

CHIEF

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

PANYNJ
Traffic Standard
Details

TRAFFIC

Title

PAVEMENT MARKINGS

**LONGITUDINAL
MARKINGS**

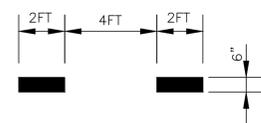
This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and those who do not bid and their prospective subcontractors and suppliers who may receive all or a part of the Contract documents or copies thereof, shall make every effort to ensure the secure and appropriate disposal of the Contract documents to prevent further disclosure of the information contained in the documents. Secure and appropriate disposal includes methods of document destruction such as shredding or arrangements with release handlers that ensure that third persons will not have access to the documents' contents either before, during, or after disposal. Documents may also be returned for disposal purposes to the Contract Desk on the 3rd Floor, 3 Gateway Center, Newark NJ 07102 or the office of the Director of Procurement, One Madison Avenue, 7th Floor, New York, NY 10010.
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Designed by _____ Drawn by _____ Checked by _____

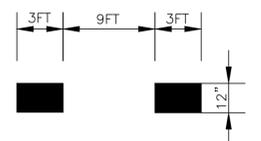
Date **1/07/2013**

Contract Number _____

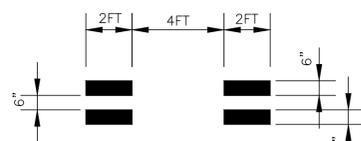
Drawing Number **TD50.01**
PID# _____



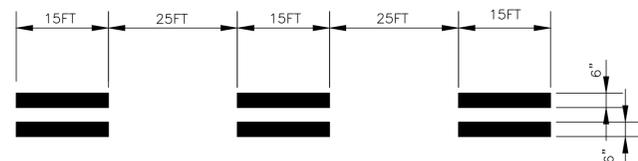
DOTTED LANE LINE - SHORT
(DWLL-S OR DYLL-S)
(WHITE OR YELLOW)
N.T.S.



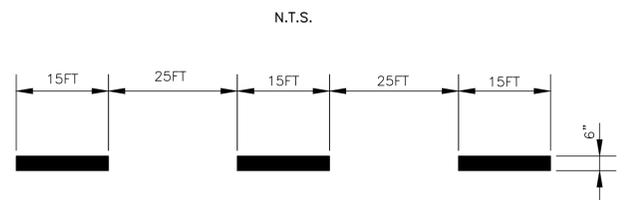
DOTTED LANE LINE - WIDE
(DWLL-W)
N.T.S.



DOUBLE YELLOW DOTTED LANE LINE
(DYDLL)
N.T.S.



DOUBLE YELLOW BROKEN LANE LINE
(DYBLL)
(YELLOW)
N.T.S.



BROKEN LANE LINE
(BWLL OR BYLL)
(WHITE OR YELLOW)
N.T.S.



SOLID EDGE OR LANE LINE
(SWEL, SWLL, SYEL OR SYLL)
(WHITE OR YELLOW)
N.T.S.



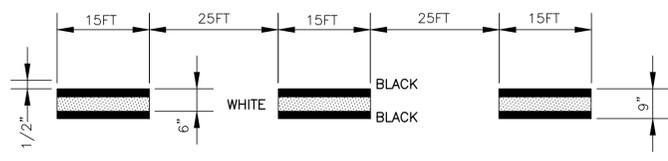
SOLID WHITE LANE LINE - WIDE
(SWLL-W)
N.T.S.



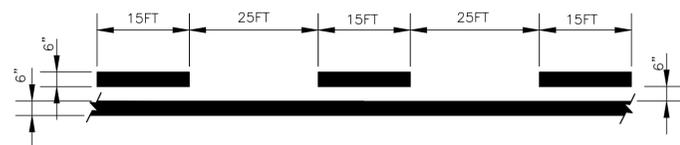
FULL YELLOW BARRIER LINE
(FYBL)
N.T.S.



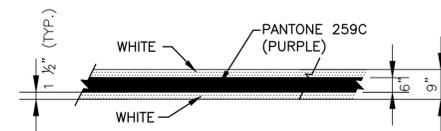
FULL WHITE BARRIER LINE
(FWBL)
N.T.S.



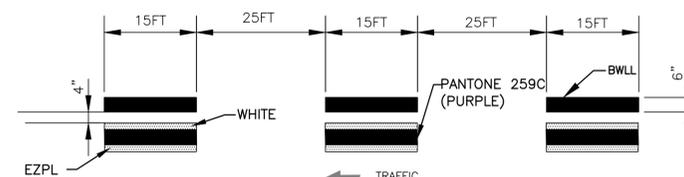
HIGH CONTRAST BROKEN LINE
(HCBL)
N.T.S.



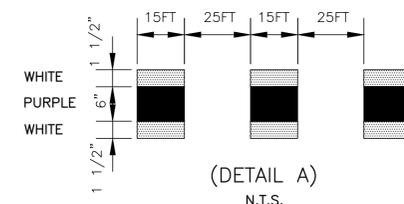
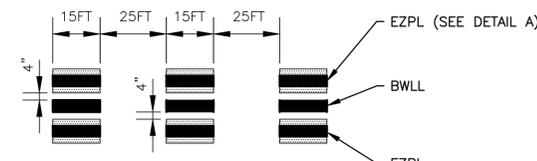
PARTIAL BARRIER LINE
(PWBL OR PYBL)
(WHITE OR YELLOW)
N.T.S.



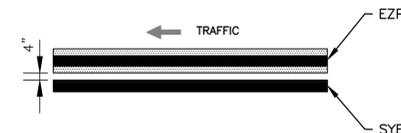
EZ PASS LINE
(EZPL)
N.T.S.



