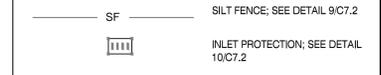


GENERAL SHEET NOTES:

1. SEE SHEET C0.1 FOR CIVIL NOTES AND LEGENDS
2. FIELD VERIFY LOCATION AND ELEVATION OF EXISTING DRAINAGE BEFORE INSTALLING PROPOSED PIPE. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

KEYED NOTES

- 1 CURB INLET; SEE DETAIL 7/C7.1
- 2 CURB TAPER
- 3 ADJUST CASTING OF EXISTING CURB INLET TO MATCH GRADE
- 4 14"x20" PEDESTALS BY OTHERS. EXACT LOCATIONS TO BE DETERMINED IN FIELD.
- 5 (2) 2" ELECTRICAL CONDUIT BURIED 36" BELOW GRADE (INCLUDES 1 SPARE)
- 6 (1) 2" ELECTRICAL CONDUIT BURIED 24" BELOW GRADE
- 7 EXTEND CONDUIT 36" BEYOND PROPOSED SIDEWALK AND CAP END. PLACE LOCATION MARKER
- 8 CROSS DRAIN; SEE DETAIL 11/C7.2
- 9 DOG HOUSE MANHOLE; SEE DETAIL 8/C7.4



UTILITY CONTACTS

WATER PUBLIC WORKS DEPARTMENT 100 WOODBURY LANE OAK RIDGE, TN 37830 (865) 425-1875	SEWER PUBLIC WORKS DEPARTMENT 100 WOODBURY LANE OAK RIDGE, TN 37830 (865) 425-1875
GAS OAK RIDGE UTILITY DISTRICT 603 SCARBORO ROAD OAK RIDGE, TN 37830 (865) 482-4552	ELECTRIC UTILITY BUSINESS OFFICE 100 WOODBURY LANE OAK RIDGE, TN 37830 (865) 425-3400

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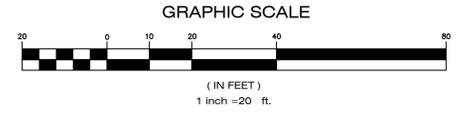
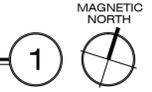
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SITE GRADING, DRAINAGE & UTILITY PLAN

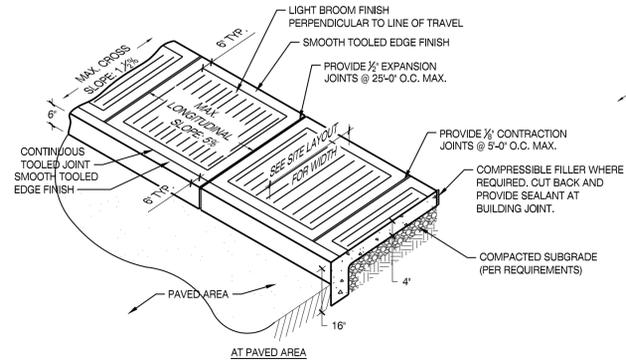
Date: 03/27/2015
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 Drawn By: J.S.B.
 Reviewed By: D.J.M.
 Comm. No. 140398
 Revisions:

SITE GRADING, DRAINAGE & UTILITY PLAN

SCALE: 1" = 20'-0"



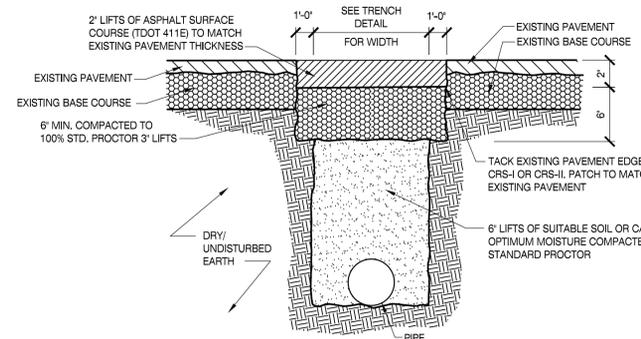
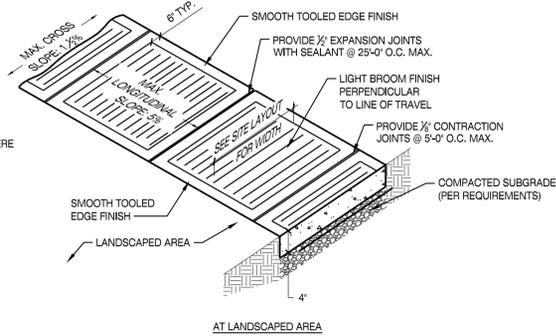
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 Sheet No. C4.0



CONCRETE SIDEWALK

SCALE: N.T.S.

