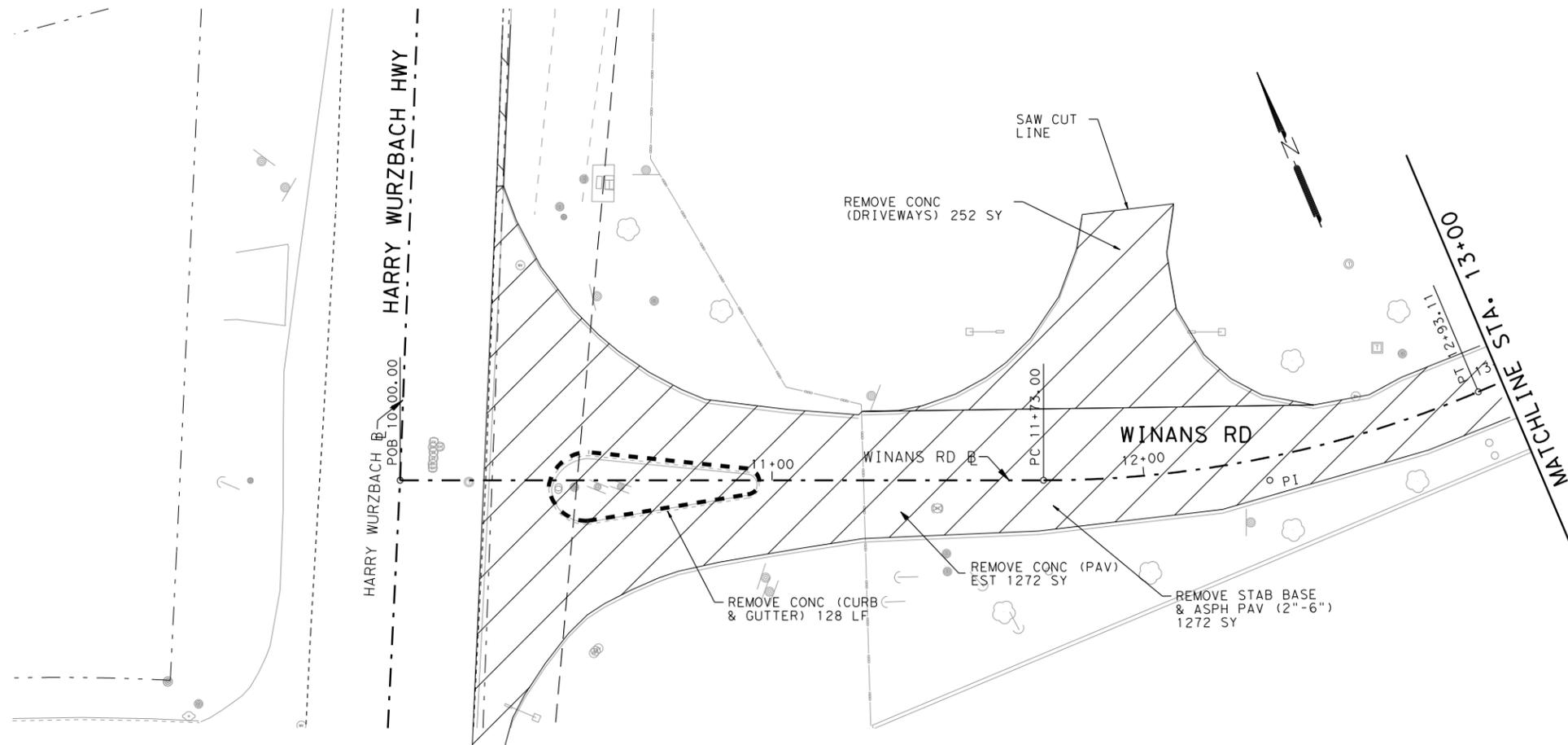
Texas Department of Transportation

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS
 WINANS RD. & HARRY WURZBACH INTERSECTION

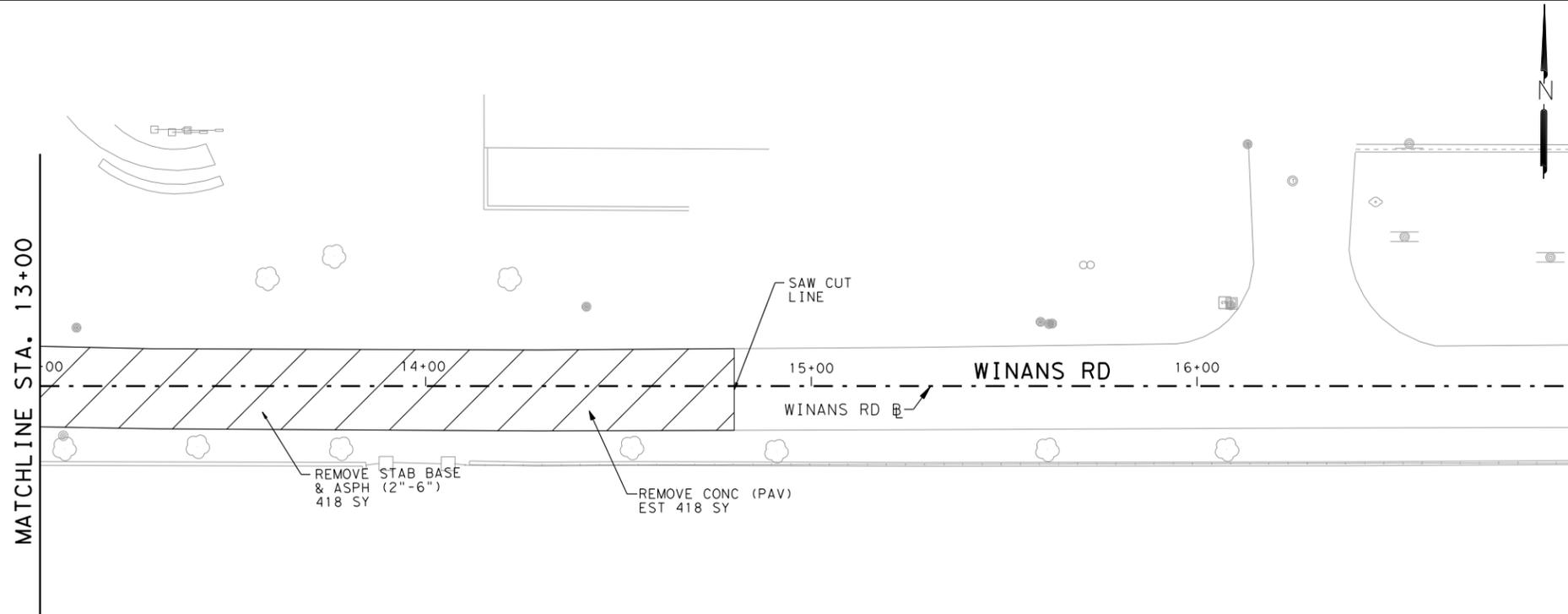
FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 132