EZ PASS BROKEN LANE LINE - SINGLE LANE
(EZBLL-SL)
N.T.S.



EZ PASS BROKEN LANE LINE - DOUBLE LANE
(EZBLL-DL)
N.T.S.



EZ PASS SOLID LANE LINE - SINGLE LANE
(EZSLL-SL)
N.T.S.



HIGH CONTRAST SOLID LINE
(HCSSL-W OR HCSSL-Y)
(WHITE OR YELLOW)
N.T.S.

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TRAFFIC

Title
PAVEMENT MARKINGS

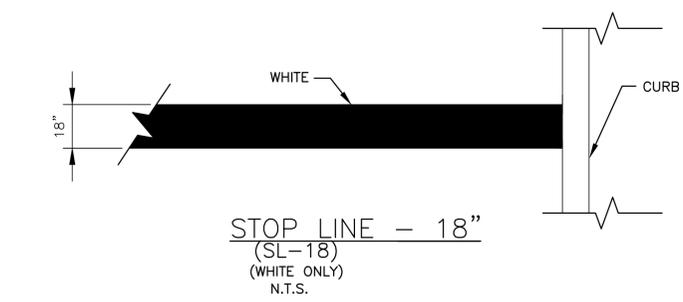
**TRANSVERSE MARKINGS
 (1 of 2)**

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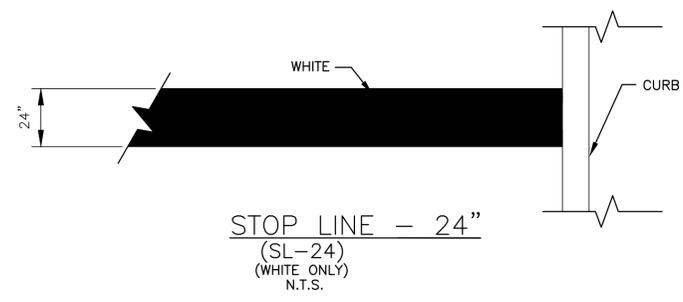
Designed by _____ Drawn by _____ Checked by _____
 Date **1/07/2013**

Contract Number _____

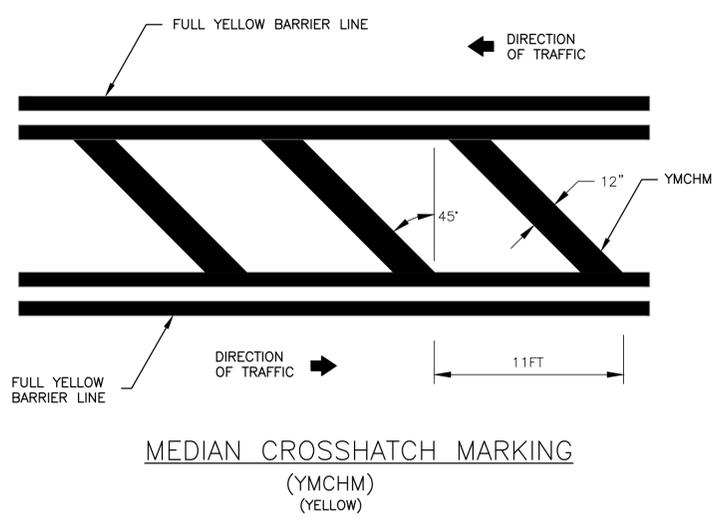
Drawing Number **TD50.02**
 PID# _____



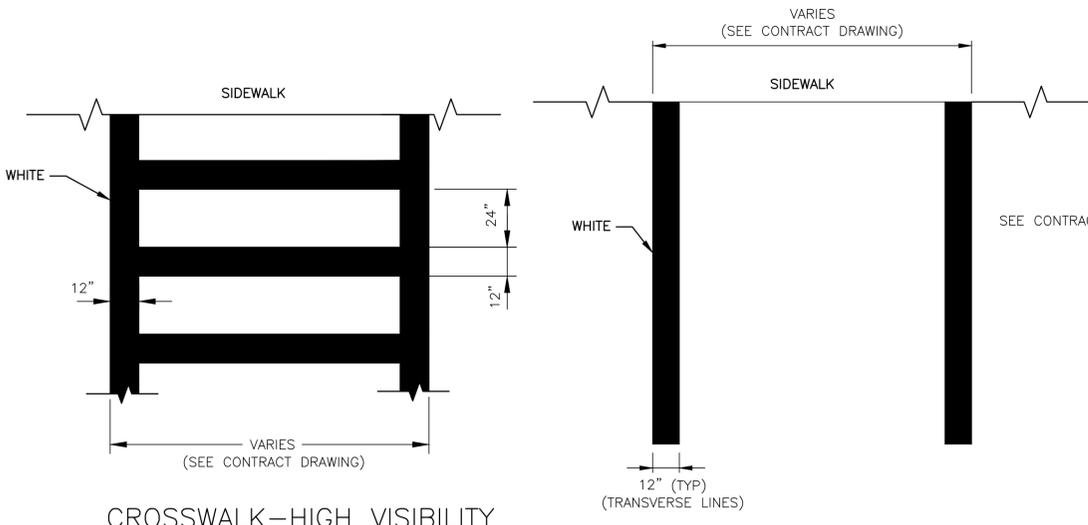
STOP LINE - 18"
 (SL-18)
 (WHITE ONLY)
 N.T.S.



STOP LINE - 24"
 (SL-24)
 (WHITE ONLY)
 N.T.S.