1

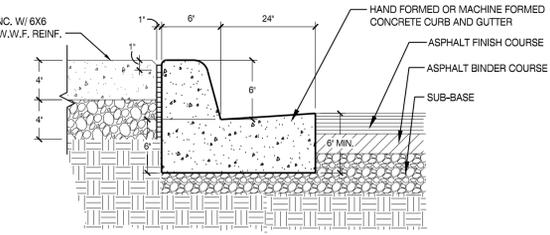


- NOTES:
- EDGE TO BE SAWED WITH A CONCRETE SAW TO A NEAT SQUARED EDGE. BROOMED CLEAN OF DUST BEFORE TACK COAT IS APPLIED.
 - EDGES TO BE TACKED WITH CRS-I OR CRS-II.
 - CONTRACTOR RESPONSIBLE FOR REPLACEMENT OF ANY PAVEMENT MARKINGS DISTURBED OR COVERED BY OVERLAY.
 - SEE NOTES ON SHEET PR2 FOR ROAD SECTION SPECIFICATIONS.

ASPHALT REPAIR

SCALE: N.T.S.

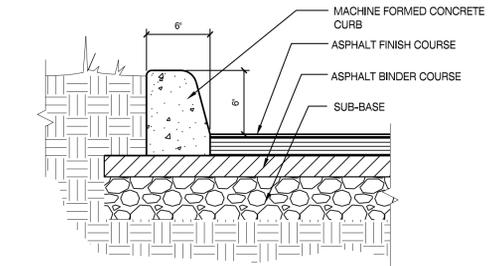
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CURB AND GUTTER

SCALE: N.T.S.

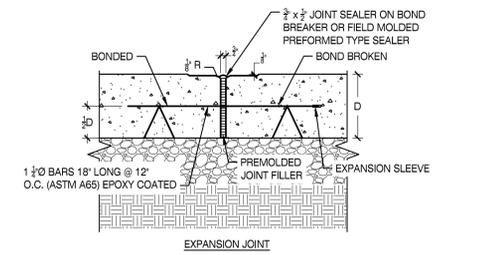
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CONCRETE CURB

SCALE: N.T.S.

3

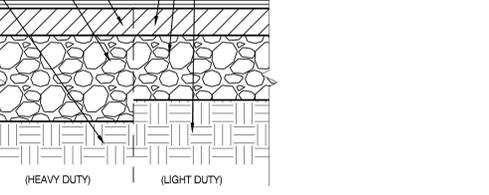
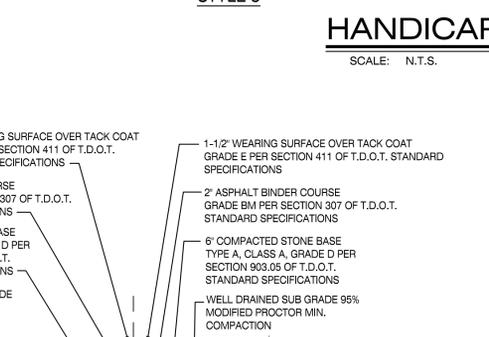
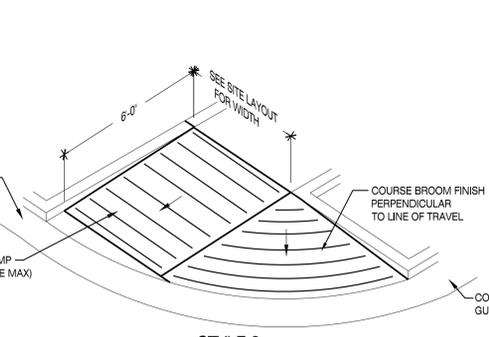
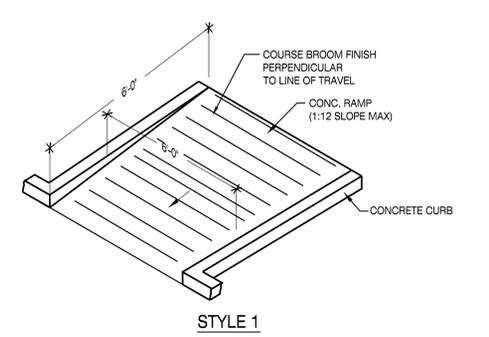
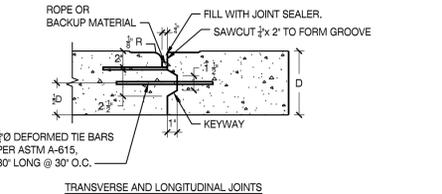
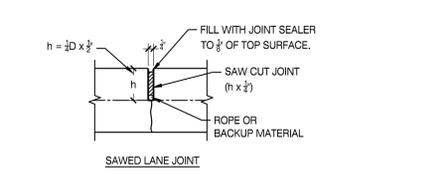
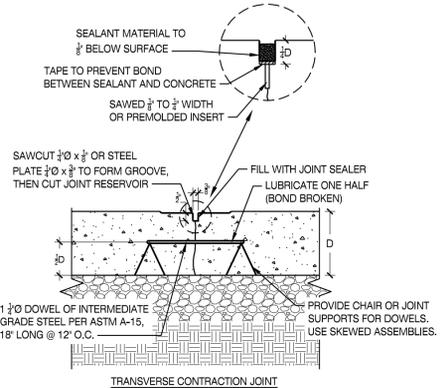


