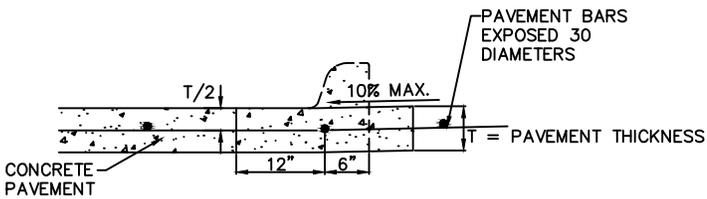
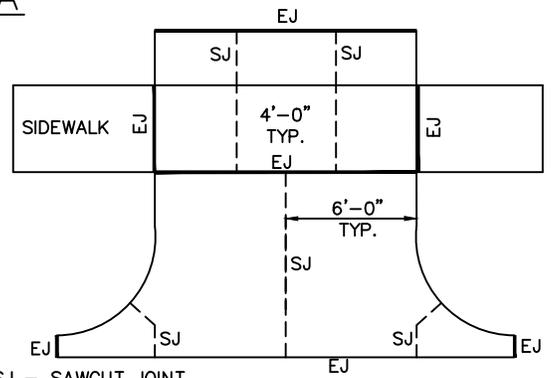


SECTION A-A



SECTION B-B



SJ - SAWCUT JOINT
EJ - EXPANSION JOINT

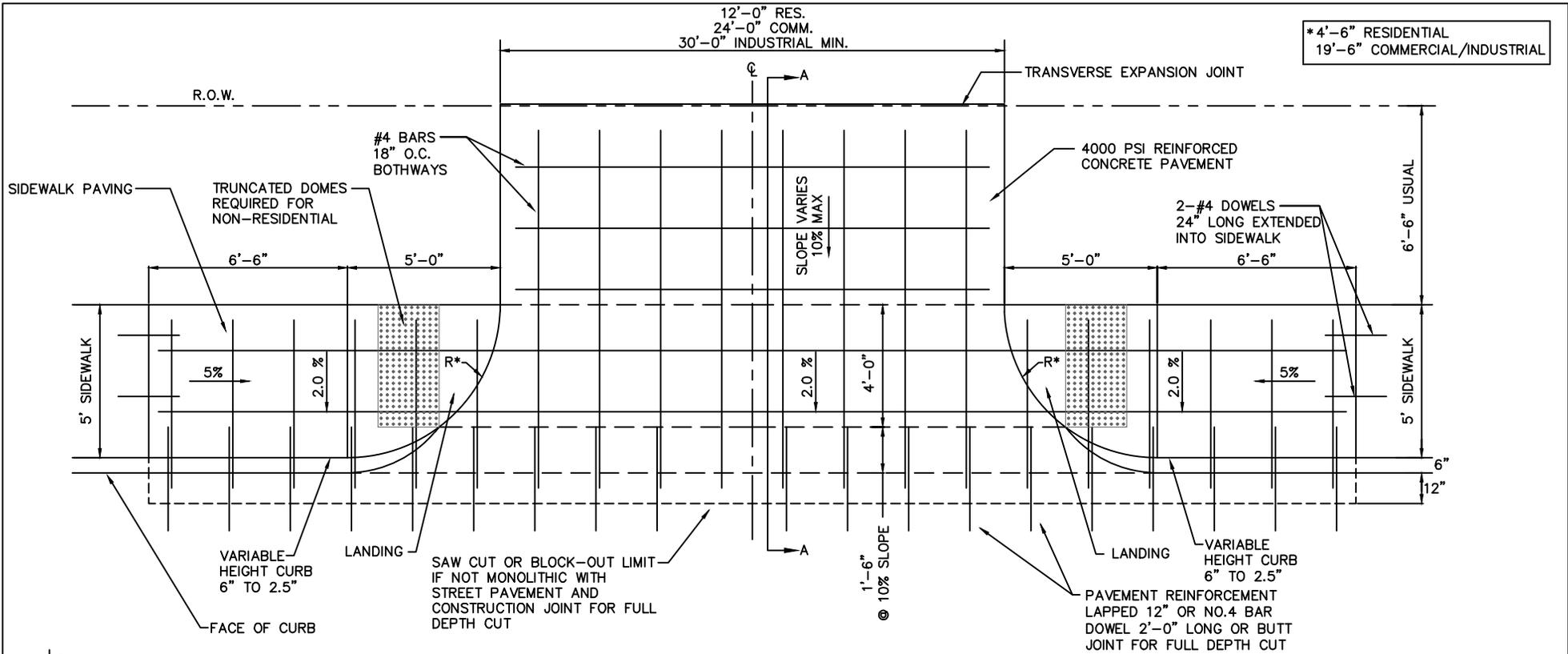
JOINTING PLAN

NOTE:
1. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.

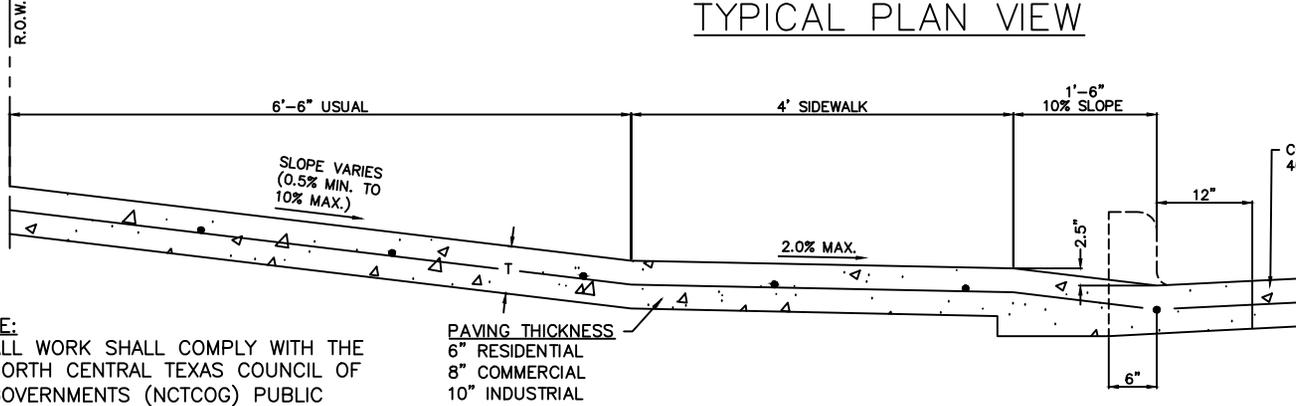


STANDARD CONSTRUCTION DETAIL
RESIDENTIAL/COMMERCIAL
DRIVEWAY RETURN TO STREET

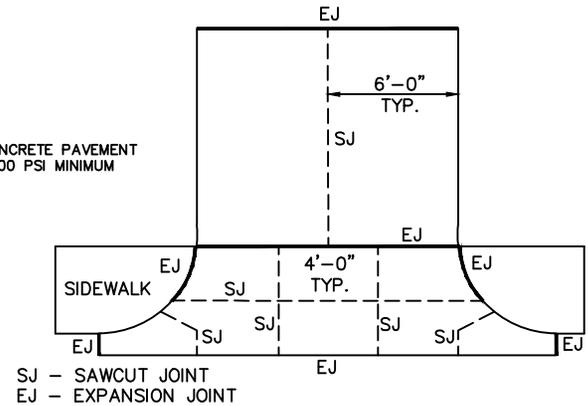
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P01



TYPICAL PLAN VIEW



TYPICAL CROSS SECTION A-A



JOINTING PLAN

NOTE:
 1. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.