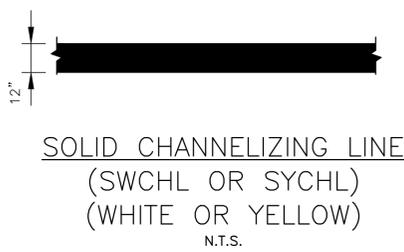


MEDIAN CROSSHATCH MARKING
 (YMCHM)
 (YELLOW)
 N.T.S.

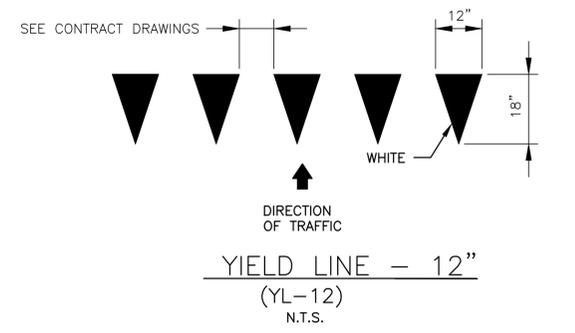


CROSSWALK-HIGH VISIBILITY
 (CW-HV)
 (WHITE ONLY)
 N.T.S.

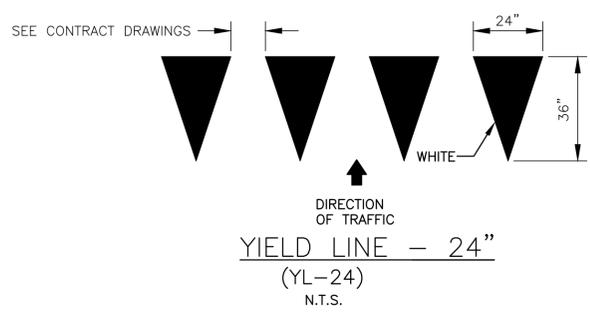
CROSSWALK
 (CW)
 (WHITE ONLY)
 N.T.S.



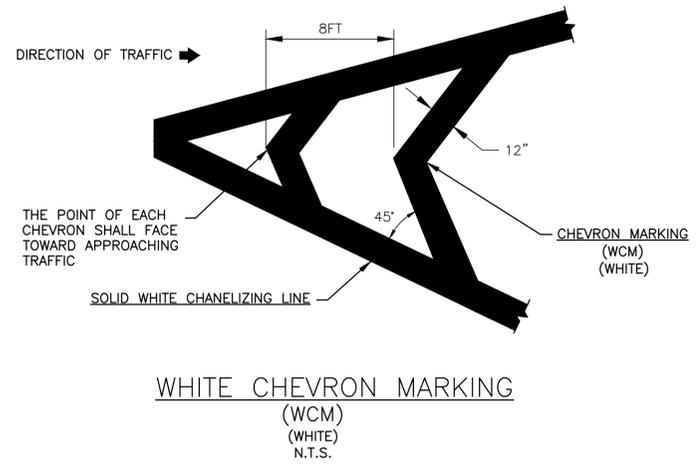
SOLID CHANNELIZING LINE
 (SWCHL OR SYCHL)
 (WHITE OR YELLOW)
 N.T.S.



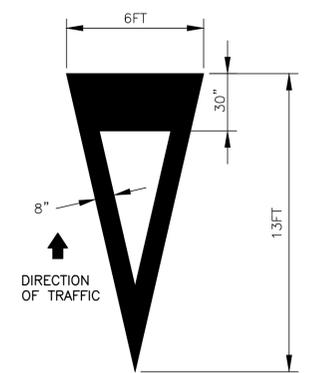
YIELD LINE - 12"
 (YL-12)
 N.T.S.



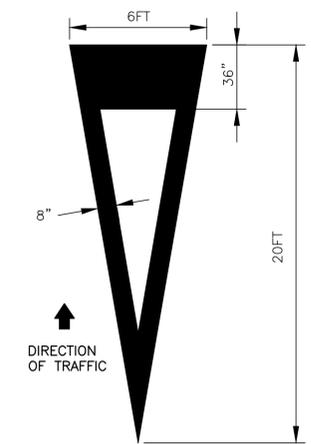
YIELD LINE - 24"
 (YL-24)
 N.T.S.



WHITE CHEVRON MARKING
 (WCM)
 (WHITE)
 N.T.S.