- NOTES:
- THE JOINTS CAN BE COMPLETELY FILLED WITH SEALANT MATERIAL OR PREMOLDED JOINT FILLER CAN BE INSERTED IN THE JOINT FIRST TO REDUCE THE AMOUNT OF SEALANT REQUIRED.
 - SEALANT TO BE POURED TO WITHIN 3/8" OF TOP OF PAVEMENT.
 - PRIOR TO SEALING, JOINT SURFACES MUST BE CLEANED AND FREE OF CURING COMPOUND, RESIDUE, LAITANCE AND ANY OTHER FOREIGN MATERIAL.
 - THE SURFACE SHOULD BE DRY WHEN THE SEALANT IS POURED.
 - ALL JOINT DOWELS MUST BE LEVEL, TRUE AND ADEQUATELY SUPPORTED SO THERE IS NO MOVEMENT DURING THE PLACEMENT OF CONCRETE.
 - DOWELS MUST BE PARALLEL TO THE CURB LINES AND THE SURFACE OF THE SLAB. TOLERANCE OF THIS PLACEMENT SHALL BE ±1/8".
 - THE CONCRETE SHALL BE DEPOSITED ON A MOIST GRADE IN SUCH MANNER AS TO REQUIRE AS LITTLE REHANDLING AS POSSIBLE. PLACING SHALL BE CONTINUOUS BETWEEN TRANSVERSE JOINTS WITHOUT THE USE OF INTERMEDIATE BULKHEADS. NECESSARY HAND SPREADING SHALL BE DONE WITH SHOVELS. NOT RAKES. WORKMEN SHALL NOT BE ALLOWED TO WALK ON THE FRESHLY MIXED CONCRETE WITH BOOTS OR SHOES COATED WITH EARTH OR FOREIGN SUBSTANCES.
 - CONCRETE SHALL BE THOROUGHLY CONSOLIDATED AGAINST AND ALONG THE FACES OF ALL FORMS AND ALONG THE FULL LENGTH AND ON BOTH SIDES OF ALL JOINTS ASSEMBLIES. VIBRATORS SHALL NOT BE PERMITTED TO COME IN CONTACT WITH A JOINT ASSEMBLY. THE GRADE OR A SIDE FORM. THE VIBRATOR SHALL NEVER BE OPERATED LONGER THAN TEN (10) SECONDS IN ANY ONE LOCATION.
 - CONCRETE SHALL BE DEPOSITED AS NEAR TO EXPANSION AND CONTRACTION JOINTS AS POSSIBLE WITHOUT DISTURBING THEM BUT SHALL NOT BE DUMPED ONTO A JOINT ASSEMBLY.
 - THE CONTRACTOR SHALL, WITHIN EIGHT (8) WEEKS OF THE NOTICE TO PROCEED, PREPARE AND SUBMIT TO THE CHIEF ENGINEER OF HIGHWAY DESIGN DETAILED SHOP DRAWINGS FOR THE ENTIRE PAVEMENT SHOWING: ALL PROPOSED TRANSVERSE AND LONGITUDINAL CONSTRUCTION, EXPANSION AND CONTRACTION JOINTS, PROPOSED CURB JOINTS; THE PROPOSED METHOD OF DOWEL SUPPORT; AND THE PROPOSED SEALANT METHOD FOR THE PRIOR APPROVAL OF THE ENGINEER.
 - SAWING OF THE JOINTS SHALL BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING. ALL JOINTS SHALL BE SAWED BEFORE UNCONTROLLED SHRINKAGE CRACKING OCCURS. IF NECESSARY, THE SAWING OPERATIONS SHALL BE CARRIED ON BOTH DAY AND NIGHT REGARDLESS OF WEATHER CONDITIONS. A STANDBY SAW SHALL BE AVAILABLE IN THE EVENT OF BREAKDOWN.
 - THE SAWING OF ANY JOINT SHALL BE OMITTED IF A CRACK OCCURS AT OR NEAR THE JOINT LOCATION BEFORE THE TIME OF SAWING. SAWING SHALL BE DISCONTINUED IF A CRACK DEVELOPS AHEAD OF THE SAW. IN GENERAL, ALL JOINTS SHALL BE SAWED IN SEQUENCE. ALL CONTRACTION JOINTS IN LANES ADJACENT TO PREVIOUSLY CONSTRUCTED LANES SHALL BE SAWED BEFORE UNCONTROLLED CRACKING OCCURS. IF EXTREME CONDITIONS MAKE IT IMPRACTICABLE TO PREVENT ERATIC CRACKING BY EARLY SAWING, THE CONTRACTION JOINT GROOVE SHALL BE FORMED BEFORE INITIAL SET OF THE CONCRETE BY APPROVED METHODS. METAL REINFORCEMENT IS NOT SHOWN ON JOINT DETAILS.
 - TRANSVERSE CONSTRUCTION JOINTS ARE NECESSARY FOR PLANNED INTERRUPTIONS, AND WHERE EMERGENCY INTERRUPTIONS SUSPEND OPERATIONS FOR 30 MINUTES OR MORE.

