CONCRETE CAP
12" CLSM or 6" CLASS 'S' or
CLASS 'P' WITH 6" OF AB

SAW CUT EXISTING ASPHALT
FULL DEPTH BOTH SIDES
(PATCH AREA)

NOTES:
FOR TRENCH WIDTHS EXCEEDING 4' REFER TO
TYPE 2, SHEET 2 STD DTL 216.
PATCH AREAS EXCEEDING 4' IN WIDTH SHALL
CONFORM TO MORATORIUM PAVEMENT REPAIR
COT STD DTL 218.

"T TOP" TYPE TRENCH PATCH REQUIRED FOR ALL STREETS
ON THE MS&R MAP AND FOR ALL WATER CARRYING STREETS.
WATER CARRYING STREETS ARE THOSE THAT DO NOT HAVE
CATCH BASINS OR UNDERGROUND STORM DRAINS.

ALL SURVEY MONUMENTS MUST BE IDENTIFIED AND
REFERENCED BY A REGISTERED LAND SURVEYOR PRIOR TO
TRENCHING AND PAVING AND SHALL BE REPLACED AT THE
SAME LOCATION BY AN RLS ACCORDING TO STATE LAW (ARS
33-103). THE CITY OF TUCSON SURVEY SECTION WILL
REFERENCE SURVEY MONUMENTS PRIOR TO COMMENCEMENT OF
WORK AND REPLACE THEM FOLLOWING COMPLETION OF WORK
AT THE EXPENSE OF THE PARTY DISTURBING SAID MONUMENT.

PAVEMENT:

ARTERIAL STREETS – 6" MIN. OR MATCH EXISTING
THICKNESS WHICHEVER IS GREATER.

LOCAL STREETS – 3" MIN. OR MATCH EXISTING
THICKNESS WHICHEVER IS GREATER.

MORATORIUM STREETS – PAG 2 (CITY MIX) WITH TR-22

NON-MORATORIUM STREETS – PAG 2 (CITY MIX)

PAVEMENT SHALL BE SAW CUT, TACKED AND JOINED FOR THINNER SECTIONS

IF PAVEMENT IS ESPECIALLY THICK, THE PAVEMENT IN THE "T TOP" AREA CAN BE MILLED AND REPLACED WITH
3" OF AC INSTEAD OF REMOVING AND REPLACING THE ENTIRE PAVEMENT AREA, TO BE TACKED AND JOINED.

ALL MATERIALS SHALL BE TESTED FOR DENSITY AND CONFORMANCE TO PAG AND CITY OF TUCSON DTM
SPECIFICATIONS. THE NUMBER OF TESTS REQUIRED IS BASED UPON THE QUANTITY OF MATERIALS USED AND THE
NUMBER OF BATCHES REQUIRED.

TRENCH WILL NEED TO BE PLATED AND RECESSED INTO THE EXISTING STREET UNTIL COMPLETE AND LAND SHALL
BE RETURNED TO USERS AFTER WORK HOURS.

BACKFILL:

AGGREGATE BASE (AB) – CAN BE USED THE ENTIRE DEPTH OF THE "T TRENCH" AREA TO THE BOTTOM OF THE
"T TOP" AREA AND MUST MEET CURRENT PAG STANDARDS AND SPECIFICATIONS. AB MUST BE COMPACTED TO
100% OF THE RESPECTIVE MATERIAL MAXIMUM DENSITY.

CONCRETE CAP – 12" THICK IF CLSM IS USED, 6" THICK IF CLASS 'S' OR CLASS 'P' USED WITH 6" OF AB. THE
LIMITS OF BACKFILL NEED ONLY GO TO THE BOTTOM OF THE "T TOP" AREA OF THE PAVEMENT PATCH. A 6"
THICK CONCRETE CAP OR CONCRETE ENCASEMENT OF THE CONDUIT SHALL BE USED AS REQUIRED UNDER
SECTION 8 FOR UTILITIES INSTALLED UNDERGROUND THAT HAVE LESS THAN 24" OF COVER.

FULL DEPTH CLSM MATERIAL CAN BE USED TO THE BOTTOM OF THE AB LAYER IN THE "T TOP" AREA.

ISSUED:
01/93

REVISED:
07/21

STANDARD DETAIL
"T TOP" TYPE
TRENCH PATCH -
PAVED AREA

DETAIL NO.
216
M-2021-002
SHEET 1 OF 5
NOTES:
FOR TRENCH WIDTHS 4' OR LESS REFER TO "T-TOP" TYPE DETAIL, SHEET 1.

PATCH AREAS EXCEEDING 4' IN WIDTH SHALL CONFORM TO MORATORIUM PAVEMENT REPAIR COT STD DTL 218.

FOR TRENCH WHERE PORTLAND CEMENT CONCRETE (PCC) PAVEMENT EXISTS, REFER TO TYPE 3 DETAIL, SHEET 3.