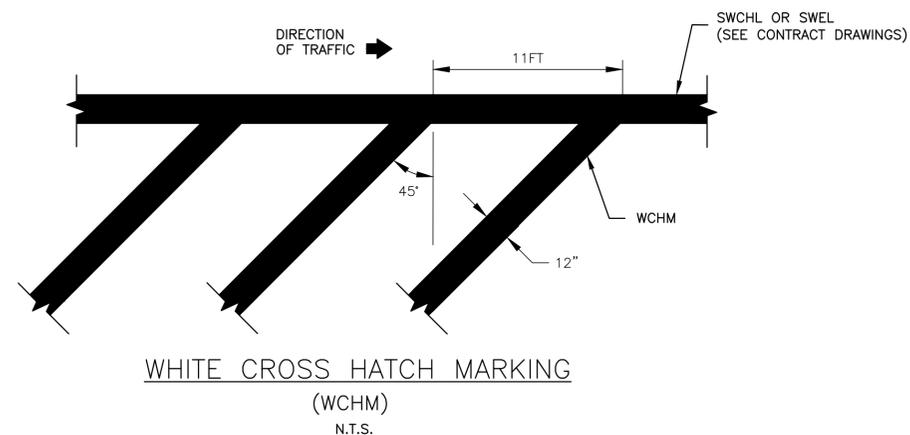
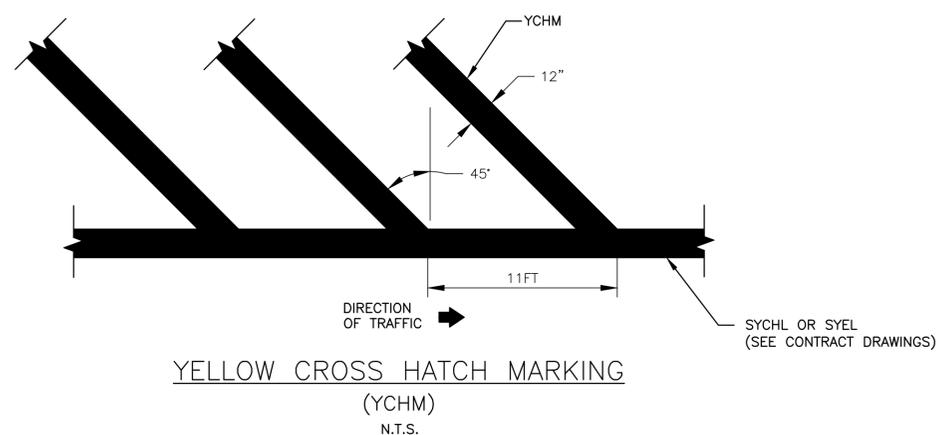


DETAIL OF "YIELD AHEAD"-A
 N.T.S.
 * SPEED LIMIT LESS THAN 45 MPH



DETAIL OF "YIELD AHEAD"-B
 N.T.S.
 * SPEED LIMIT 45 MPH OR GREATER

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**TRANSVERSE
MARKINGS
(2 of 2)**

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Designed by _____ Drawn by _____ Checked by _____
Date **1/07/2013**

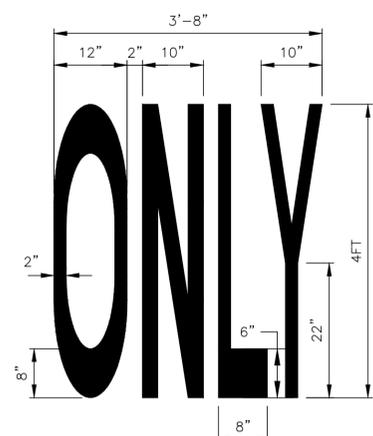
Contract Number _____

Drawing Number **TD50.03**
PID# _____

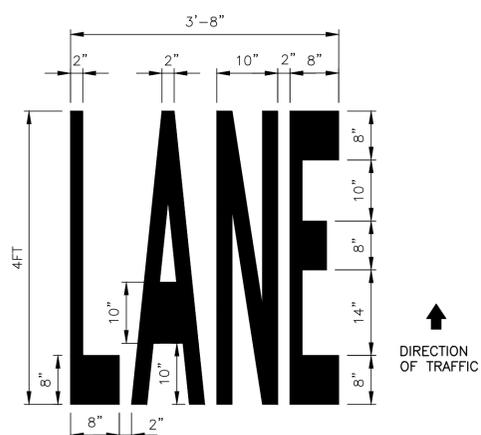
CHIEF

NOTES:

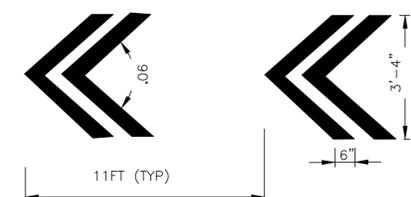
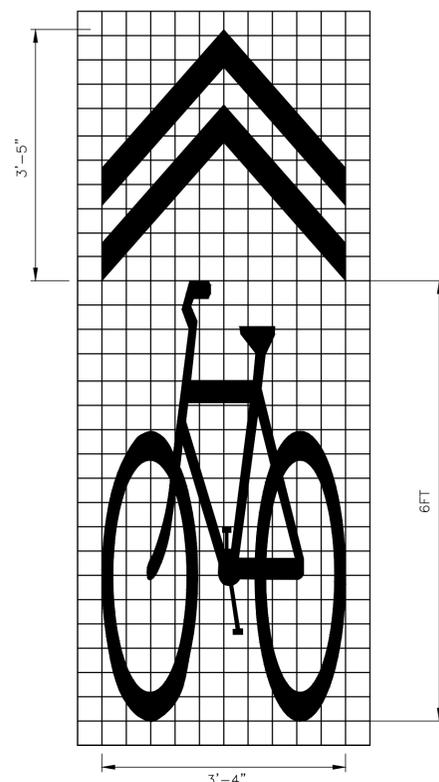
1. ALL MARKINGS SHALL BE SOLID WHITE.



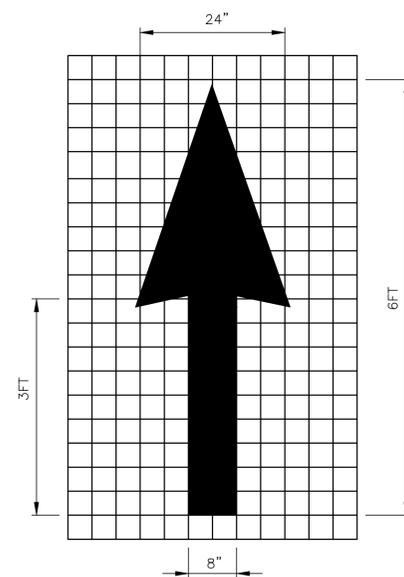
DETAIL OF WORD "ONLY"
N.T.S.