PAVING THICKNESS
 6" RESIDENTIAL
 8" COMMERCIAL
 10" INDUSTRIAL

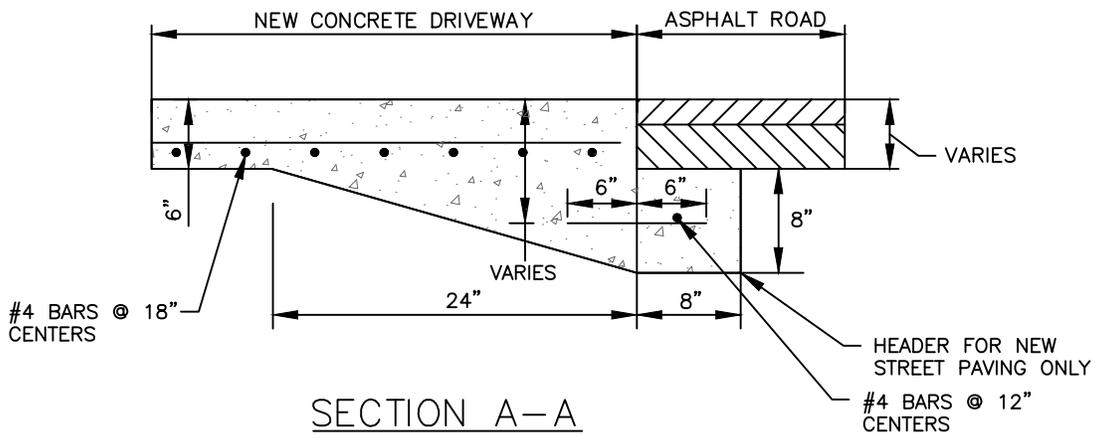
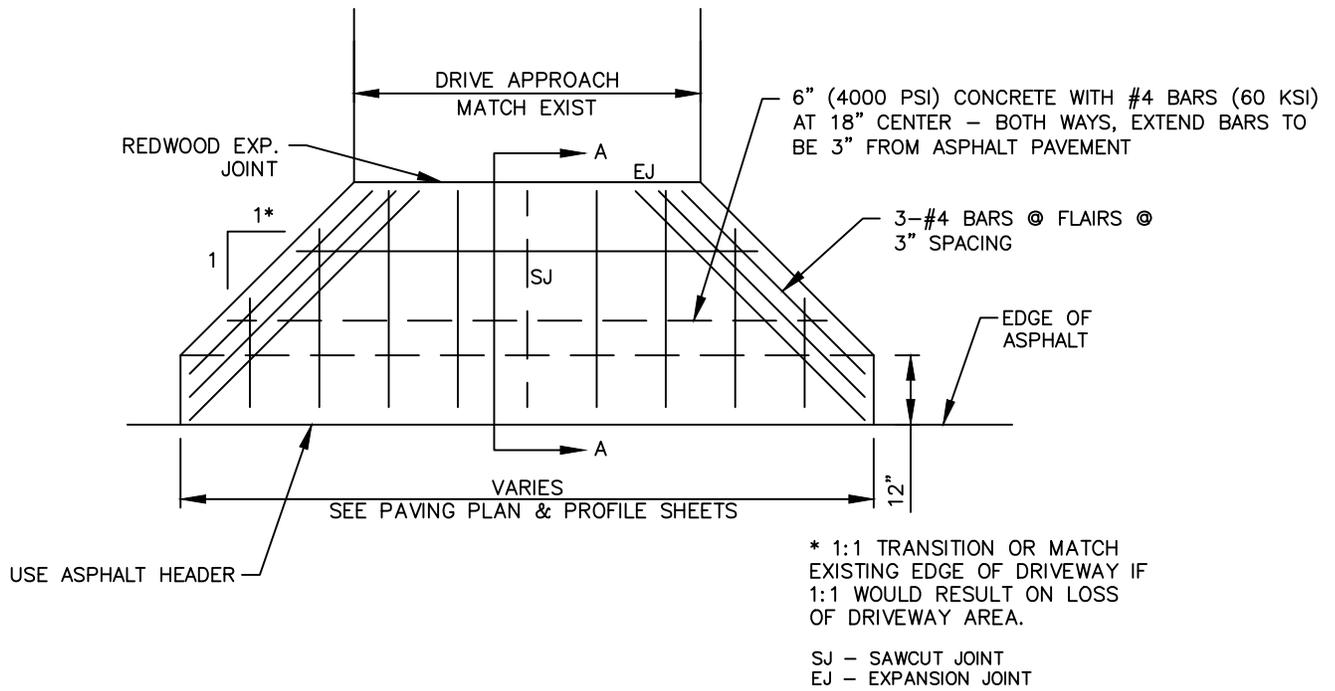
STANDARD CONSTRUCTION DETAIL

RESIDENTIAL/COMMERCIAL DRIVEWAY RETURN TO STREET
 WITH SIDEWALK AT BACK OF CURB

REVISED:

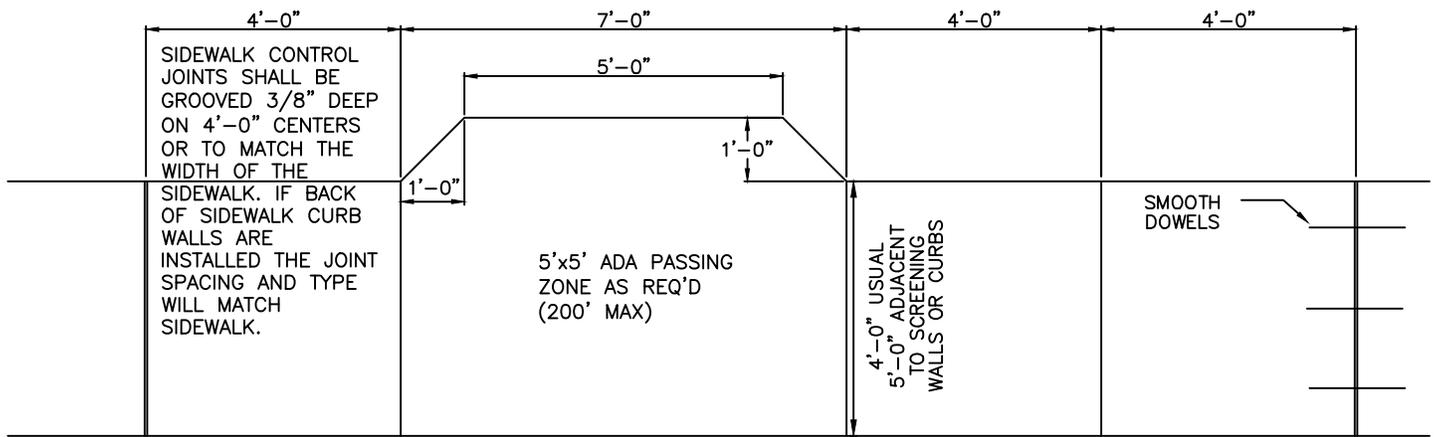
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NOTE:

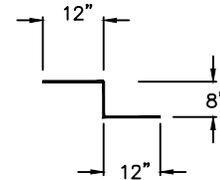
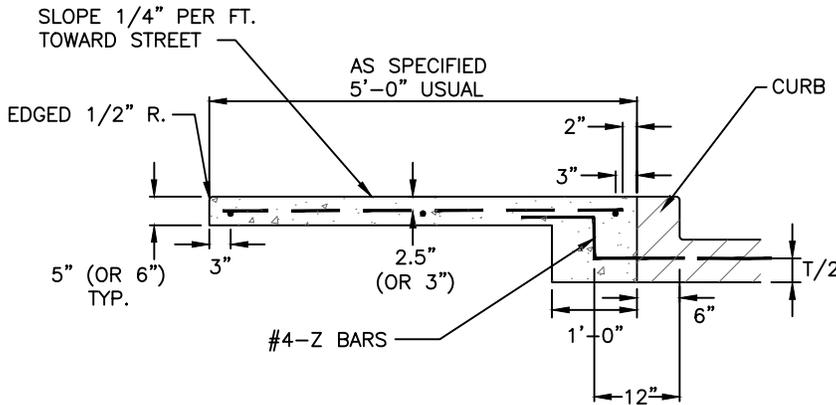
1. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.



CONCRETE TO BE A MIN. 4000 P.S.I.
 #3 BARS 18" O.C.E.W. (MAXIMUM SPACING)
 4' AND 5' SIDEWALKS SHALL BE 5" THICK.
 WIDER SIDEWALKS SHALL BE 6" THICK.

WALK SHALL BE 5' WHEN NEXT TO CURB,
 WIDER SIDEWALKS MAY BE REQUIRED WHEN
 DIRECTED BY THE CITY.

PLAN

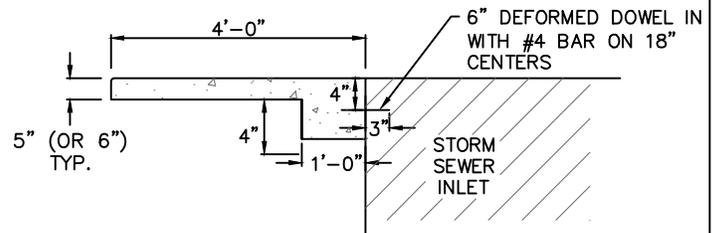


Z BARS

SIDEWALK ADJACENT TO CURB

SIDEWALK NOTES:

1. IF A 4' SIDEWALK IS WITHIN 18" OF THE BACK OF CURB, THE SIDEWALK SHALL BE PLACED ADJACENT TO THE BACK OF CURB AND WIDENED TO 5'.
2. IF A SIDEWALK IS WITHIN 12" OF A STORM SEWER INLET, THE SIDEWALK SHALL BE PLACED ADJACENT TO THE INLET AND DOWELED IN.
3. ALL SIDEWALK SHALL HAVE A LIGHT BROOM FINISH.
4. SIDEWALKS SHALL NOT EXCEED 5% RUNNING SLOPE UNLESS ACTING AS A RAMP.
5. SAND WILL NOT BE PERMITTED AS A BEDDING MATERIAL, USE 2" OF 3/8" CRUSHED LIMESTONE OR FLEXBASE.
6. SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY.
7. MINIMUM GRADE OF REINFORCING STEEL IS TO BE ASTM GRADE 60. MINIMUM COVER OF ALL REINFORCING BARS IS 2".
8. EXPANSION JOINTS SHALL BE SEALED.
9. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.
10. CHAMFER ALL EXPOSED CORNERS.