CONCRETE JOINTS

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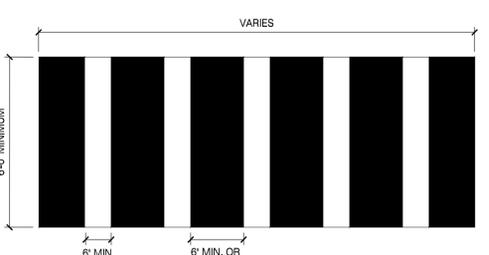
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HANDICAP RAMP

SCALE: N.T.S.

5

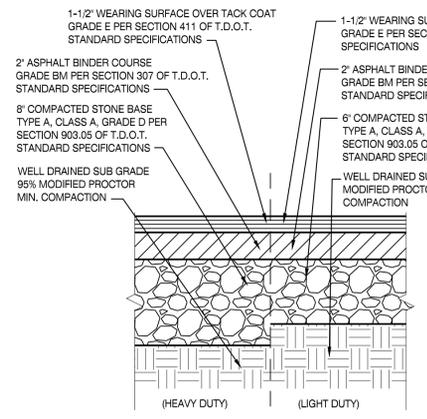


- NOTES:
- SOLID WHITE LINES, NOT LESS THAN 6" NOR GREATER THAN 24".
 - GAPS BETWEEN TRAVERSE LINES SHALL BE NOT LESS THAN 6" PER MUTCD REQUIREMENTS.

CROSSWALK

SCALE: N.T.S.

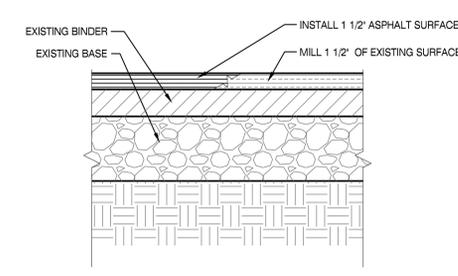
6



ASPHALT PAVING

SCALE: N.T.S.

7



RESURFACING

SCALE: N.T.S.