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rmv01 - 06.dgn 7/31/2011 10:33:27 PM



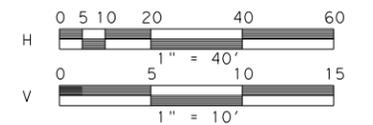
REMOVAL LEGEND

- FULL DEPTH REMOVAL 
- CONC SIDEWALK REMOVAL 
- SAWCUT LINE 
- CURB AND GUTTER REMOVAL 



CSJ 915-12-470

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	1,690.00
REMOVING CONC (DRIVEWAYS)	SY	252.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	128.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALL)	CY	0.00
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	1,690.00



3 OF 4

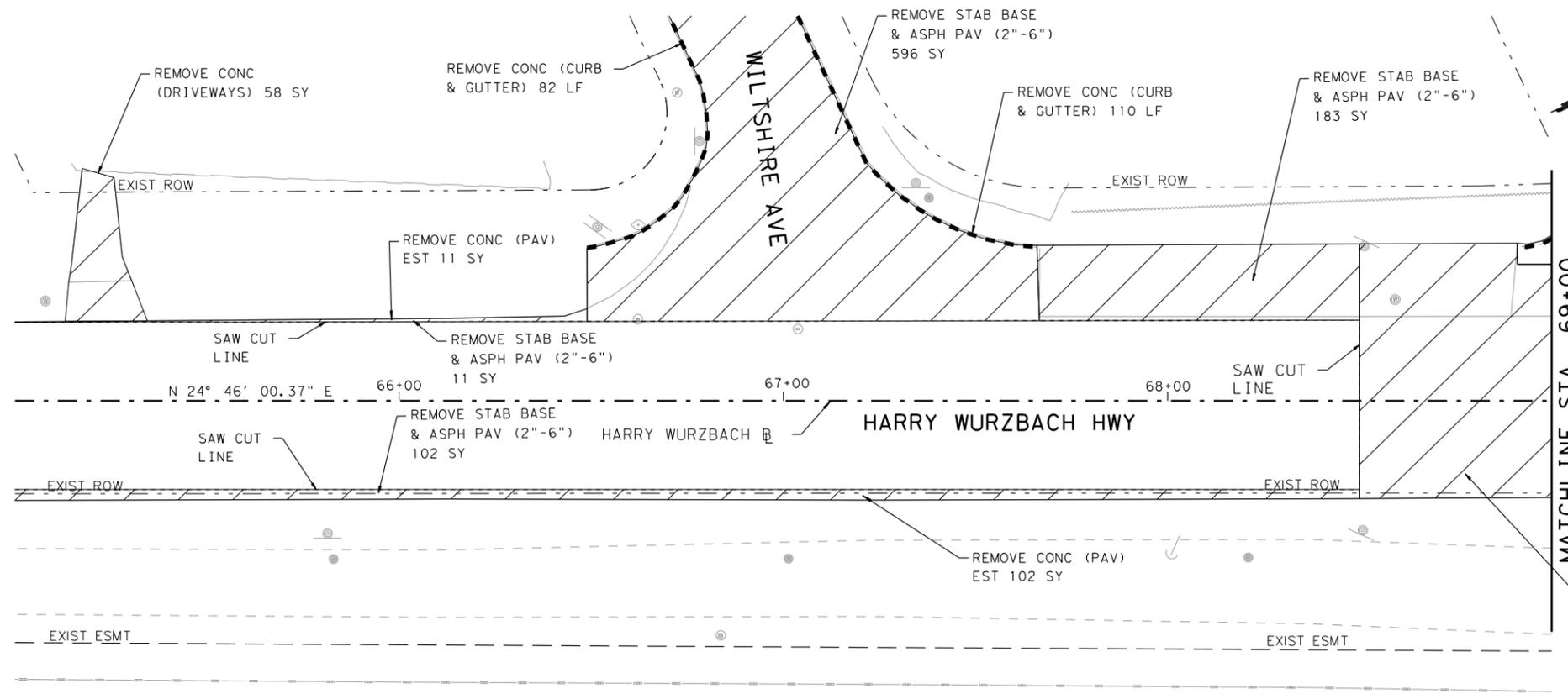
TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRA TECH.COM