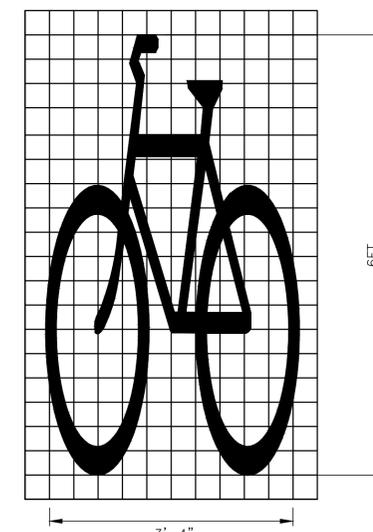
DETAIL OF WORD "LANE"
N.T.S.



SHARED BIKE LANE MARKINGS
N.T.S.

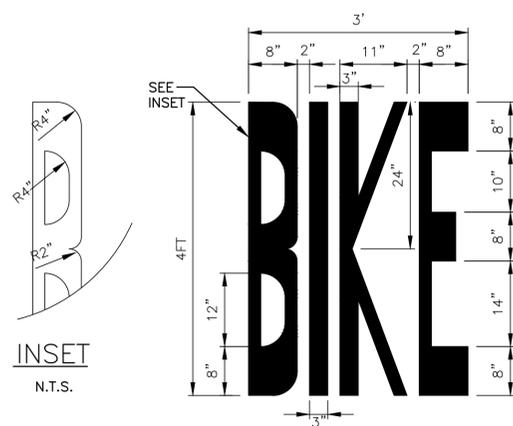


BICYCLE DIRECTIONAL ARROW
N.T.S.



BICYCLE SYMBOL
N.T.S.

□ = 4 INCH X 4 INCH



DETAIL OF WORD "BIKE"
N.T.S.

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PAVEMENT MARKINGS

**SYMBOL AND ARROW
MARKINGS
FOR BICYCLE LANE**

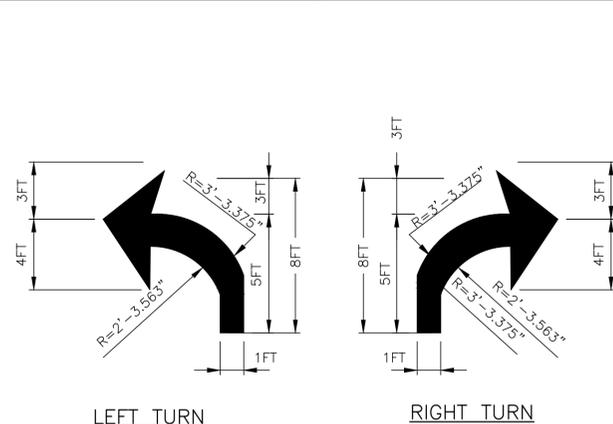
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Date _____ 1/07/2013

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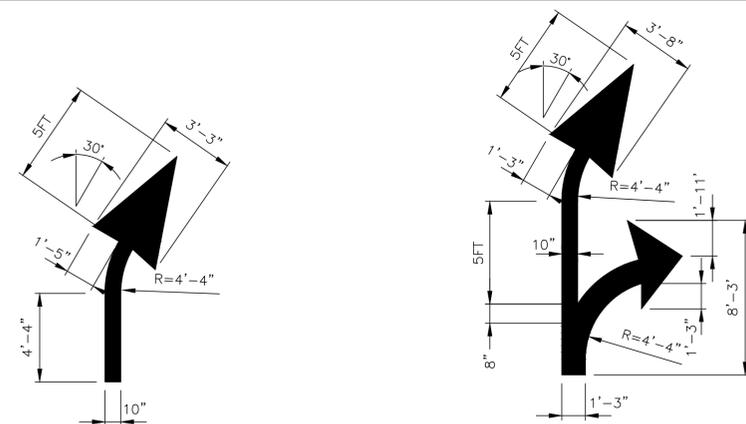
Drawing Number **TD50.04**
PID# _____

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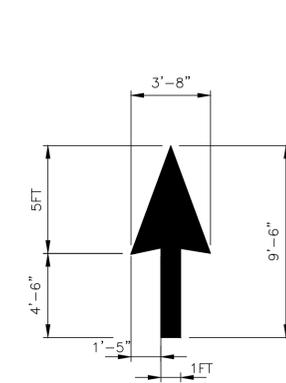


LEFT TURN

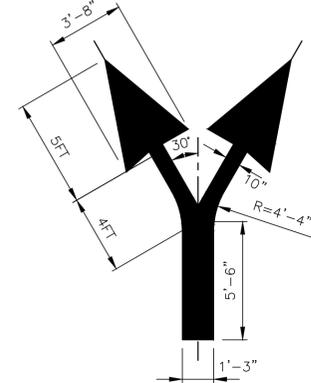
RIGHT TURN



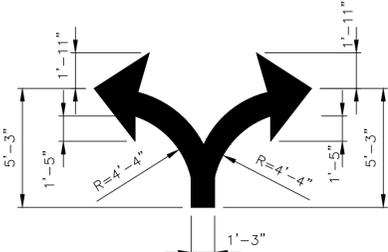
DETAIL OF ARROW SYMBOL 'A' N.T.S. DETAIL OF ARROW SYMBOL 'B' N.T.S. DETAIL OF ARROW SYMBOL 'C' N.T.S. DETAIL OF ARROW SYMBOL 'D' N.T.S. DETAIL OF ARROW SYMBOL 'E' N.T.S.