8

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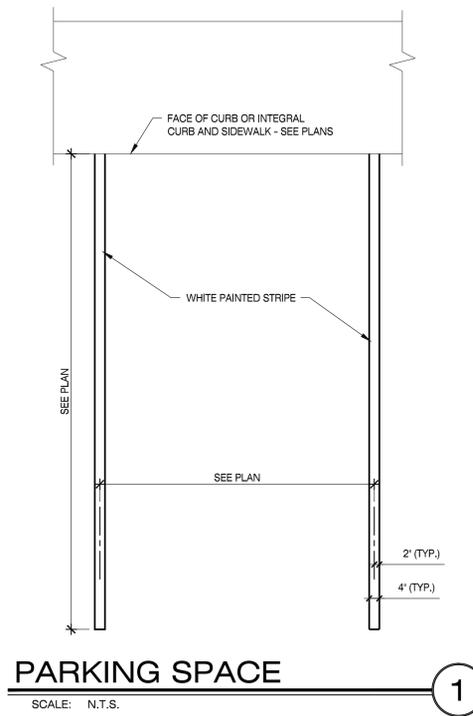
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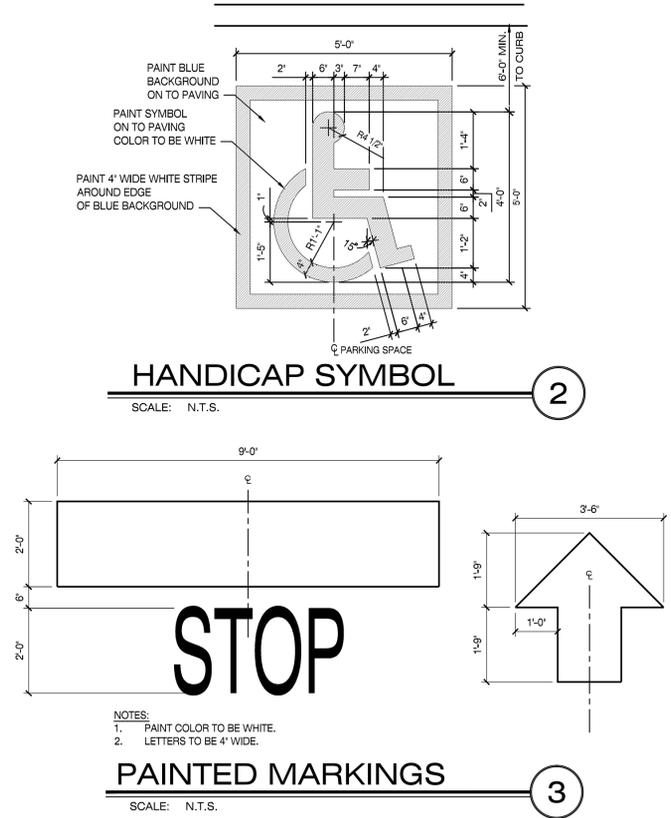
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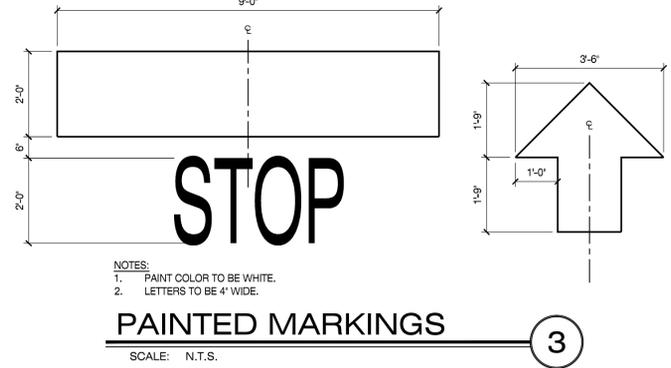
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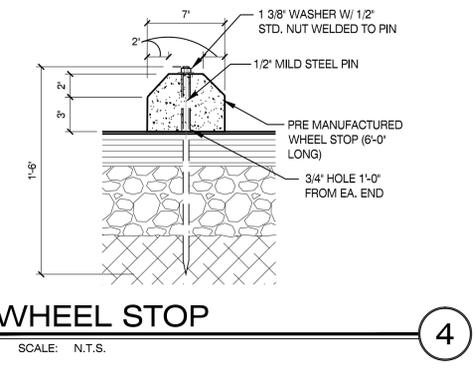
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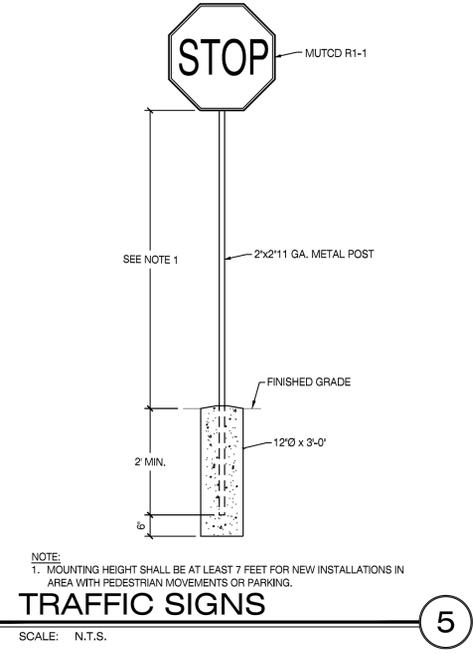