 Texas Department of Transportation

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

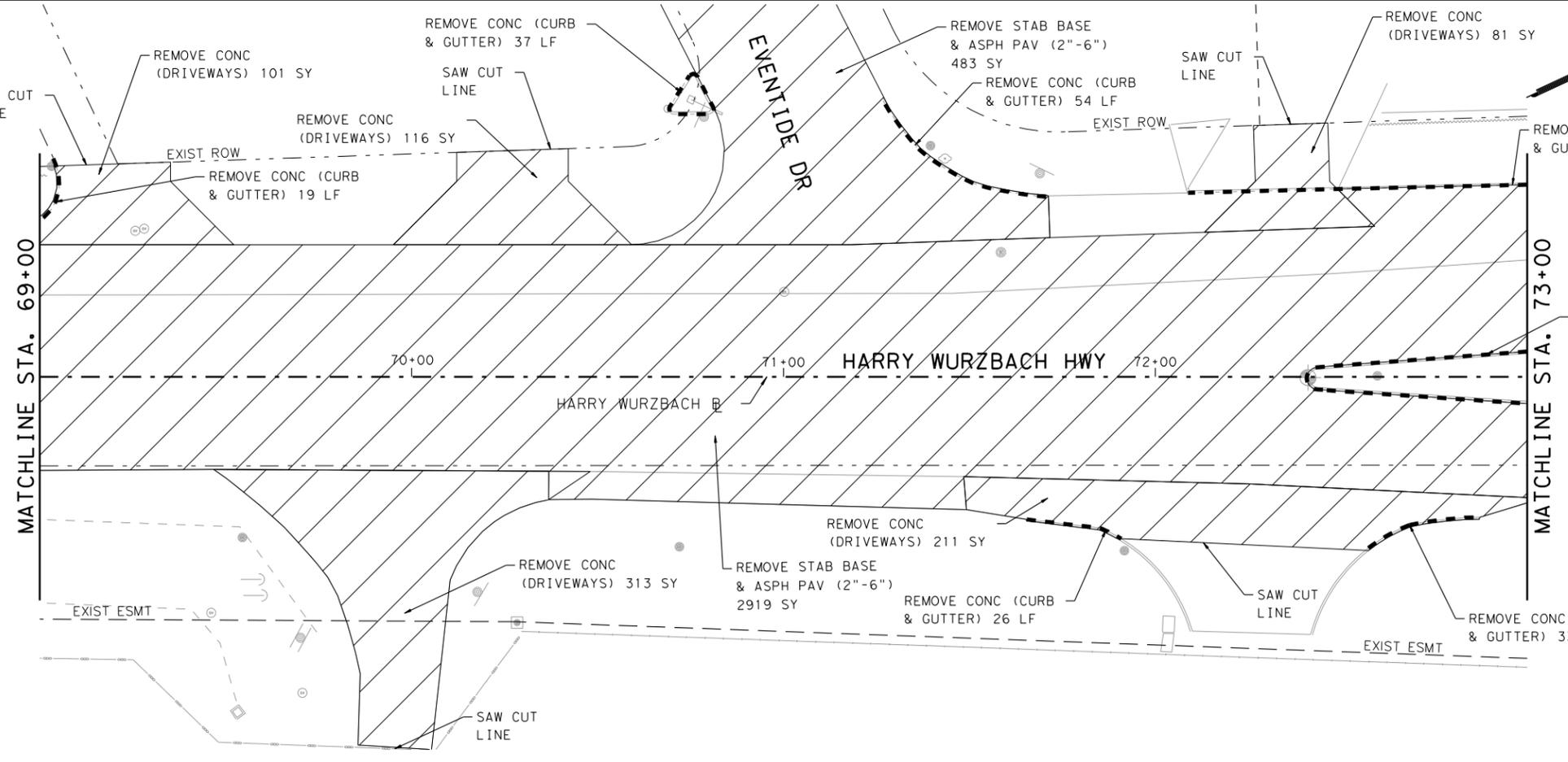
REMOVAL DETAIL SHEETS
 WINANS RD. & HARRY WURZBACH INTERSECTION

FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 133



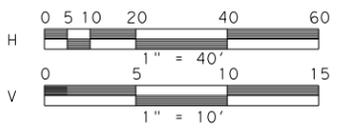
REMOVAL LEGEND

- FULL DEPTH REMOVAL 
- CONC SIDEWALK REMOVAL 
- SAWCUT LINE 
- CURB AND GUTTER REMOVAL 



CSJ 915-12-480

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	113.00
REMOVING CONC (DRIVEWAYS)	SY	880.00
REMOVING CONC (CURB OR GUTTER)	LF	575.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALL)	CY	0.00
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	4,788.00