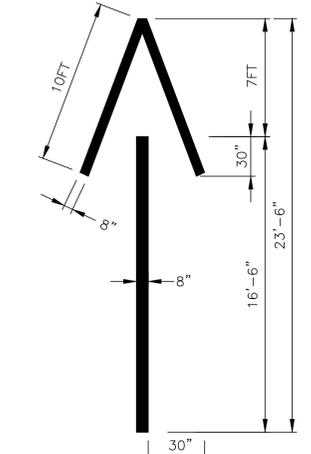
DETAIL OF ARROW SYMBOL 'F' N.T.S.



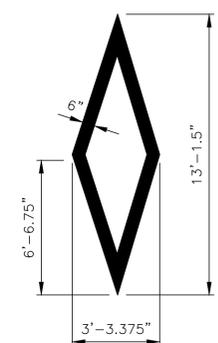
DETAIL OF ARROW SYMBOL 'G' N.T.S.



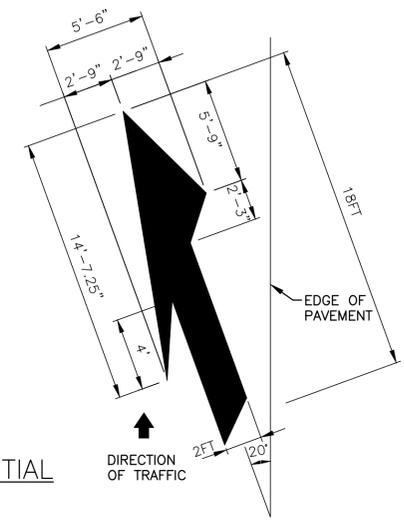
DETAIL OF ARROW SYMBOL 'H' N.T.S.



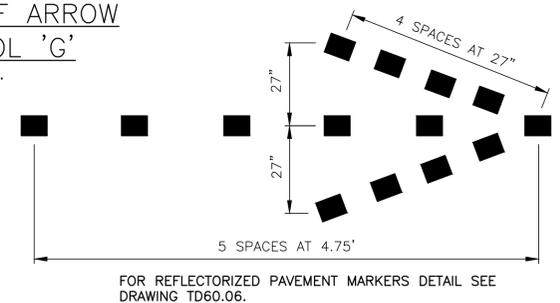
FREEWAY, EXPRESSWAY AND RAMP PAVEMENT ARROW N.T.S.



DETAIL OF PREFERENTIAL LANE SYMBOL N.T.S.

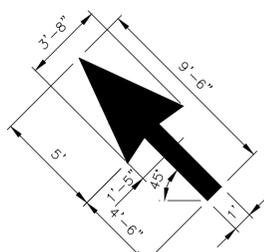


DETAIL OF LANE REDUCTION ARROW-RIGHT N.T.S.

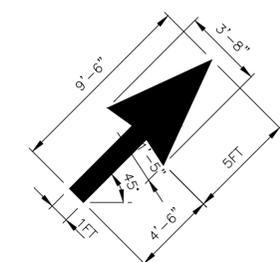


FOR REFLECTORIZED PAVEMENT MARKERS DETAIL SEE DRAWING TD60.06.

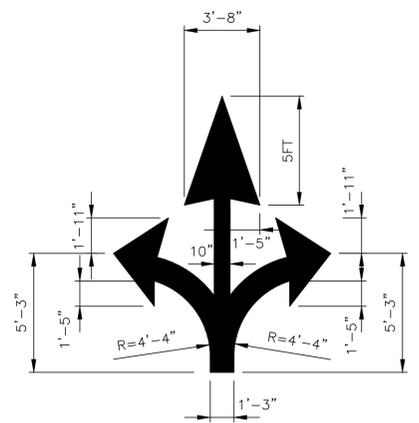
DETAIL OF "WRONG-WAY ARROW" USING WHITE RETROREFLECTIVE RAISED PAVEMENT MARKERS N.T.S.



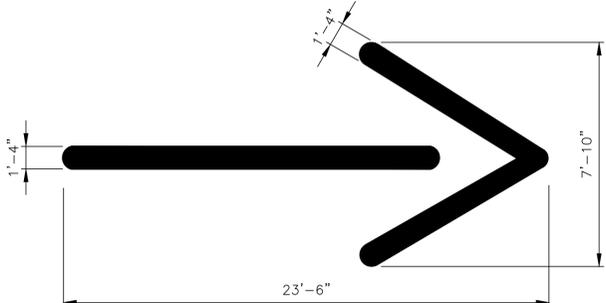
DETAIL OF ARROW SYMBOL 'J' MERGE LEFT N.T.S.



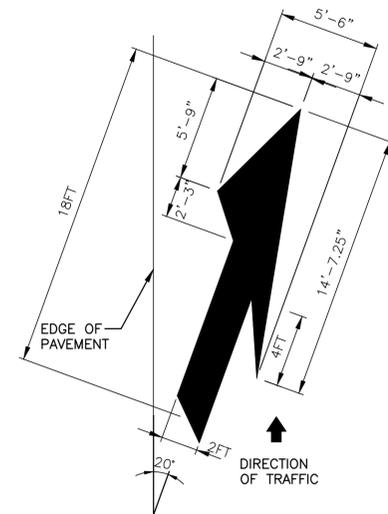
DETAIL OF ARROW SYMBOL 'K' MERGE RIGHT N.T.S.



DETAIL OF ARROW SYMBOL 'I' N.T.S.



DETAIL OF "WRONG-WAY ARROW" N.T.S.



DETAIL OF LANE REDUCTION ARROW-LEFT N.T.S.

NOTES:
ALL MARKINGS TO BE SOLID WHITE.