SIDEWALK ADJACENT TO INLET

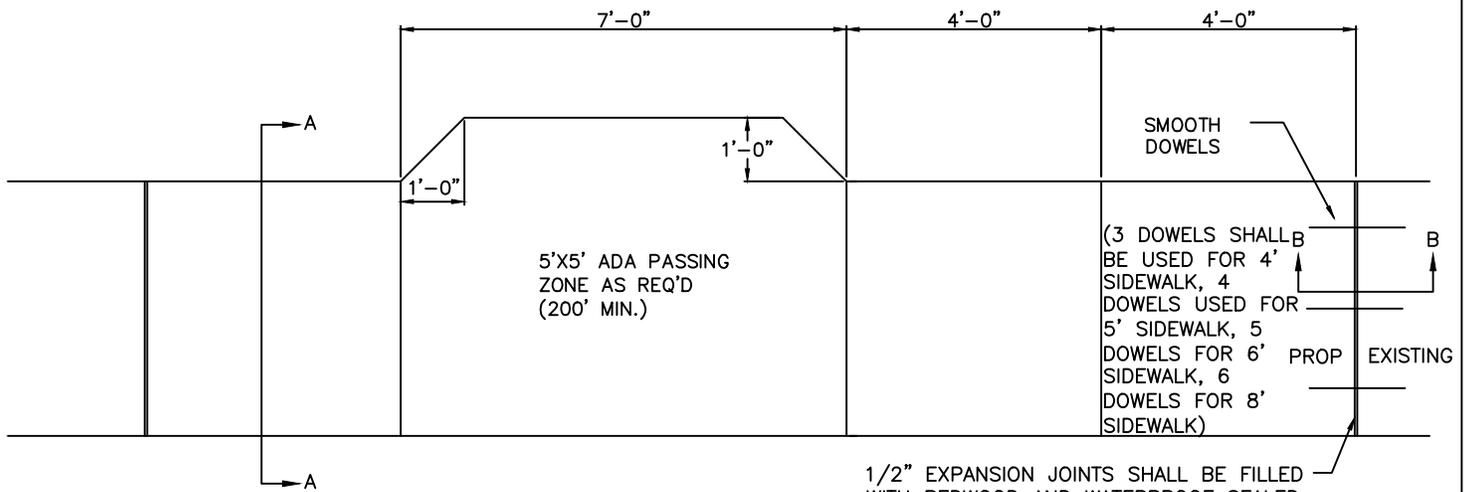
STANDARD CONSTRUCTION DETAIL

SIDEWALK DETAILS

REVISED:

P04

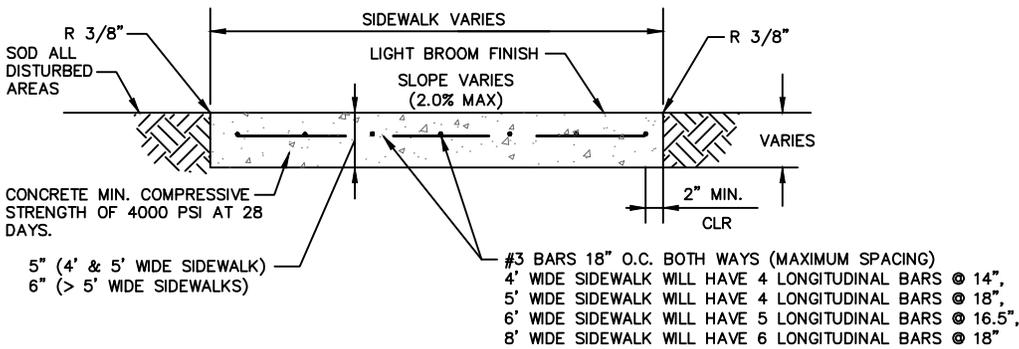




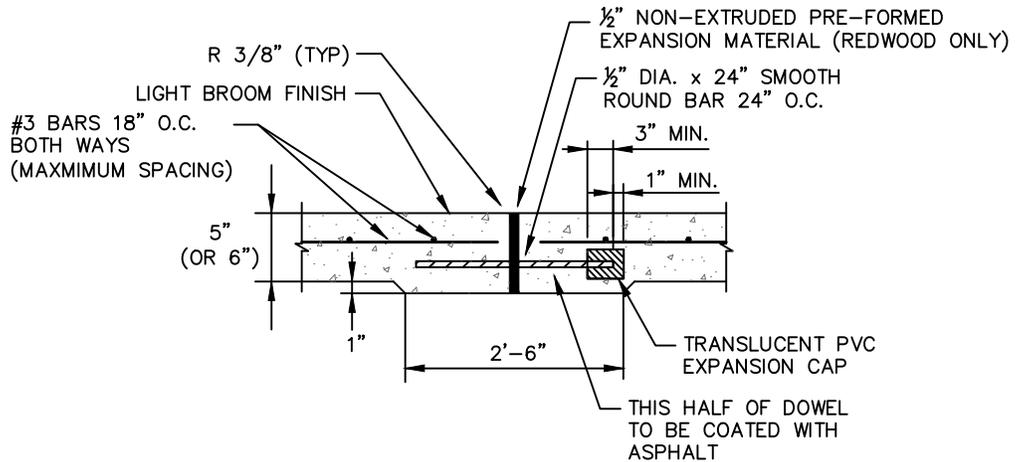
CONCRETE TO BE A MIN. 4000 P.S.I.
 #3 BARS 18" O.C.E.W. (MAXIMUM SPACING)
 4' AND 5' SIDEWALKS SHALL BE 5" THICK.
 WIDER SIDEWALKS SHALL BE 6" THICK.

PLAN

1/2" EXPANSION JOINTS SHALL BE FILLED WITH REDWOOD AND WATERPROOF SEALED AS SHOWN ON TRANSVERSE EXPANSION JOINT DETAIL. JOINTS SHALL BE SPACED AT EVERY SIXTH JOINT. FOR 4' SIDEWALK, JOINT SPACING = 4'x6' = 24'. FOR 5' SIDEWALK, JOINT SPACING = 5'x6' = 30'. WIDER SIDEWALKS WILL BE SIMILAR. IF BACK OF SIDEWALK CURB WALLS ARE INSTALLED THE JOINT SPACING AND TYPE WILL MATCH SIDEWALK.



SECTION A-A



SECTION B-B

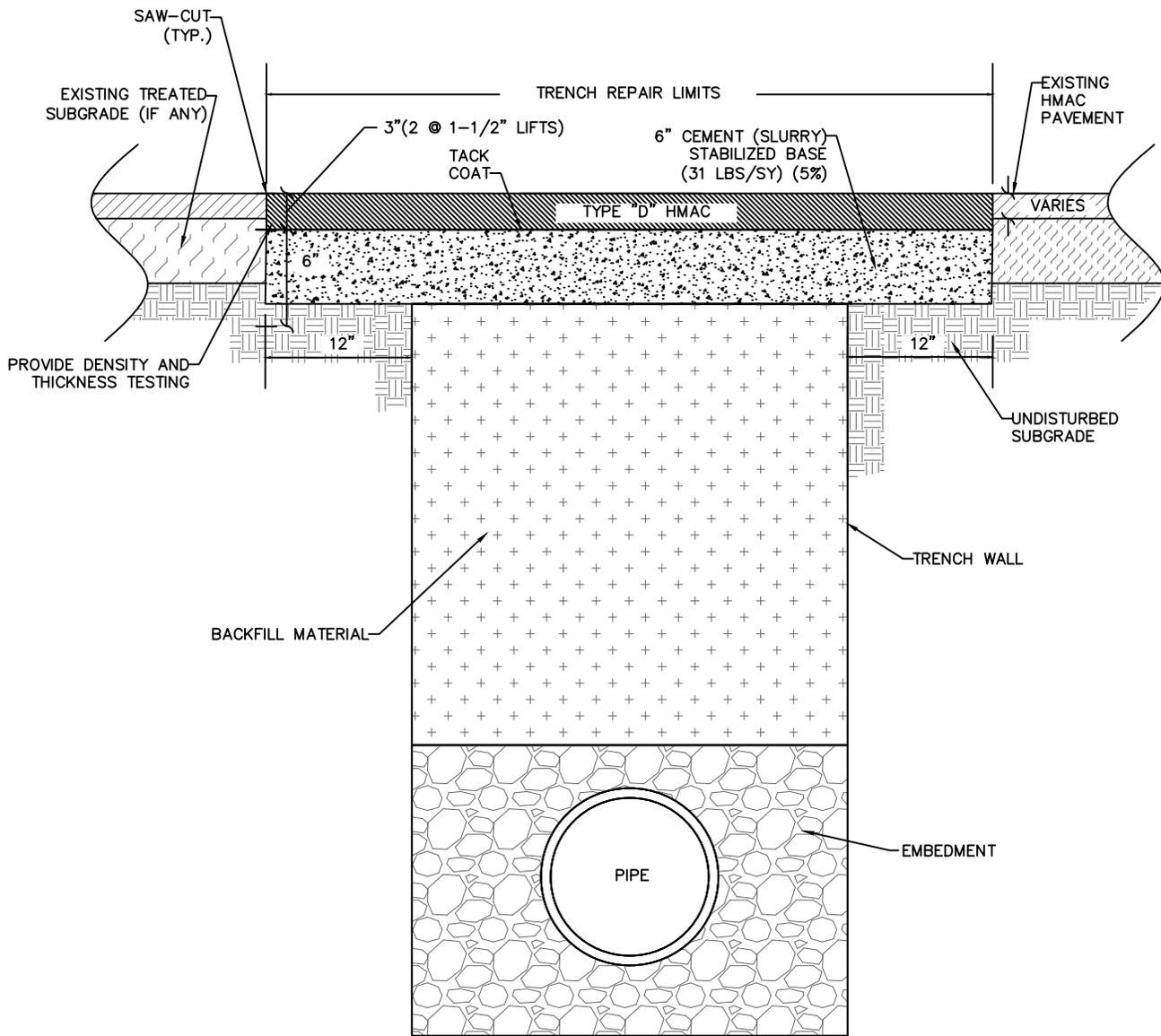
(TRANSVERSE EXPANSION JOINT DETAIL)