4 OF 4

TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM

 Texas Department of Transportation

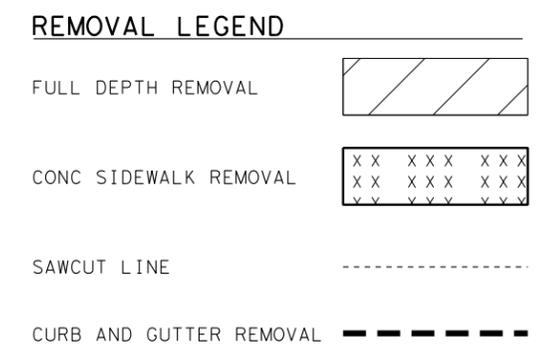
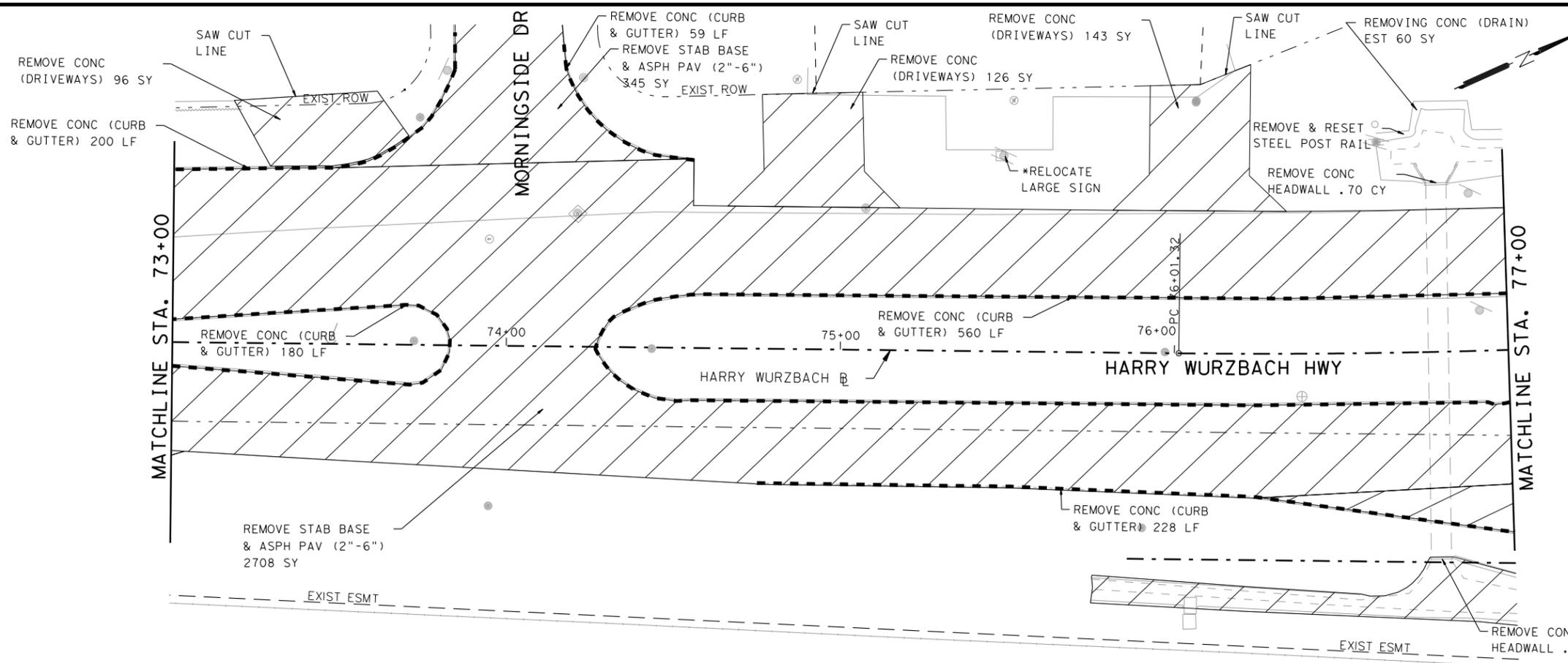
CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS
 WINANS RD. & HARRY WURZBACH INTERSECTION

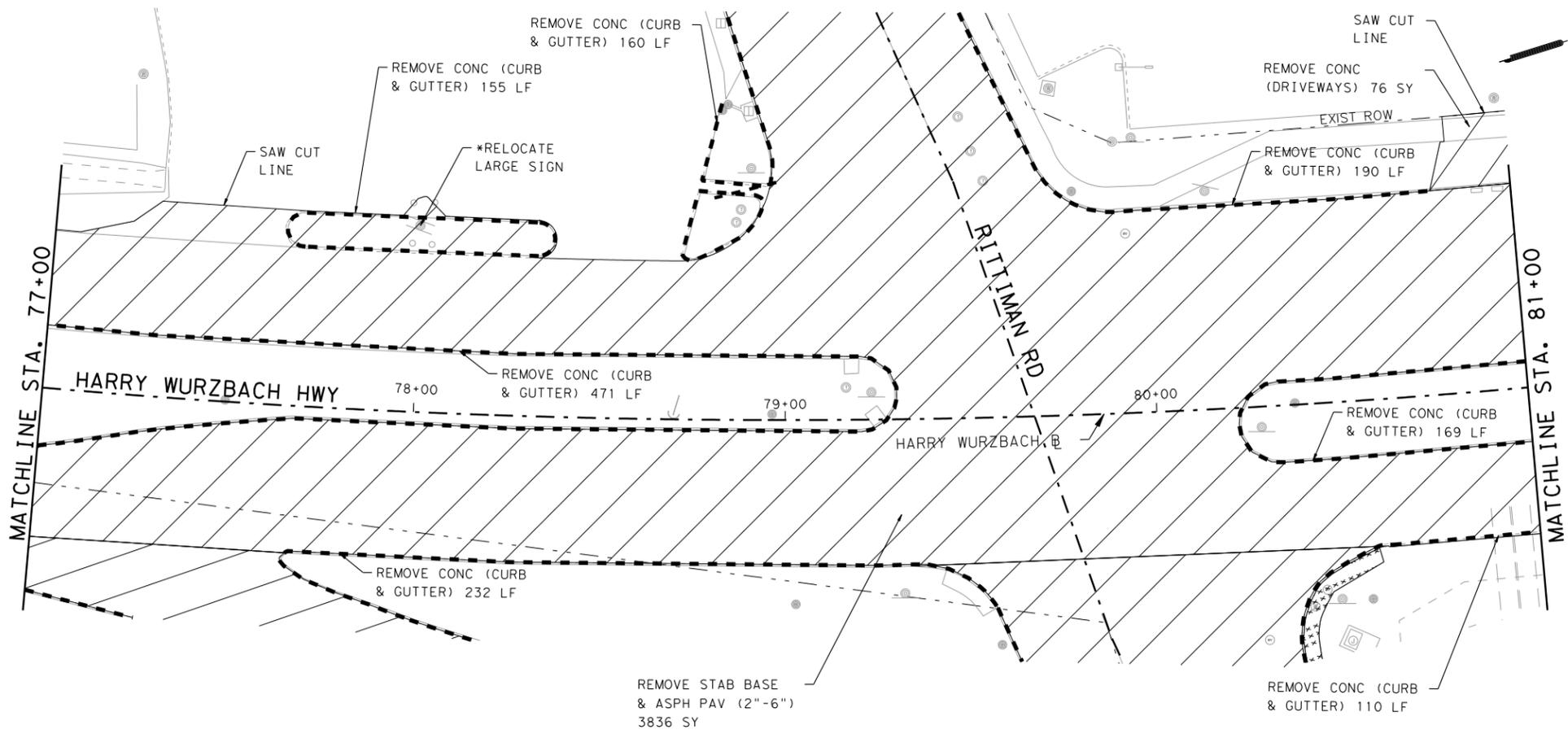
FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 134