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TRAFFIC

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ARROW MARKINGS

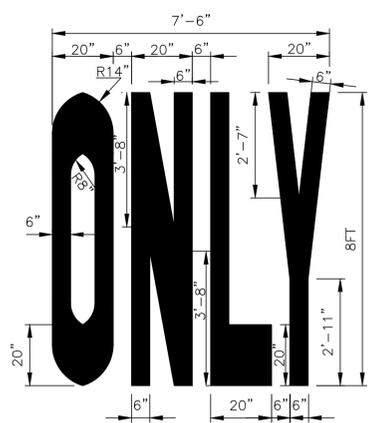
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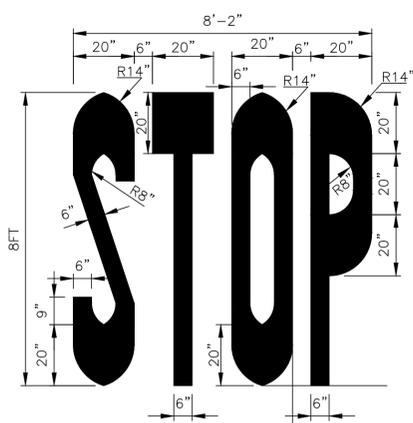
Contract Number _____

Drawing Number **TD50.05**
PID# _____

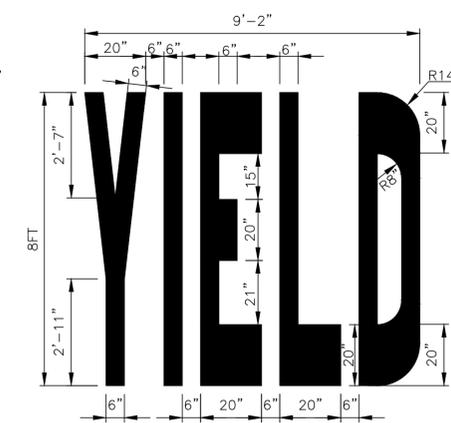
CHIEF



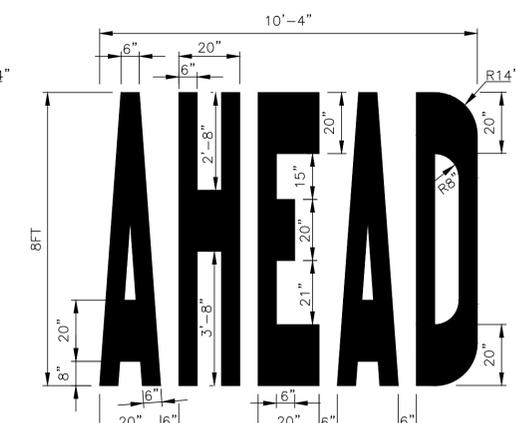
DETAIL OF WORD "ONLY"
N.T.S.



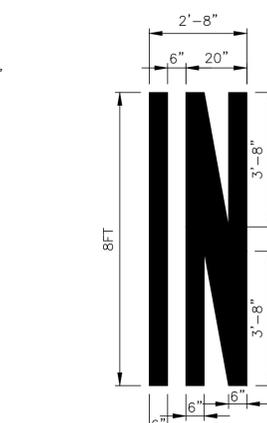
DETAIL OF WORD "STOP"
N.T.S.



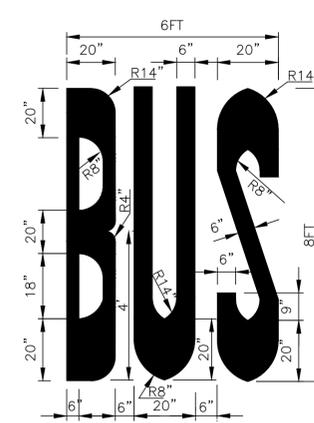
DETAIL OF WORD "YIELD"
N.T.S.



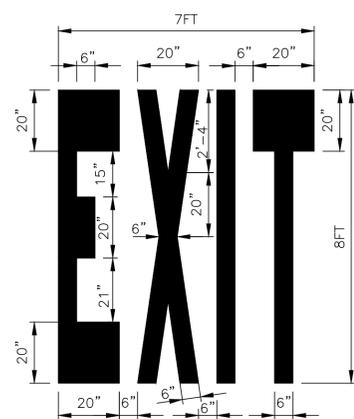
DETAIL OF WORD "AHEAD"
N.T.S.



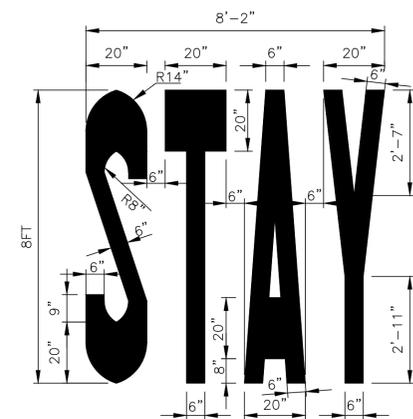
DETAIL OF WORD "IN"
N.T.S.



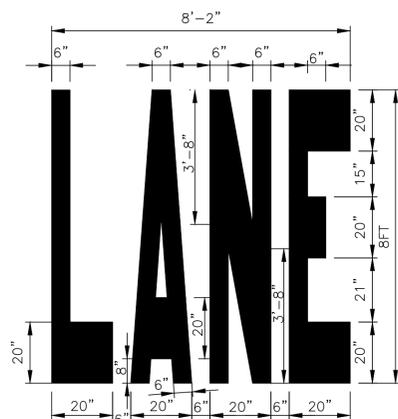
DETAIL OF WORD "BUS"
N.T.S.