ALL SURVEY MONUMENTS MUST BE IDENTIFIED AND REFERENCED BY A REGISTERED LAND SURVEYOR PRIOR TO TRENCHING AND PAVING AND SHALL BE REPLACED AT THE SAME LOCATION BY AN RLS ACCORDING TO STATE LAW (ARS 33-103). THE CITY OF TUCSON SURVEY SECTION WILL REFERENCE SURVEY MONUMENTS PRIOR TO COMMENCEMENT OF WORK AND REPLACE THEM FOLLOWING COMPLETION OF WORK AT THE EXPENSE OF THE PARTY DISTURBING SAID MONUMENT.

PAVEMENT:

ARTERIAL STREETS - 6" MIN. OR MATCH EXISTING THICKNESS WHICHEVER IS GREATER.

LOCAL STREETS - 3" MIN. OR MATCH EXISTING THICKNESS WHICHEVER IS GREATER.

MORATORIUM STREETS - PAG 2 (CITY MIX) WITH TR-22

NON-MORATORIUM STREETS - PAG 2 (CITY MIX)

PAVEMENT SHALL BE SAW CUT, TACKED AND JOINED FOR THINNER SECTIONS

ALL MATERIALS SHALL BE TESTED FOR DENSITY AND CONFORMANCE TO PAG AND CITY OF TUCSON DTM SPECIFICATIONS. THE NUMBER OF TESTS REQUIRED IS BASED UPON THE QUANTITY OF MATERIALS USED AND THE NUMBER OF BATCHES REQUIRED.

TRENCH WILL NEED TO BE PLATED AND RECESSED INTO THE EXISTING STREET UNTIL COMPLETE AND LAND SHALL BE RETURNED TO USERS AFTER WORK HOURS.

BACKFILL:

NATIVE - CAN BE USED WITH AGENCY APPROVAL AND MUST BE COMPACTED TO 95% MAX. DENSITY.

AGGREGATE BASE (AB) - CAN BE USED THE ENTIRE DEPTH OF THE TRENCH AREA AND MUST MEET CURRENT PAG STANDARDS AND SPECIFICATIONS. AB MUST BE COMPACTED TO 100% OF THE RESPECTIVE MATERIAL MAXIMUM DENSITY.

CONCRETE CAP - A 6" THICK CONCRETE CAP OR CONCRETE ENCASEMENT OF THE CONDUIT SHALL BE USED AS REQUIRED UNDER SECTION 8 FOR UTILITIES INSTALLED UNDERGROUND THAT HAVE LESS THAN 24" OF COVER.
NOTES:
FOR TRENCH WIDTHS 4’ OR LESS REFER TO "T TOP" TYPE DETAIL, SHEET 1.
FOR TRENCH WIDTHS EXCEEDING 4’ REFER TO TYPE 2, SHEET 2 STD DTL 216.

ALL SURVEY MONUMENTS MUST BE IDENTIFIED AND REFERENCED BY A REGISTERED LAND SURVEYOR PRIOR TO TRENCHING AND PAVING AND SHALL BE REPLACED AT THE SAME LOCATION BY AN RLS ACCORDING TO STATE LAW (ARS 33-103). THE CITY OF TUCSON SURVEY SECTION WILL REFERENCE SURVEY MONUMENTS PRIOR TO COMMENCEMENT OF WORK AND REPLACE THEM FOLLOWING COMPLETION OF WORK AT THE EXPENSE OF THE PARTY DISTURRING SAID MONUMENT.

PAVEMENT:

ARTERIAL STREETS – 6” MIN. OR MATCH EXISTING THICKNESS WHICHEVER IS GREATER.

LOCAL STREETS – 3” MIN. OR MATCH EXISTING THICKNESS WHICHEVER IS GREATER.

MORATORIUM STREETS – PAG 2 (CITY MIX) WITH TR-22

NON-MORATORIUM STREETS – PAG 2 (CITY MIX)

PAVEMENT SHALL BE SAW CUT, TACKED AND JOINED FOR THINNER SECTIONS

ALL MATERIALS SHALL BE TESTED FOR DENSITY AND CONFORMANCE TO PAG AND CITY OF TUCSON DTM SPECIFICATIONS. THE NUMBER OF TESTS REQUIRED IS BASED UPON THE QUANTITY OF MATERIALS USED AND THE NUMBER OF BATCHES REQUIRED.

TRENCH WILL NEED TO BE PLATED AND RECESSED INTO THE EXISTING STREET UNTIL COMPLETE AND LAND SHALL BE RETURNED TO USERS AFTER WORK HOURS.