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rm\01 - 07.dgn 7/31/2011 10:33:35 PM

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rm\01 - 08.dgn 7/31/2011 10:33:53 PM

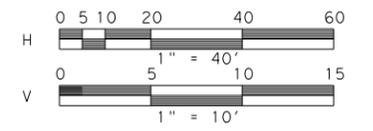


* NOTE: CONTRACTOR TO PROVIDE ENGINEERING DRAWINGS AND CALCULATIONS FOR DESIGN OF LARGE SIGN AND FOUNDATION RELOCATION. RELOCATION TO BE PAID UNDER SIGNING AND PAVEMENTMARKING SHEET 215.



CSJ 915-12-480

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	0.00
REMOVING CONC (DRIVEWAYS)	SY	441.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	2,714.00
REMOVING CONC (DRAIN)	SY	60.00
REMOVING CONC (HEADWALL)	CY	1.33
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	6,889.00



1 OF 4

TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM

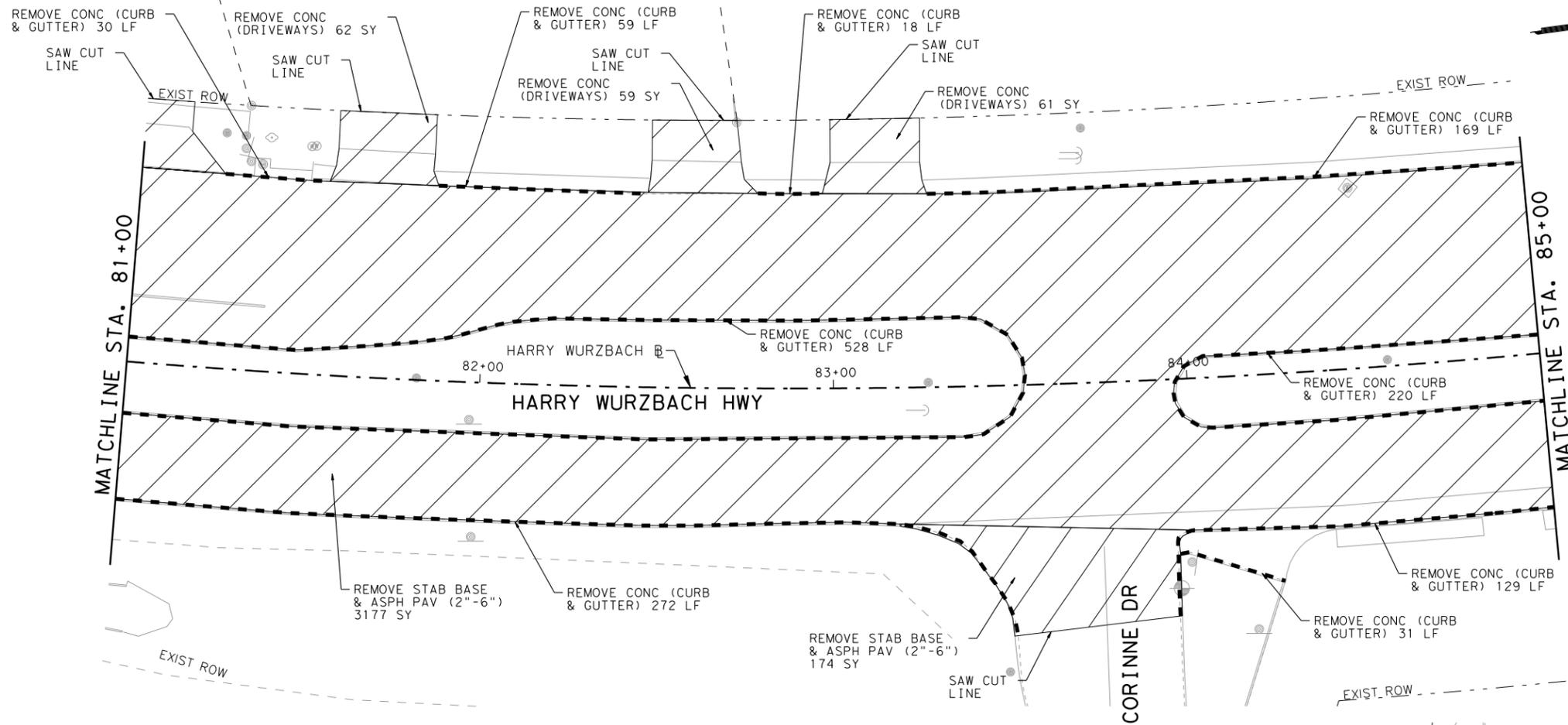
Texas Department of Transportation
 © 2011