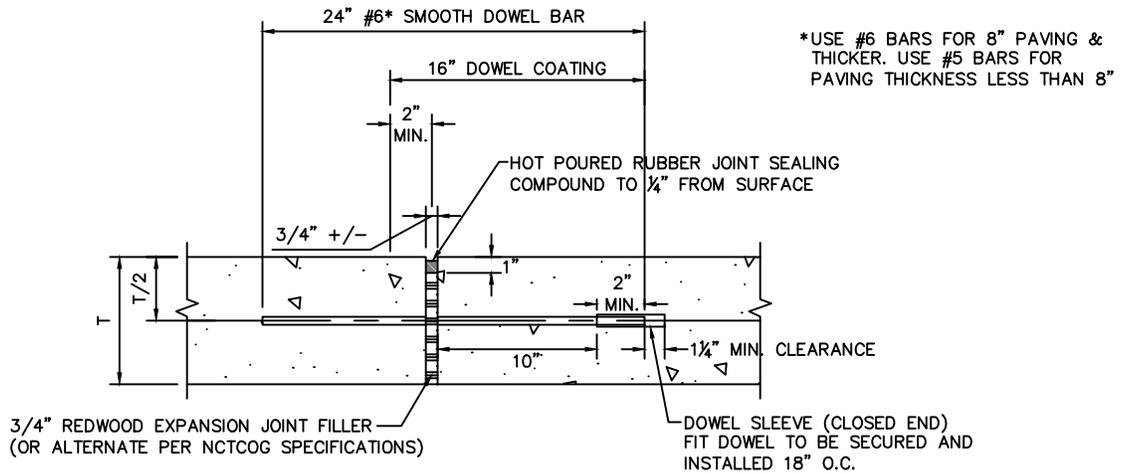


STANDARD CONSTRUCTION DETAIL
 SIDEWALK DETAILS CONT.

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P04A



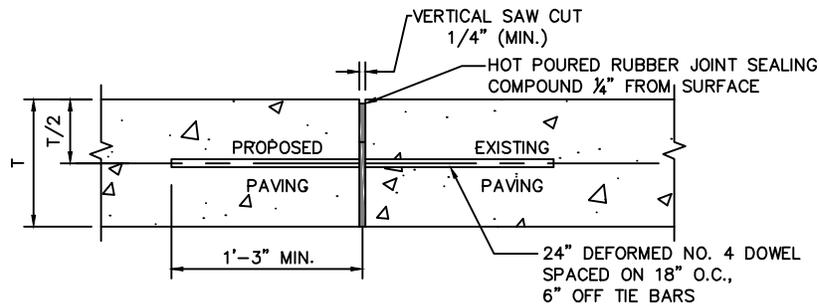


NOTE:
DOWELS & REINFORCING BARS SHALL BE SUPPORTED BY A BASKET OR OTHER APPROVED DEVICE

TRANSVERSE EXPANSION JOINT

EXPANSION JOINTS (SPACED 400 FT. MAXIMUM, LOCATE AT STRUCTURES, INTERSECTIONS, P.C.'S, AND P.T.'S)

T=PAVEMENT THICKNESS

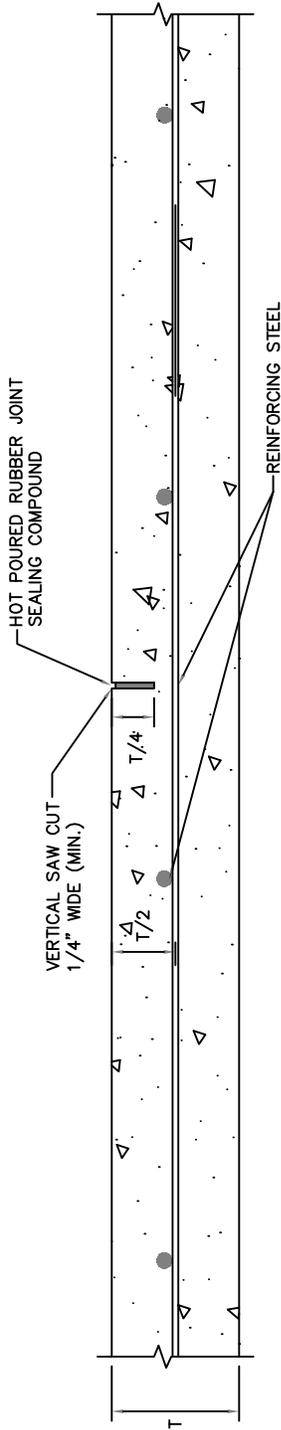


NOTES:

T=PAVEMENT THICKNESS

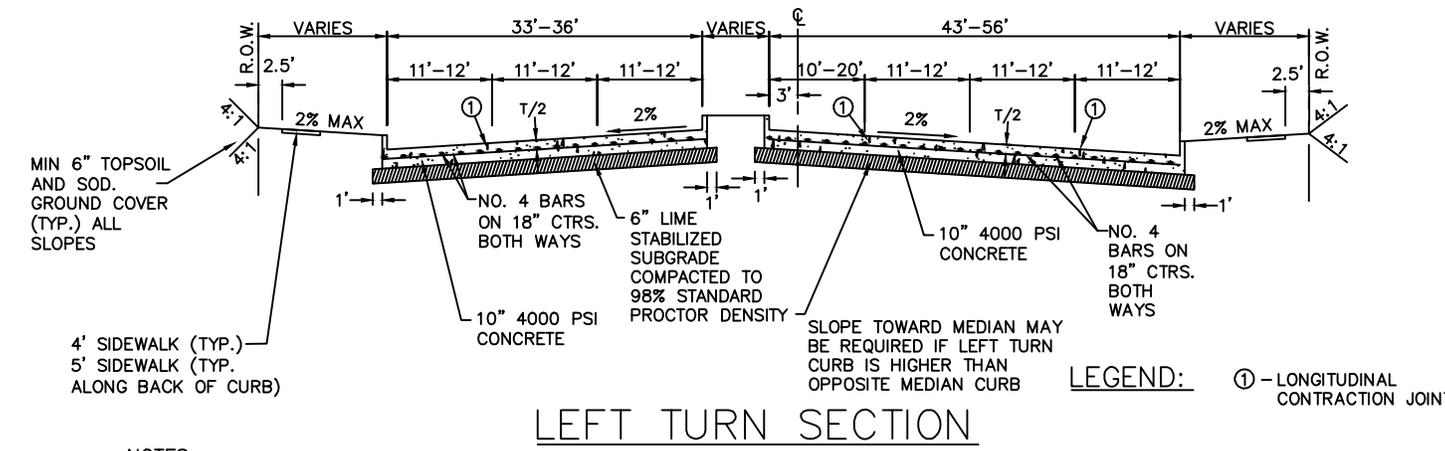
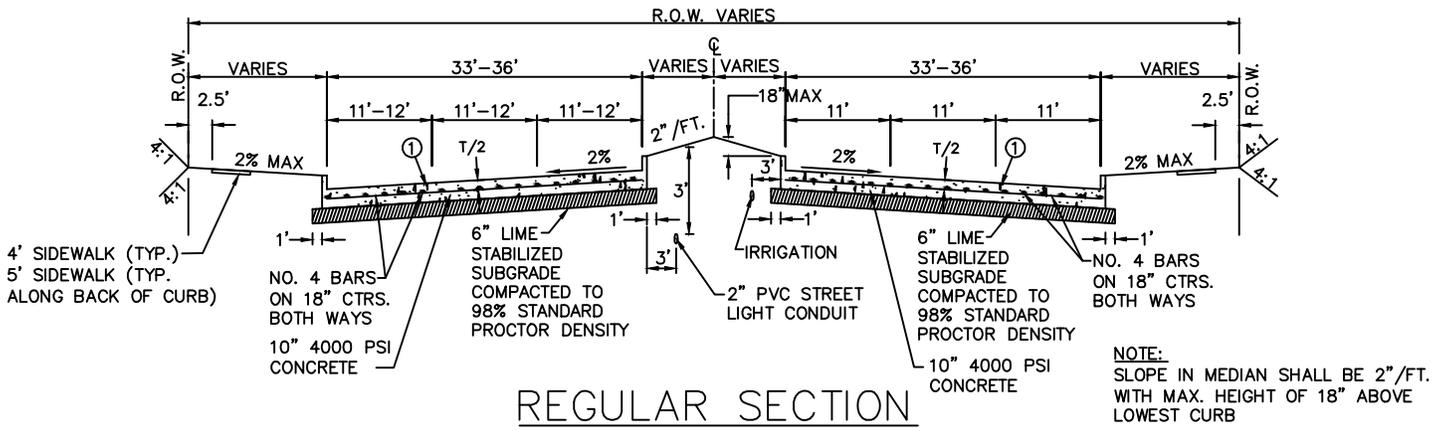
1. MACHINE DRILL HOLE INTO EXISTING PAVING FOR DOWEL BAR INSERTION. FILL HOLE WITH ENOUGH EPOXY TO COMPLETELY FILL VOID.
2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
3. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.
4. BACKER ROD SHALL BE USED WITH HOT POURED RUBBER JOINT SEALING COMPOUND.
5. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.