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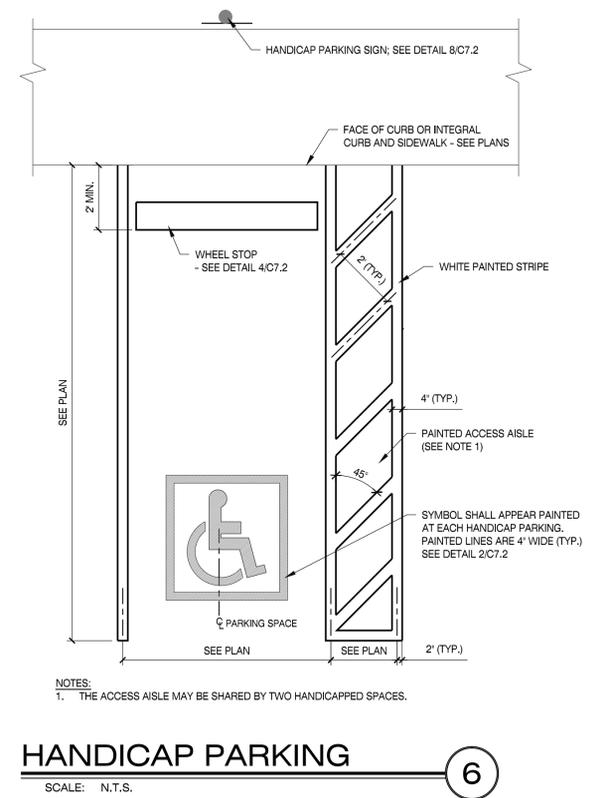
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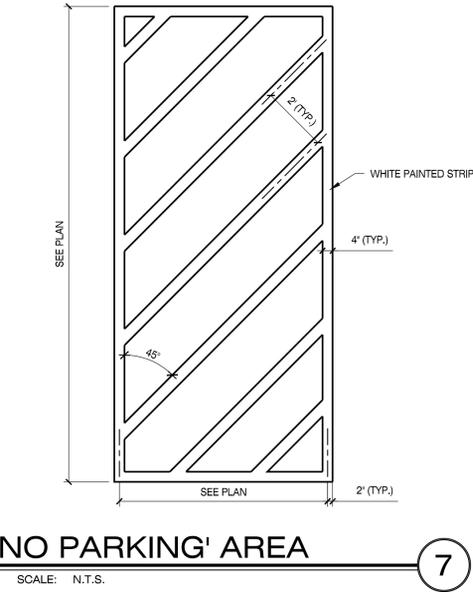
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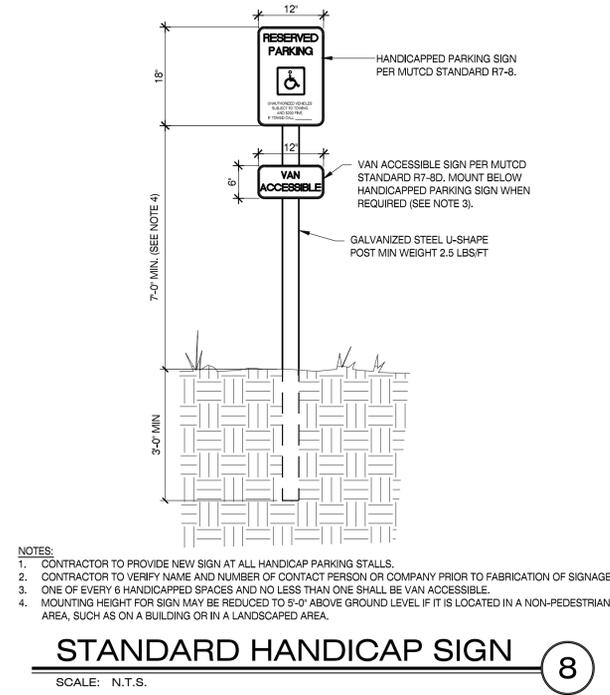
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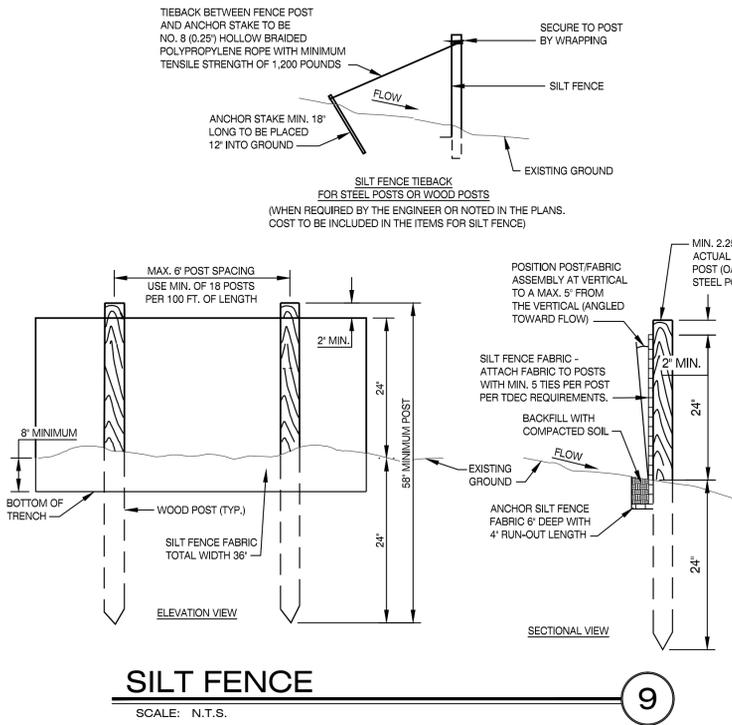
HANDICAP PARKING
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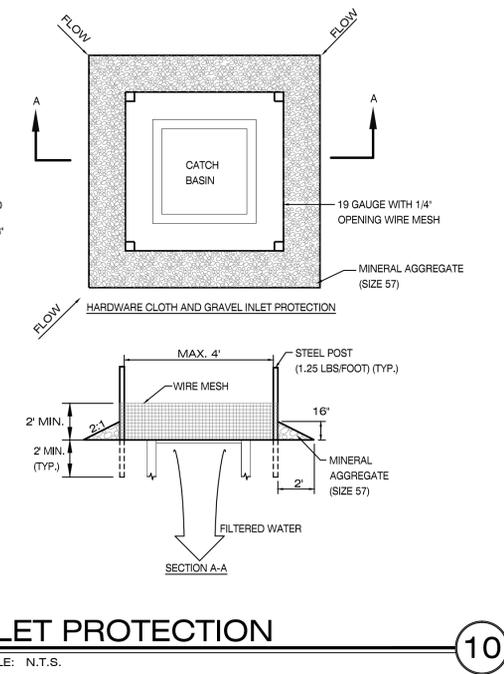
'NO PARKING' AREA
SCALE: N.T.S. 7