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS
 RITTIMAN RD. & HARRY WURZBACH INTERSECTION

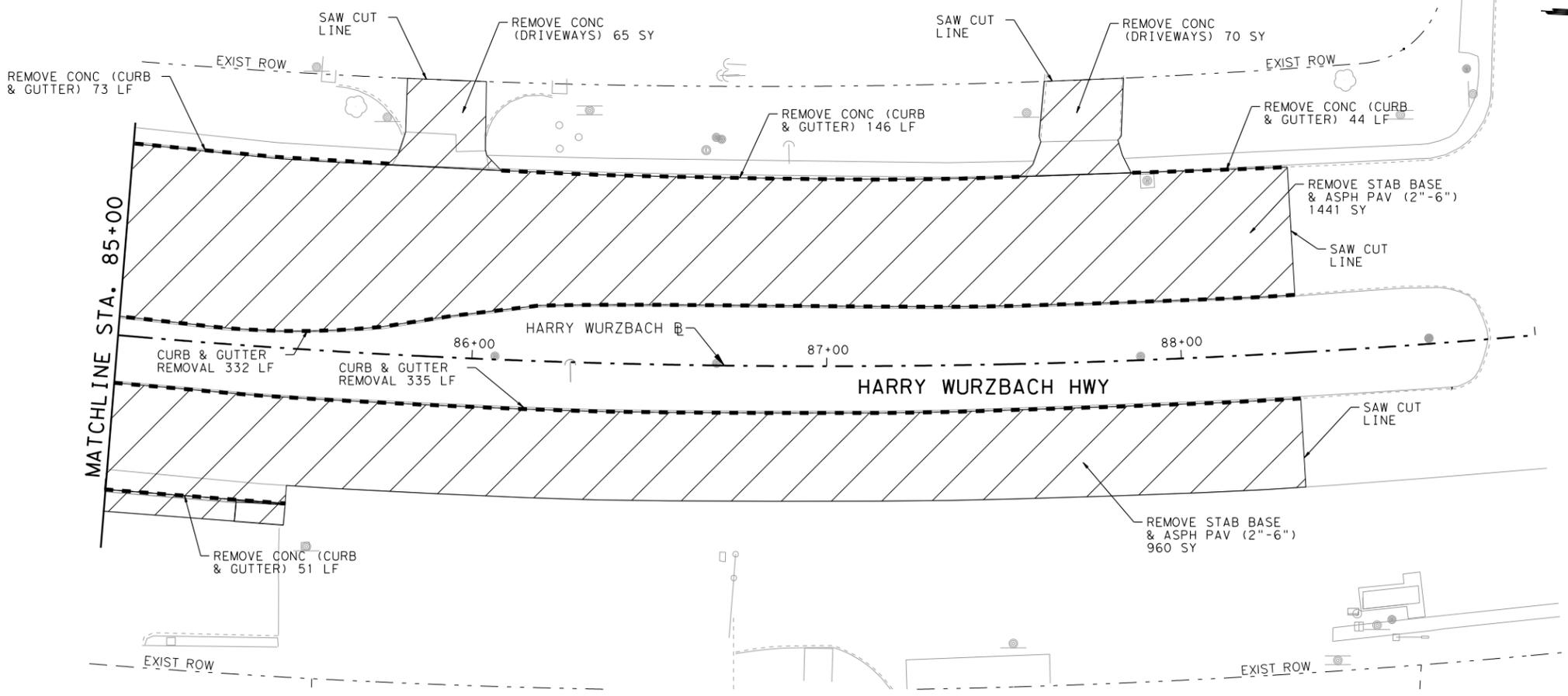
FINAL SUBMITTAL	PROJECT NO.: 915-12-470, etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 135

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rmv01 - 09.dgn 7/31/2011 10:34:02 PM

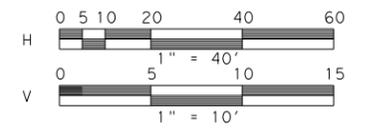


REMOVAL LEGEND

- FULL DEPTH REMOVAL 
- CONC SIDEWALK REMOVAL 
- SAWCUT LINE 
- CURB AND GUTTER REMOVAL 



SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	0.00
REMOVING CONC (DRIVEWAYS)	SY	317.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	2,437.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALL)	CY	0.00
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	5,752.00



2 OF 4

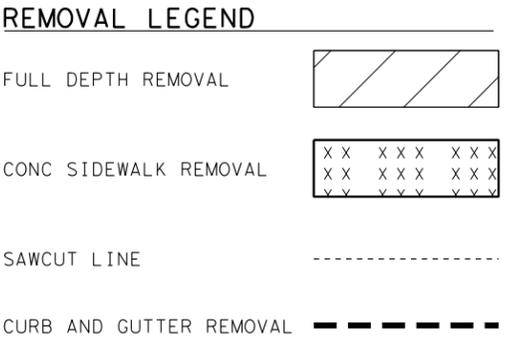
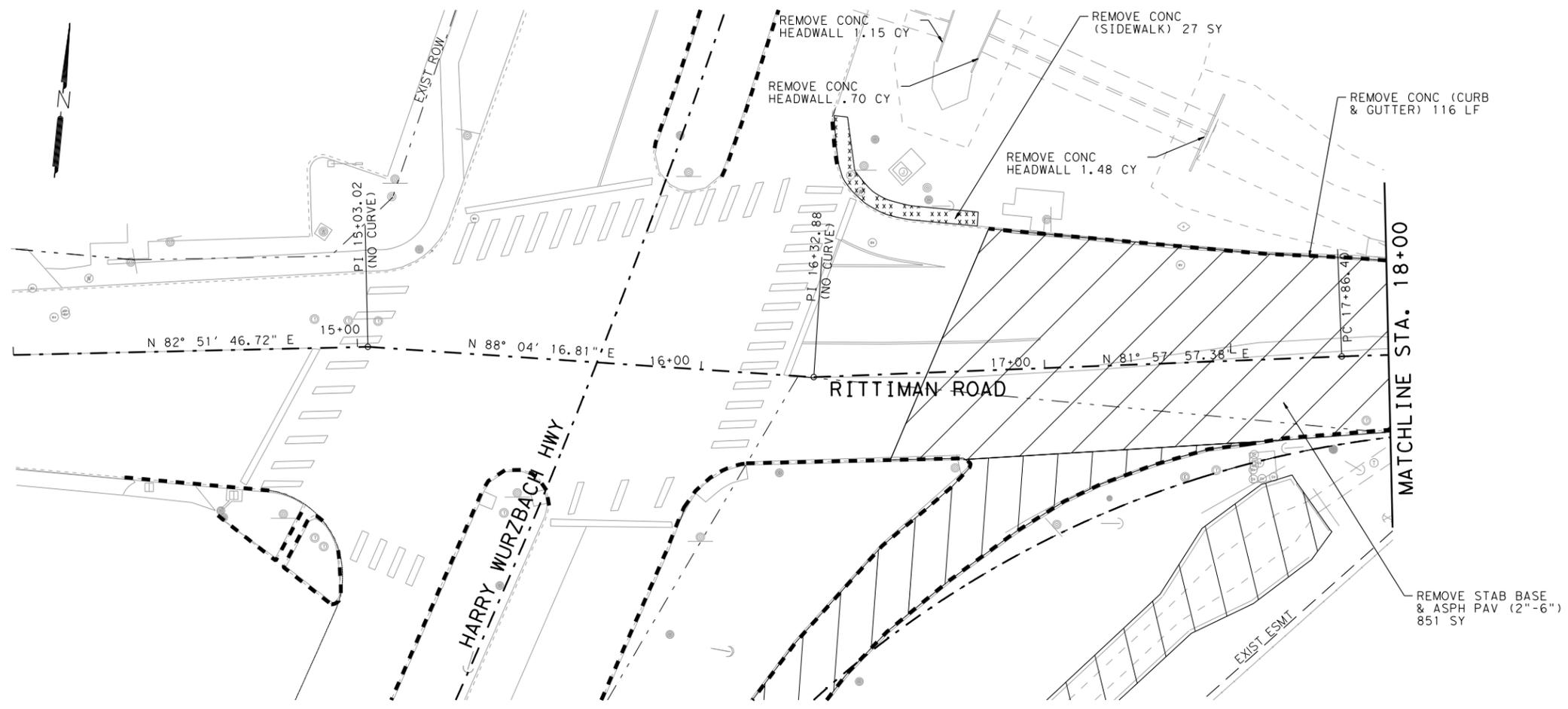
TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM

 Texas Department of Transportation

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

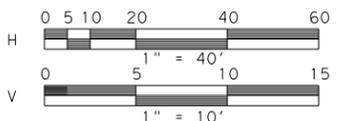
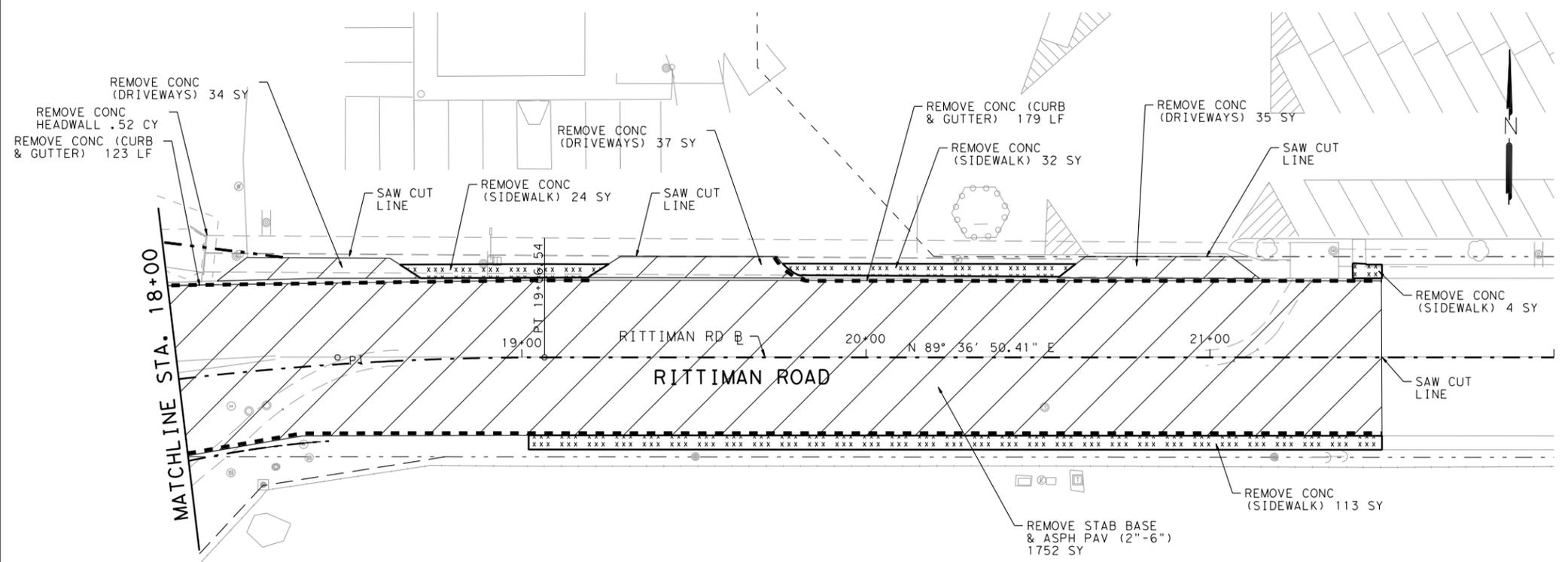
REMOVAL DETAIL SHEETS
 RITTIMAN RD. & HARRY WURZBACH INTERSECTION

FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 136



CSJ 915-12-480

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	0.00
REMOVING CONC (DRIVEWAYS)	SY	106.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	418.00
REMOVING CONC (DRAIN)	SY	0.00
REMOVING CONC (HEADWALL)	CY	2.85
REMOVING CONC (SIDEWALK OR RAMP)	SY	199.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	2,603.00