BACKFILL:

AGGREGATE BASE (AB) – CAN BE USED THE ENTIRE DEPTH OF THE TRENCH AREA AND MUST MEET CURRENT PAG STANDARDS AND SPECIFICATIONS. AB MUST BE COMPACTED TO 100% OF THE RESPECTIVE MATERIAL MAXIMUM DENSITY.

CONCRETE CAP – A 6” THICK CONCRETE CAP OR CONCRETE ENCASEMENT OF THE CONDUIT SHALL BE USED AS REQUIRED UNDER SECTION 8 FOR UTILITIES INSTALLED UNDERGROUND THAT HAVE LESS THAN 24” OF COVER.
NOTE:
A 6" THICK CONCRETE CAP OR CONCRETE ENCASEMENT
OF THE CONDUIT SHALL BE USED AS REQUIRED UNDER
SECTION 8 FOR UTILITIES INSTALLED UNDERGROUND
THAT HAVE LESS THAN 24" OF COVER. CAP TO BE
PLACED AS DIRECTED BY PARENT ORGANIZATION SPECS.

ALL SURVEY MONUMENTS MUST BE IDENTIFIED
AND REFERENCED BY A REGISTERED LAND
SURVEYOR PRIOR TO TRENCHING AND PAVING AND
SHALL BE REPLACED AT THE SAME LOCATION BY
AN RLS ACCORDING TO STATE LAW (ARS
33-103). THE CITY OF TUCSON SURVEY SECTION
WILL REFERENCE SURVEY MONUMENTS PRIOR TO
COMMENCEMENT OF WORK AND REPLACE THEM
FOLLOWING COMPLETION OF WORK AT THE
EXPENSE OF THE PARTY DISTURBING SAID
MONUMENT.

TRENCH AREA

NATIVE BACKFILL TO
BE COMPACTED
TO 85% MAX.
DENSITY

1' ABOVE HIGHEST
EXISTING UTILITY

SHADING TO CONFORM
TO PARENT ORG.
specs.
NOTES:

1. MATERIAL AND COMPACTION REQUIREMENTS FOR PIPE BEDDING/SHADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE APPLICABLE UTILITY PIPE.
2. TRENCH BACKFILL SHALL COMMENCE 1 FOOT ABOVE THE TOP OF PIPE AND SHALL BE PER SECTION 923-2.
3. BACKFILL COMPACTION REQUIREMENTS SHALL BE PER SECTION 923-3.07.
4. THE 1 FOOT "T TOP" AREAS SHALL BE DELETED FOR TYPE 2 TRENCHES.
5. ABC SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 303-2.
6. PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1006.
7. ASPHALTIC TACK MATERIAL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1005.
8. ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 406 FOR THE TYPE SPECIFIED.
9. BITUMINOUS SURFACE TREATMENT (CHIP SEAL) SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 404 FOR THE TYPE SPECIFIED.
10. LOAD TRANSFER DOWELS FOR JOINTS TRANSVERSE TO THE ROADWAY CENTERLINE SHALL BE SMOOTH STEEL DOWELS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1003. DOWELS SHALL BE SIZED AND SPACED AS FOLLOWS:

<table>
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<tr>
<th>PCPP THICKNESS</th>
<th>PCPP SIZE</th>
<th>PCPP LENGTH</th>
<th>PCPP SPACING</th>
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<tbody>
<tr>
<td>6&quot; (150mm)</td>
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<td>15&quot; (380mm)</td>
<td>12&quot; (305mm)</td>
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<td>10&quot; (255mm)</td>
<td>#10 (NO. 32)</td>
<td>15&quot; (380mm)</td>
<td>12&quot; (305mm)</td>
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</tbody>
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11. DEFORMED TIE BARS SHALL BE USED IN TRENCH PATCHES LONGITUDINAL TO THE ROADWAY CENTERLINE WHEN THE TRENCH LENGTH IS GREATER THAN 50 FEET. TIE BARS SHALL BE 24 INCHES LONG, DEFORMED #4 BARS FOR PCPP LESS THAN 8 INCHES THICK AND #5 BARS IF 8 INCHES THICK OR MORE. TIE BARS SHALL BE PLACED 30 INCHES CENTER-TO-CENTER.

12. HOLES SHALL BE DRILLED 1 FOOT INTO THE EXISTING SLAB FOR THE TIE BARS AND 7 INCHES FOR DOWELS. HOLES SHALL BE DIAMETER SUFFICIENT TO ACCOMMODATE THE TIE BAR ANCHORAGE OR DOWEL CAP. TIE BARS SHALL BE ANCHORED WITH AN APPROVED HIGH VISCOSITY EPOXY.

13. IF THE CONCRETE SLAB REMAINING NEXT TO A LONGITUDINAL OR TRANSVERSE JOINT IS LESS THAN 6 FEET AT ITS NARROWEST WIDTH, REMOVE AND REPLACE THE EXISTING CONCRETE TO THE JOINT.