LONGITUDINAL CONSTRUCTION JOINT



CONTRACTION JOINT

- NOTES:
1. JOINTS SHALL BE EVERY 15' FOR ALL THICKNESS OF CONCRETE AND SHALL BE CONSTRUCTED WITHIN THE FIRST 12 HOURS OF CONCRETE PLACEMENT.
 2. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.



NOTES:

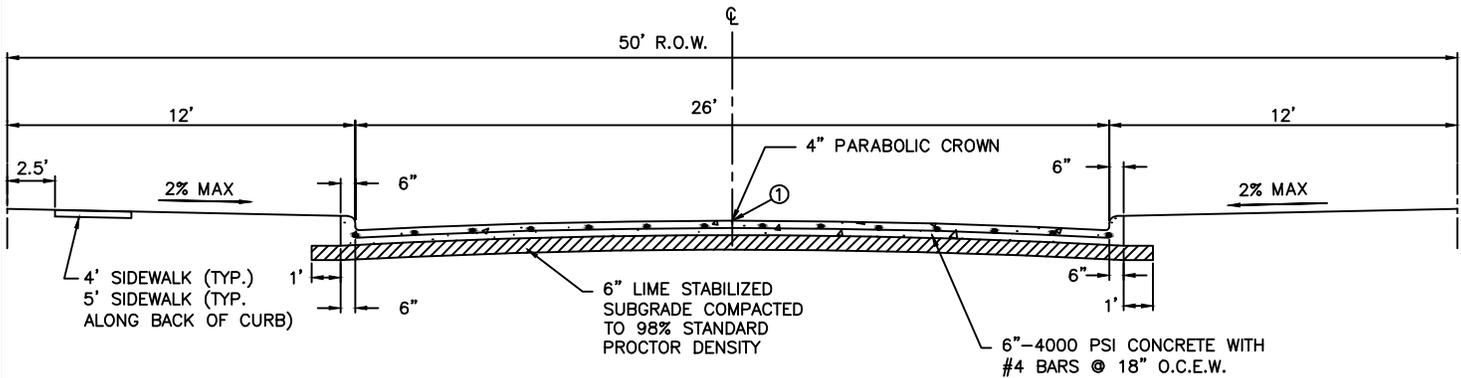
1. TURN LANES ADDED TO THOROUGHFARES SHALL BE 10"-4000 PSI CONCRETE ON 6" FLEX BASE SUBGRADE.
2. GRADE REQUIREMENTS FOR COARSE AGGREGATES FOR PAVEMENT SHALL MEET SIZE NO. 57 GRADATION REQUIREMENTS IN SECTION 303.2 PORTLAND CEMENT CONCRETE PAVEMENT MATERIALS.
3. ONLY COTTON MATS AND MEMBRANE-FORMING COMPOUNDS ARE ALLOWED FOR USE ON CONSTRUCTION PROJECTS FOR CURING OF CONCRETE.
4. THE ADDITION OF ONE SACK OF CEMENT PER CUBIC YARD IS NOT REQUIRED FOR HAND FINISHED CONCRETE.
5. FOR ALL NEW PAVEMENT PLACEMENT, PAVEMENT THICKNESS TESTS SHALL BE PERFORMED WITH A 2" THICK CORE AT A FREQUENCY OF 400 FEET SPACINGS ALONG THE LENGTH OF THE PAVEMENT PRIOR TO ACCEPTANCE AND FINAL PAYMENT OF THE CONSTRUCTION.
6. ALL EXPOSED REBAR SHALL BE CAPPED AFTER 24-HOURS OF EXPOSURE FOR ANY CONCRETE PAVEMENT CONSTRUCTION.
7. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT.
8. CURBS SHALL MEET THE SAME STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
9. SUBGRADE UNDER ALL PUBLIC PAVEMENT SHALL BE 6 INCHES THICK AND SHALL BE STABILIZED WITH AT LEAST 27 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 98 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR APPROVAL. TO DETERMINE AMOUNT OF LIME REQUIRED, LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED, OR AS REQUIRED TO REDUCE THE P.I. TO 15.
10. PROOF ROLLING SHALL BE A REQUIREMENT ON ALL SUBGRADE AND BASE MATERIALS PRIOR TO NEW PAVEMENT PLACEMENT.
11. DENSITY TESTS MUST BE TAKEN NO MORE THAN 24-HOURS PRIOR TO PLACEMENT OF CONCRETE.
12. QUICKLIME IS NOT ALLOWED.
13. MATERIAL REQUIREMENTS OF FLEXIBLE BASE OR SUBBASE SHALL BE PER TXDOT ITEM 247, GRADE 1-2, TYPE D.
14. MINIMUM 4" TOPSOIL AND GRASS GROUND COVER REQUIRED ON ALL SLOPES, PARKWAYS, AND OTHER DISTURBED, ERODABLE AREAS.
15. BAR CHAIRS SHALL BE FURNISHED.
16. ALL BARS AT SPLICES SHALL BE LAPPED A MINIMUM OF 30-DIAMETERS OF THE BAR OR 12-IN. WHICHEVER IS GREATER.
17. THE LIME TREATED SUBGRADE SHALL BE MOIST CURED UNTIL COVERED BY OTHER BASE OR PAVEMENT UP TO 14 DAYS AFTER FINAL COMPACTION. AFTER 14 DAYS WITHOUT COVERING, AN APPLICATION OF 0.20 GALLONS PER SQUARE YARD PRIME COAT (MC30) MATERIAL SHALL BE APPLIED AT THE CONTRACTOR'S EXPENSE. REAPPLICATION OF PRIME COAT MAY BE REQUIRED IF LIME TREATED SUBGRADE IS NOT COVERED SHORTLY AFTER FIRST APPLICATION.
18. CONCRETE PAVEMENT FINISH SHALL BE BAKER BROOM FINISH.
19. ALL MEDIANS & PARKWAYS SHALL BE SODDED PER ITEM 204.5 OF THE NCTCOG STANDARD SPECIFICATIONS (5TH EDITION). SEEDING SHALL BE PER ITEM 204.6 OF THE NCTCOG STANDARD SPECIFICATIONS (5TH EDITION).
20. STRIPES OR BUTTONS FOR RIGHT TURN LANES WILL BE REQUIRED TO BE THE SAME AS FOR LEFT TURN LANES.
21. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.



STANDARD CONSTRUCTION DETAIL
THOROUGHFARE DETAILS

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P11



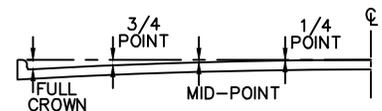
REINFORCED CONCRETE PAVEMENT

① LONGITUDINAL CONTRACTION JOINT

TABLE OF CROWN HEIGHTS AND ORDINATES FOR PARABOLIC SECTION

SLIP-FORM PAVEMENT MUST MEET CROWN GRADES AT GUTTERS, AT MID-POINTS, AND CENTERLINE

ROADWAY WIDTH (W)	PAVEMENT THICKNESS	TOTAL CROWN HEIGHT	3/4 POINT	MID-POINT	1/4 POINT
26'	6"	4"	2-1/4"	1"	1/4"



NOTES:

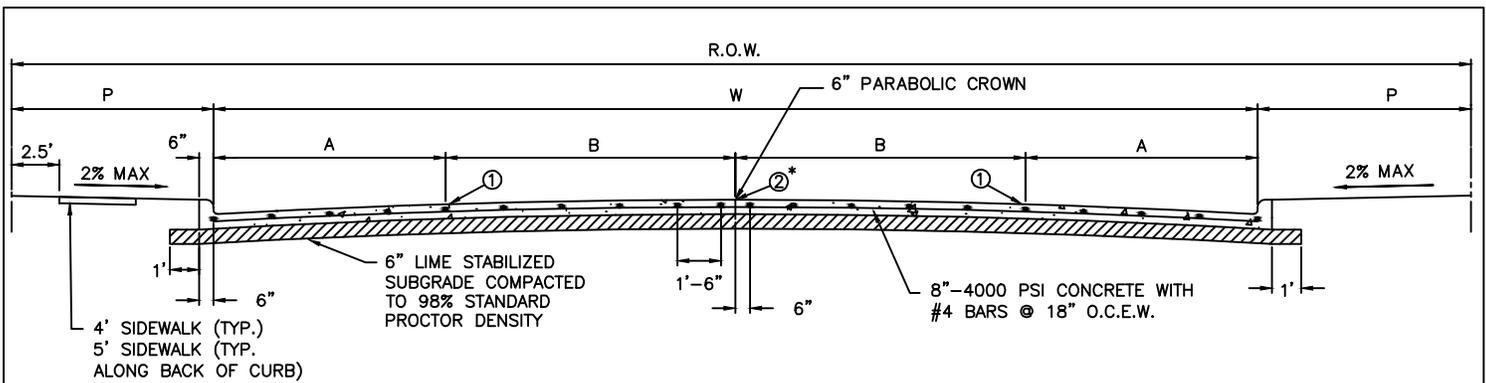
1. GRADE REQUIREMENTS FOR COARSE AGGREGATES FOR PAVEMENT SHALL MEET SIZE NO. 57 GRADATION REQUIREMENTS IN SECTION 303.2 PORTLAND CEMENT CONCRETE PAVEMENT MATERIALS.
2. ONLY COTTON MATS AND MEMBRANE-FORMING COMPOUNDS ARE ALLOWED FOR USE ON CONSTRUCTION PROJECTS FOR CURING OF CONCRETE.
3. THE ADDITION OF ONE SACK OF CEMENT PER CUBIC YARD IS NOT REQUIRED FOR HAND FINISHED CONCRETE.
4. FOR ALL NEW PAVEMENT PLACEMENT, PAVEMENT THICKNESS TESTS SHALL BE PERFORMED WITH A 2" THICK CORE AT A FREQUENCY OF 400 FEET SPACINGS ALONG THE LENGTH OF THE PAVEMENT PRIOR TO ACCEPTANCE AND FINAL PAYMENT OF THE CONSTRUCTION.
5. ALL EXPOSED REBAR SHALL BE CAPPED AFTER 24-HOURS OF EXPOSURE FOR ANY CONCRETE PAVEMENT CONSTRUCTION.
6. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT.
7. CURBS SHALL MEET THE SAME STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
8. SUBGRADE UNDER ALL PUBLIC PAVEMENT SHALL BE 6 INCHES THICK AND SHALL BE STABILIZED WITH AT LEAST 27 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 98 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR APPROVAL. TO DETERMINE AMOUNT OF LIME REQUIRED, LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED, OR AS REQUIRED TO REDUCE THE P.I. TO 15.
9. PROOF ROLLING SHALL BE A REQUIREMENT ON ALL SUBGRADE AND BASE MATERIALS PRIOR TO NEW PAVEMENT PLACEMENT.
10. DENSITY TESTS MUST BE TAKEN NO MORE THAN 24-HOURS PRIOR TO PLACEMENT OF CONCRETE.
11. QUICKLIME IS NOT ALLOWED.
12. MATERIAL REQUIREMENTS OF FLEXIBLE BASE OR SUBBASE SHALL BE PER TXDOT ITEM 247, GRADE 1-2, TYPE D.
13. MINIMUM 4" TOPSOIL AND GRASS GROUND COVER REQUIRED ON ALL SLOPES, PARKWAYS, AND OTHER DISTURBED, ERODABLE AREAS.
14. BAR CHAIRS SHALL BE FURNISHED.
15. ALL BARS AT SPLICES SHALL BE LAPPED A MINIMUM OF 30-DIAMETERS OF THE BAR OR 12-IN. WHICHEVER IS GREATER.
16. THE LIME TREATED SUBGRADE SHALL BE MOIST CURED UNTIL COVERED BY OTHER BASE OR PAVEMENT UP TO 14 DAYS AFTER FINAL COMPACTION. AFTER 14 DAYS WITHOUT COVERING, AN APPLICATION OF 0.20 GALLONS PER SQUARE YARD PRIME COAT (MC30) MATERIAL SHALL BE APPLIED AT THE CONTRACTOR'S EXPENSE. REAPPLICATION OF PRIME COAT MAY BE REQUIRED IF LIME TREATED SUBGRADE IS NOT COVERED SHORTLY AFTER FIRST APPLICATION.
17. CONCRETE PAVEMENT FINISH SHALL BE BAKER BROOM FINISH.
18. ALL PARKWAYS SHALL BE SODDED PER ITEM 204.5 OF THE NCTCOG STANDARD SPECIFICATIONS (5TH EDITION). SEEDING SHALL BE PER ITEM 204.6 OF THE NCTCOG STANDARD SPECIFICATIONS (5TH EDITION).
19. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.



STANDARD CONSTRUCTION DETAIL
RESIDENTIAL STREETS

REVISED:

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REINFORCED CONCRETE PAVEMENT

- ① LONGITUDINAL CONTRACTION JOINT
- ② CONSTRUCTION JOINT

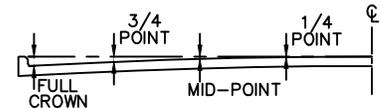
* FULL WIDTH PAVEMENT OF 36' WIDTH STREETS IS ALLOWED WHERE APPROVED BY THE CITY OF MURPHY

STREET TYPE	STREET WIDTH (W)	A	B	R.O.W. WIDTH	P
COLLECTOR	36' *	7'	11'	60'	12'
COLLECTOR	44'	11'	11'	65'	10.5'

TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

SLIP-FORM PAVEMENT MUST MEET CROWN GRADES AT GUTTERS, AT MID-POINTS, AND CENTERLINE

ROADWAY WIDTH (W)	PAVEMENT THICKNESS	TOTAL CROWN HEIGHT	3/4 POINT	MID-POINT	1/4 POINT
36'	8"	6"	3-3/8"	1-1/2"	3/8"
44'	8"	6"	3-3/8"	1-1/2"	3/8"



NOTES:

1. GRADE REQUIREMENTS FOR COARSE AGGREGATES FOR PAVEMENT SHALL MEET SIZE NO. 57 GRADATION REQUIREMENTS IN SECTION 303.2 PORTLAND CEMENT CONCRETE PAVEMENT MATERIALS.
2. ONLY COTTON MATS AND MEMBRANE-FORMING COMPOUNDS ARE ALLOWED FOR USE ON CONSTRUCTION PROJECTS FOR CURING OF CONCRETE.
3. THE ADDITION OF ONE SACK OF CEMENT PER CUBIC YARD IS NOT REQUIRED FOR HAND FINISHED CONCRETE.
4. FOR ALL NEW PAVEMENT PLACEMENT, PAVEMENT THICKNESS TESTS SHALL BE PERFORMED WITH A 2" THICK CORE AT A FREQUENCY OF 400 FEET SPACINGS ALONG THE LENGTH OF THE PAVEMENT PRIOR TO ACCEPTANCE AND FINAL PAYMENT OF THE CONSTRUCTION.
5. ALL EXPOSED REBAR SHALL BE CAPPED AFTER 24-HOURS OF EXPOSURE FOR ANY CONCRETE PAVEMENT CONSTRUCTION.
6. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT.
7. CURBS SHALL MEET THE SAME STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
8. SUBGRADE UNDER ALL PUBLIC PAVEMENT SHALL BE 6 INCHES THICK AND SHALL BE STABILIZED WITH AT LEAST 27 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 98 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR APPROVAL. TO DETERMINE AMOUNT OF LIME REQUIRED, LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED, OR AS REQUIRED TO REDUCE THE P.I. TO 15.
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14. BAR CHAIRS SHALL BE FURNISHED.
15. ALL BARS AT SPLICES SHALL BE LAPPED A MINIMUM OF 30-DIAMETERS OF THE BAR OR 12-IN. WHICHEVER IS GREATER.
16. THE LIME TREATED SUBGRADE SHALL BE MOIST CURED UNTIL COVERED BY OTHER BASE OR PAVEMENT UP TO 14 DAYS AFTER FINAL COMPACTION. AFTER 14 DAYS WITHOUT COVERING, AN APPLICATION OF 0.20 GALLONS PER SQUARE YARD PRIME COAT (MC30) MATERIAL SHALL BE APPLIED AT THE CONTRACTOR'S EXPENSE. REAPPLICATION OF PRIME COAT MAY BE REQUIRED IF LIME TREATED SUBGRADE IS NOT COVERED SHORTLY AFTER FIRST APPLICATION.
17. CONCRETE PAVEMENT FINISH SHALL BE BAKER BROOM FINISH.
18. ALL PARKWAYS SHALL BE SODDED PER ITEM 204.5 OF THE NCTCOG STANDARD SPECIFICATIONS (5TH EDITION). SEEDING SHALL BE PER ITEM 204.6 OF THE NCTCOG STANDARD SPECIFICATIONS (5TH EDITION).
19. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.