3 OF 4

TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM

Texas Department of Transportation

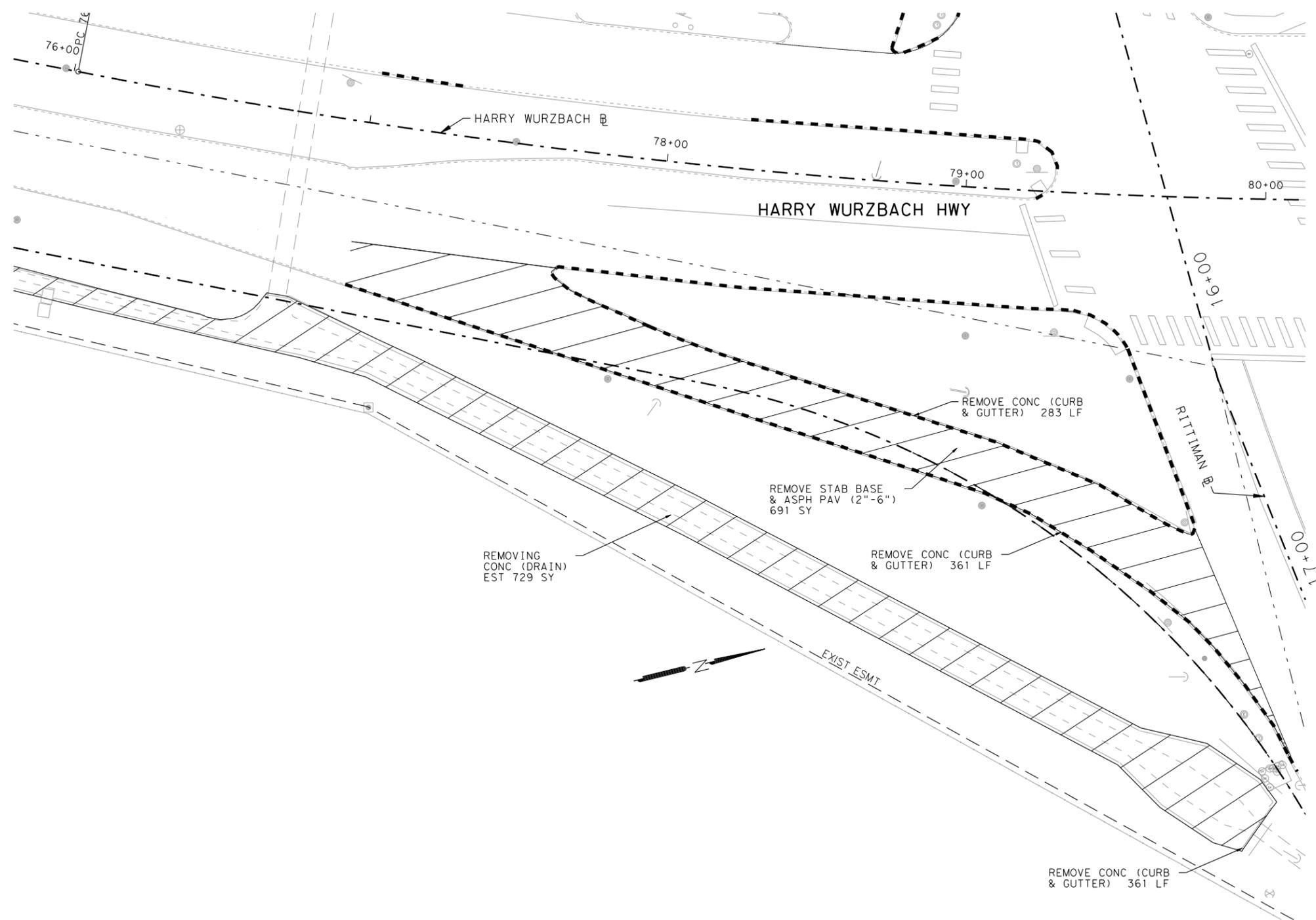
CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS
 RITTIMAN RD. & HARRY WURZBACH INTERSECTION

FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 137

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rmv01 - 10.dgn 7/31/2011 10:34:12 PM

p:\25774\131-25774-09052\cadd\sheetfiles\015-05_rmv01 - 11.dgn 7/31/2011 10:34:20 PM



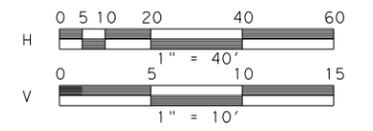
REMOVAL LEGEND

FULL DEPTH REMOVAL	
CONC SIDEWALK REMOVAL	
SAWCUT LINE	
CURB AND GUTTER REMOVAL	



CSJ 915-12-480

SHEET TOTALS		
DESCRIPTION	UNIT	TOTAL
REMOVING CONC (PAV)	SY	0.00
REMOVING CONC (DRIVEWAYS)	SY	0.00
REMOVING CONC (CURB OR CURB & GUTTER)	LF	644.00
REMOVING CONC (DRAIN)	SY	729.00
REMOVING CONC (HEADWALL)	CY	1.68
REMOVING CONC (SIDEWALK OR RAMP)	SY	0.00
REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	691.00



4 OF 4

TETRA TECH
 TBPE F-3924
 700 N. ST. MARY'S STREET SAN ANTONIO, TX 78205
 TELEPHONE #: (210) 226-2922 FAX #: (210) 226-8497 WEBSITE: WWW.TETRATECH.COM

Texas Department of Transportation
 © 2011

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
 FORT SAM HOUSTON TRANSPORTATION PROJECTS

REMOVAL DETAIL SHEETS
 RITTIMAN RD. & HARRY WURZBACH INTERSECTION

FINAL SUBMITTAL	PROJECT NO.: 915-12-470,etc	DATE: 7/31/2011
DRWN. BY: RPR	DSGN. BY: JDH	CHKD. BY: RE
		SHEET NO.: 138