STANDARD HANDICAP SIGN
SCALE: N.T.S. 8



SILT FENCE
SCALE: N.T.S. 9



INLET PROTECTION
SCALE: N.T.S. 10

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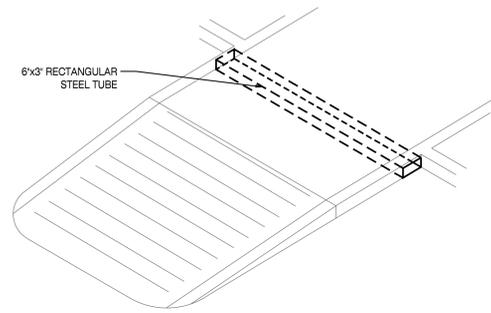
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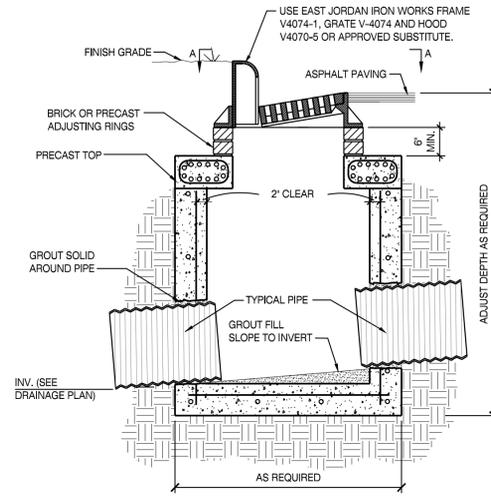
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CROSS DRAIN

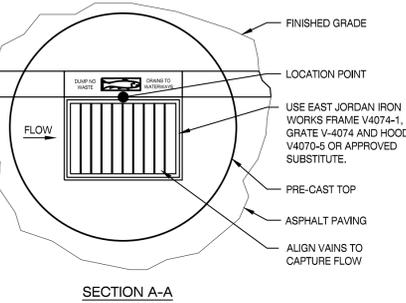
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1



CURB INLET

SCALE: N.T.S.