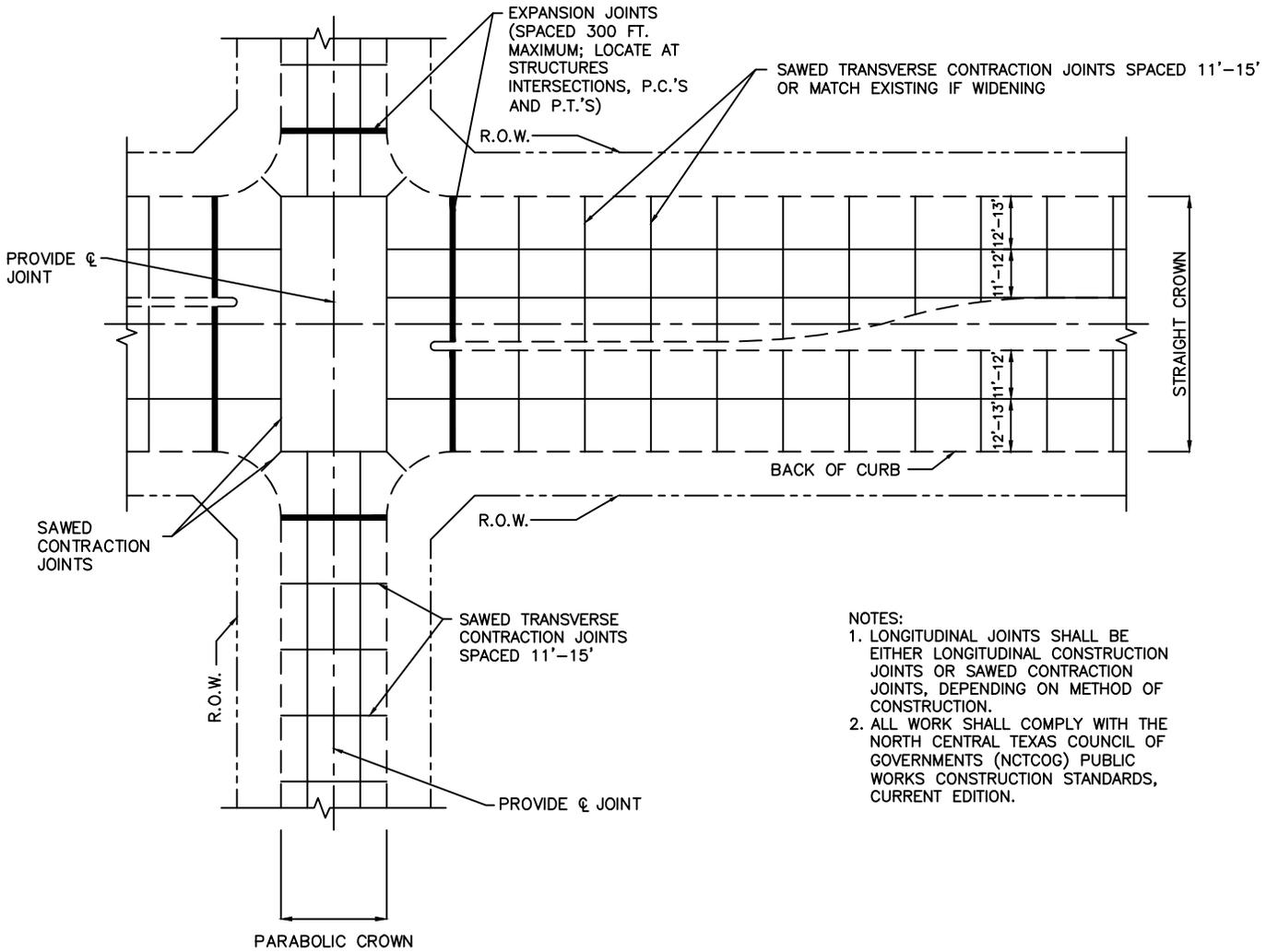


STANDARD CONSTRUCTION DETAIL

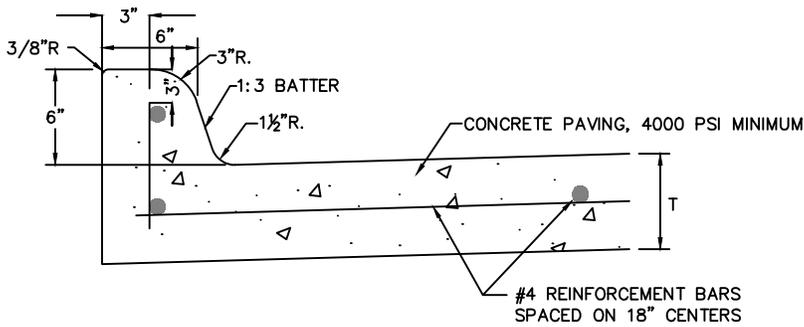
COLLECTOR STREETS

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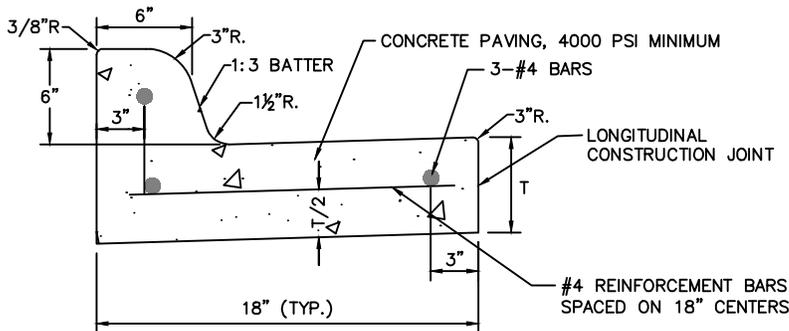


- NOTES:
1. LONGITUDINAL JOINTS SHALL BE EITHER LONGITUDINAL CONSTRUCTION JOINTS OR SAWED CONTRACTION JOINTS, DEPENDING ON METHOD OF CONSTRUCTION.
 2. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.