DUMP NO WASTE  DRAINS TO WATERWAYS

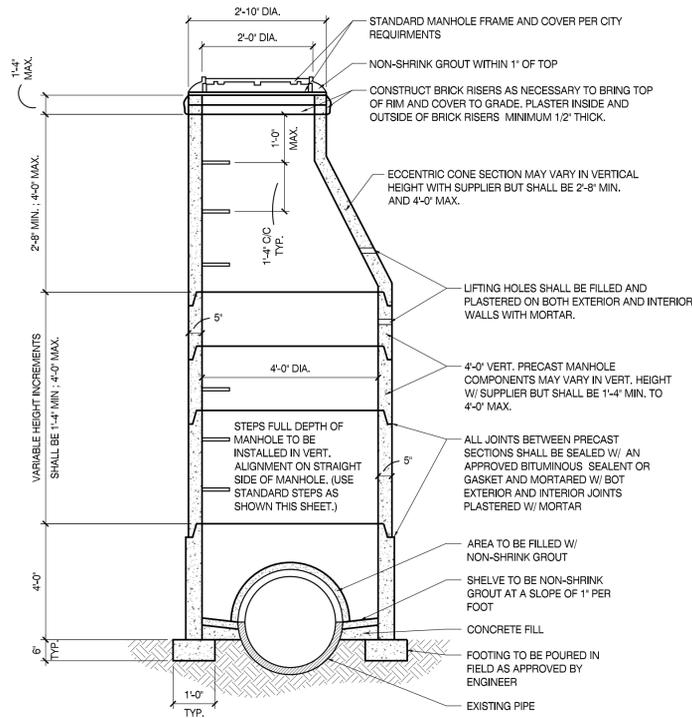
ENVIRONMENTAL MESSAGE

* SYMBOL SHALL BE PERMANENTLY CAST INTO GRATE

NOTES

1. PRECAST SQUARE OR ROUND CATCHBASINS ARE ACCEPTABLE. CATCHBASINS SHALL MEET T.D.O.T. REQUIREMENTS. PRECAST VENDER SELECT STRUCTURE BEST SUITED FOR PIPE CONFIGURATION AND DEPTH.
2. PROVIDE ADJUSTING RINGS OR BRICK COURSES BELOW GRATE TO ALLOW FOR FINAL ADJUSTMENT AS SHOWN.
3. SLOPE GRATE TO MATCH SLOPE.
4. KNOCK OUT HOLE IN ADJUSTING RING OR BRICK COURSE TO ALLOW SITE DRAINAGE UNTIL FINAL PAVEMENT IS COMPLETE. PATCH HOLE WITH GROUT BEFORE PAVING.
5. SEE STORM DRAINAGE PLAN FOR TYPE AND SIZING OF PIPES AND INVERT ELEVATIONS.
6. CLEAN CATCH BASIN OF ALL CONSTRUCTION DEBRIS AND SILT AT COMPLETION OF SITE WORK.
7. UNLESS OTHERWISE NOTED, PROVIDE A PRECAST T.D.O.T NO. 12 CATCH BASIN WITH TYPE B CAST IRON FRAME, GRATE AND NON-MOUNTABLE INLET.

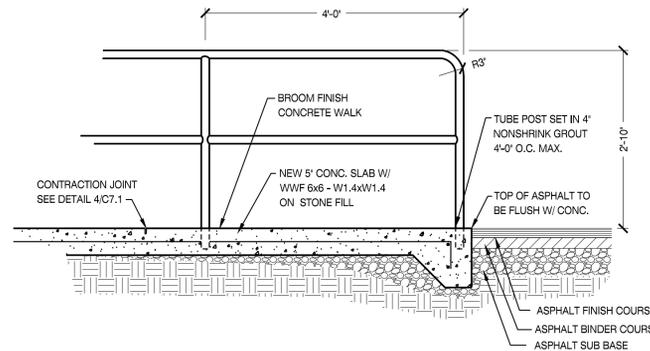
SECTION A-A



DOGHOUSE MANHOLE

SCALE: N.T.S.

3



RAILING DETAIL

SCALE: N.T.S.

4

- PRECAST MANHOLE NOTES:
1. 5'-0" OR 6'-0" DIAMETER WHEN DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER FOR PIPE SIZE.
 2. 5" MIN. WALL THICKNESS, 5'-0" DIAMETER MANHOLES.

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