INTEGRAL CURB & GUTTER

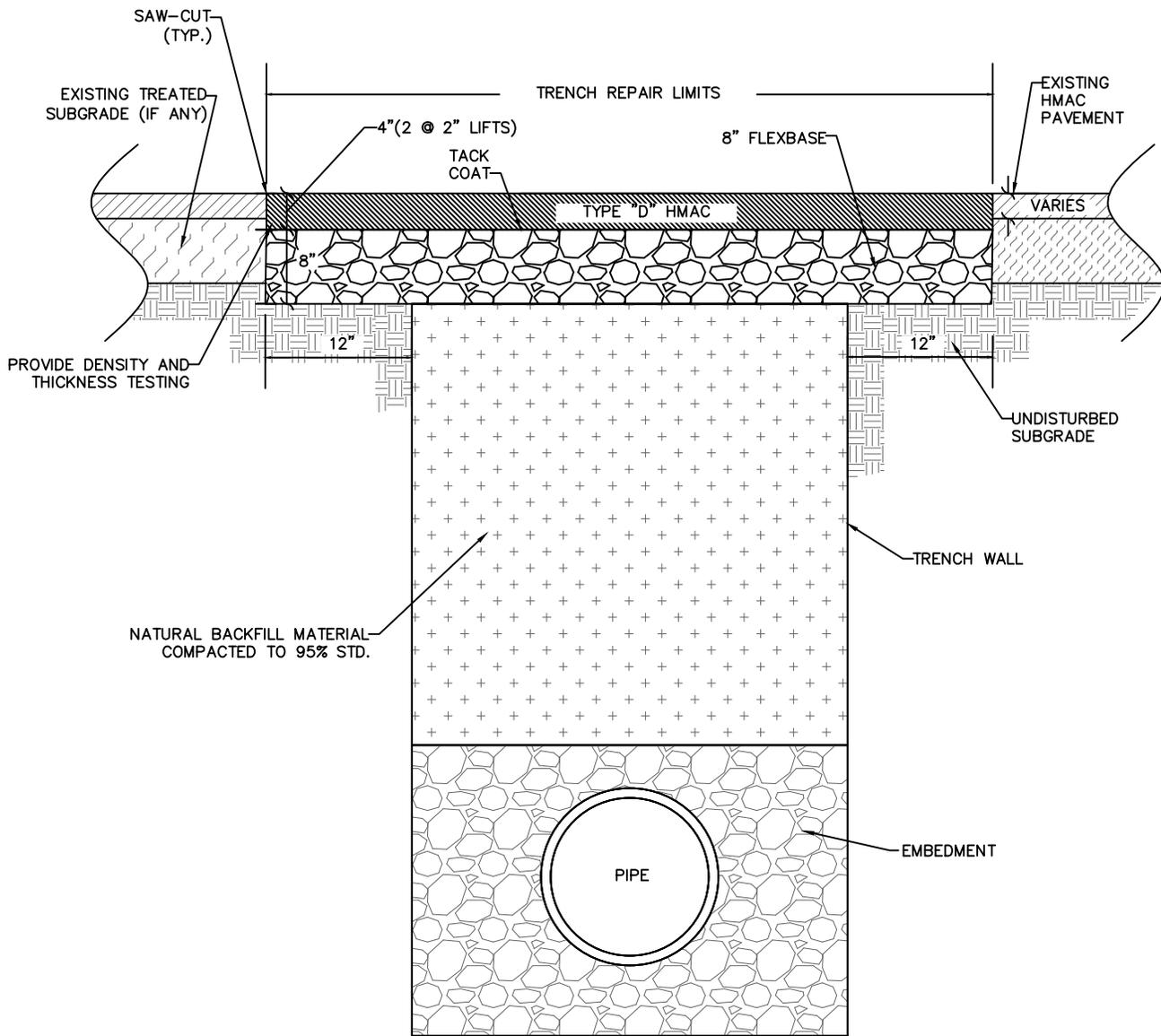
"T" - FOR PAVING THICKNESS



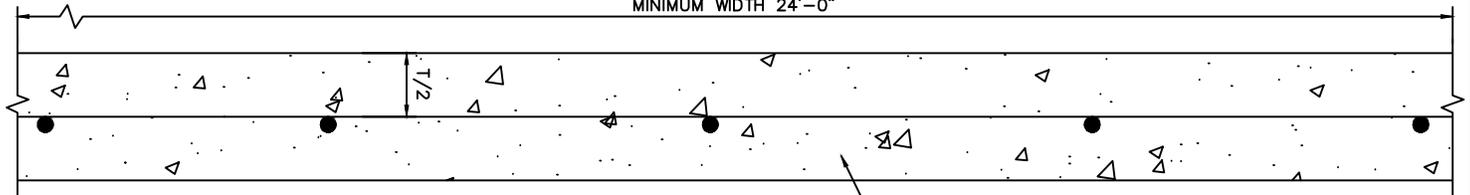
SEPARATE CURB & GUTTER

NOTES:

1. SUPER-IMPOSED CURBS ARE NOT ALLOWED.
2. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT.
3. GRADE REQUIREMENTS FOR COARSE AGGREGATES FOR PAVEMENT SHALL MEET SIZE NO. 57 GRADATION REQUIREMENTS IN SECTION 303.2 PORTLAND CEMENT CONCRETE PAVEMENT MATERIALS.
4. ONLY COTTON MATS AND MEMBRANE-FORMING COMPOUNDS ARE ALLOWED FOR USE ON CONSTRUCTION PROJECTS FOR CURING OF CONCRETE.
5. ALL BARS AT SPLICES SHALL BE LAPPED A MINIMUM OF 30-DIAMETERS OF THE BAR OR 12-IN. WHICHEVER IS GREATER.
6. BAR CHAIRS SHALL BE FURNISHED.
7. DENSITY TESTS MUST BE TAKEN NO MORE THAN 24-HOURS PRIOR TO PLACEMENT OF CONCRETE.
8. FOR ALL NEW PAVEMENT PLACEMENT, PAVEMENT THICKNESS TESTS SHALL BE PERFORMED WITH A 2" THICK CORE AT A FREQUENCY OF 400 FEET SPACINGS ALONG THE LENGTH OF THE PAVEMENT PRIOR TO ACCEPTANCE AND FINAL PAYMENT OF THE CONSTRUCTION.
9. ALL EXPOSED REBAR SHALL BE CAPPED AFTER 24-HOURS OF EXPOSURE FOR ANY CONCRETE PAVEMENT CONSTRUCTION.
10. THE ADDITION OF ONE SACK OF CEMENT PER CUBIC YARD IS NOT REQUIRED FOR HAND FINISHED CONCRETE.
11. MATERIAL REQUIREMENTS OF FLEXIBLE BASE OR SUBBASE SHALL BE PER TXDOT ITEM 247, GRADE 1-2, TYPE D.
12. MINIMUM 4" TOPSOIL AND GRASS GROUND COVER REQUIRED ON ALL SLOPES, PARKWAYS, AND OTHER DISTURBED, ERODABLE AREAS.
13. CONCRETE PAVEMENT FINISH SHALL BE BAKER BROOM FINISH.
14. ALL PARKWAYS SHALL BE SODDED PER ITEM 204.5 OF THE NCTCOG STANDARD SPECIFICATIONS (5TH EDITION). SEEDING SHALL BE PER ITEM 204.6 OF THE NCTCOG STANDARD SPECIFICATIONS (5TH EDITION).
15. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.



MINIMUM WIDTH 24'-0"



1. DOWELS & REBARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. JOINTS TO BE THE SAME AS USED FOR CONCRETE STREET PAVING WITH A MAXIMUM JOINT SPACING OF 12'.

8"-4000 P.S.I. REINFORCED WITH #4 BARS 18" O.C. BOTH WAYS ON 6" LIME STABILIZED SUBGRADE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY AT ± 3% OPTIMUM MOISTURE CONTENT.

FIRE LANE PAVING & JOINT DETAIL

NOTES:

1. THE GRADE OF THE FIRE APPARATUS ACCESS ROAD SHALL BE WITHIN THE LIMITS ESTABLISHED BY THE FIRE CODE OFFICIAL BASED ON THE FIRE DEPARTMENTS APPARATUS.
2. THE CROSS SLOPE MUST BE A MINIMUM OF 0.5% TO ALLOW FOR WATER DRAINAGE.
3. CHANGE IN GRADE/SLOPE IN THE DIRECTION OF TRAVEL SHALL BE A MAXIMUM OF 6%.
4. FIRE LANES SHALL BE CONSTRUCTED OF CONCRETE SURFACE CAPABLE OF SUPPORTING THE IMPOSED LOADS OF 80,000 POUNDS FOR FIRE APPARATUS AND MEETING THE REQUIREMENTS OF THE CITY PARKING LOT STANDARDS. WHENEVER FORTY PERCENT (40%) OF EXISTING, NON-CONFORMING FIRE LANES ARE REPLACED WITHIN A TWELVE MONTH PERIOD, THE ENTIRE FIRE LANE SHALL BE REPLACED ACCORDING TO CURRENT STANDARDS.
5. GRADE REQUIREMENTS FOR COARSE AGGREGATES FOR PAVEMENT SHALL MEET SIZE NO. 57 GRADATION REQUIREMENTS IN SECTION 303.2 PORTLAND CEMENT CONCRETE PAVEMENT MATERIALS.
6. ONLY COTTON MATS AND MEMBRANE-FORMING COMPOUNDS ARE ALLOWED FOR USE ON CONSTRUCTION PROJECTS FOR CURING OF CONCRETE.
7. THE ADDITION OF ONE SACK OF CEMENT PER CUBIC YARD IS NOT REQUIRED FOR HAND FINISHED CONCRETE.
8. FOR ALL NEW PAVEMENT PLACEMENT, PAVEMENT THICKNESS TESTS SHALL BE PERFORMED WITH A 2" THICK CORE AT A FREQUENCY OF 400 FEET SPACINGS ALONG THE LENGTH OF THE PAVEMENT PRIOR TO ACCEPTANCE AND FINAL PAYMENT OF THE CONSTRUCTION.
9. ALL EXPOSED REBAR SHALL BE CAPPED AFTER 24-HOURS OF EXPOSURE FOR AN CONCRETE PAVEMENT.
10. ALL CURBS SHALL BE PLACED INTEGRAL WITH PAVEMENT.
11. CURBS SHALL MEET THE SAME STRENGTH AS SPECIFIED FOR THE CONCRETE PAVEMENT.
12. SUBGRADE UNDER ALL PUBLIC PAVEMENT SHALL BE 6 INCHES THICK AND SHALL BE STABILIZED WITH AT LEAST 27 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 98 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR APPROVAL. TO DETERMINE AMOUNT OF LIME REQUIRED, LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED, OR AS REQUIRED TO REDUCE THE P.I. TO 15.
13. PROOF ROLLING SHALL BE A REQUIREMENT ON ALL SUBGRADE AND BASE MATERIALS PRIOR TO NEW PAVEMENT PLACEMENT.
14. DENSITY TESTS MUST BE TAKEN NO MORE THAN 24-HOURS PRIOR TO PLACEMENT OF CONCRETE.
15. QUICKLIME IS NOT ALLOWED.
16. MATERIAL REQUIREMENTS OF FLEXIBLE BASE OR SUBBASE SHALL BE PER TXDOT ITEM 247, GRADE 1-2, TYPE D.
17. BAR CHAIRS SHALL BE FURNISHED.
18. ALL BARS AT SPLICES SHALL BE LAPPED A MINIMUM OF 30-DIAMETERS OF THE BAR OR 12-IN. WHICHEVER IS GREATER.
19. THE LIME TREATED SUBGRADE SHALL BE MOIST CURED UNTIL COVERED BY OTHER BASE OR PAVEMENT UP TO 14 DAYS AFTER FINAL COMPACTION. AFTER 14 DAYS WITHOUT COVERING, AN APPLICATION OF 0.20 GALLONS PER SQUARE YARD PRIME COAT (MC30) MATERIAL SHALL BE APPLIED AT THE CONTRACTOR'S EXPENSE. REAPPLICATION OF PRIME COAT MAY BE REQUIRED IF LIME TREATED SUBGRADE IS NOT COVERED SHORTLY AFTER FIRST APPLICATION.
20. CONCRETE PAVEMENT FINISH SHALL BE BAKER BROOM FINISH.
21. ALL WORK SHALL COMPLY WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARDS, CURRENT EDITION.