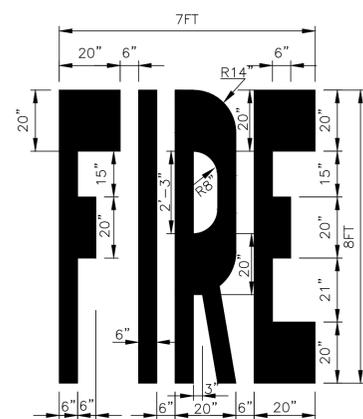
DETAIL OF WORD "EXIT"
N.T.S.



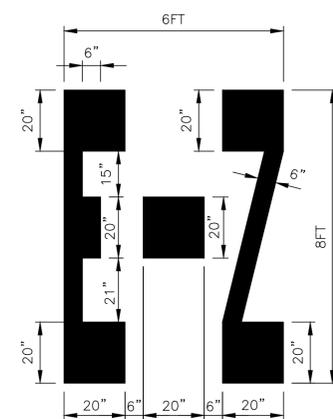
DETAIL OF WORD "STAY"
N.T.S.



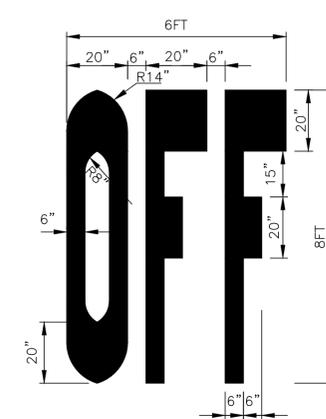
DETAIL OF WORD "LANE"
N.T.S.



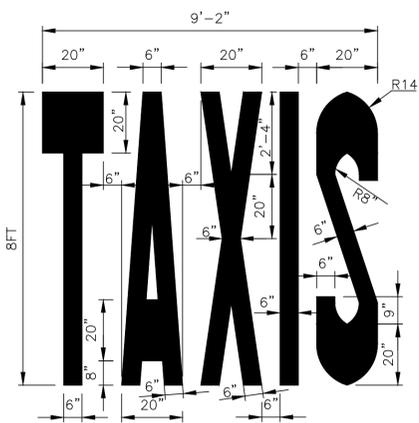
DETAIL OF WORD "FIRE"
N.T.S.



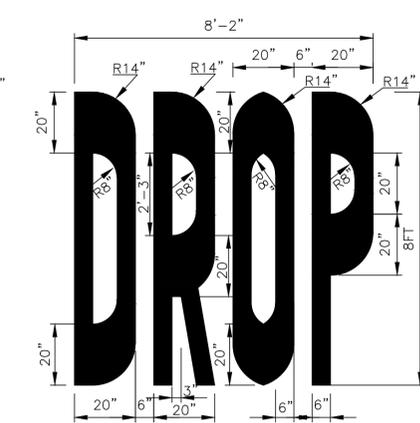
DETAIL OF WORD "E-Z"
N.T.S.



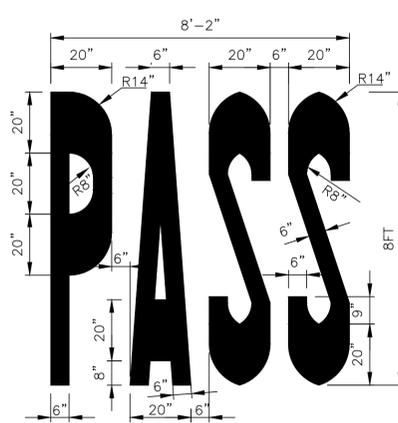
DETAIL OF WORD "OFF"
N.T.S.



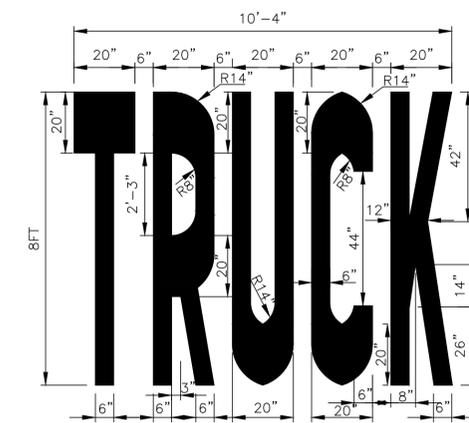
DETAIL OF WORD "TAXIS"
N.T.S.



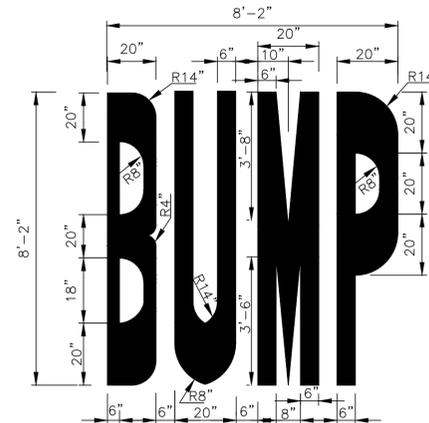
DETAIL OF WORD "DROP"
N.T.S.



DETAIL OF WORD "PASS"
N.T.S.



DETAIL OF WORD "TRUCK"
N.T.S.



DETAIL OF WORD "BUMP"
N.T.S.

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

PANYNJ
Traffic Standard
Details

TRAFFIC

Title

PAVEMENT MARKINGS

WORD MARKINGS
(1 OF 2)

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Designed by _____ Drawn by _____ Checked by _____

Date _____ 1/07/2013

Contract Number _____

Drawing Number **TD50.06**

PID#

CHIEF

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

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PAVEMENT MARKINGS

WORD MARKINGS
(2 OF 2)

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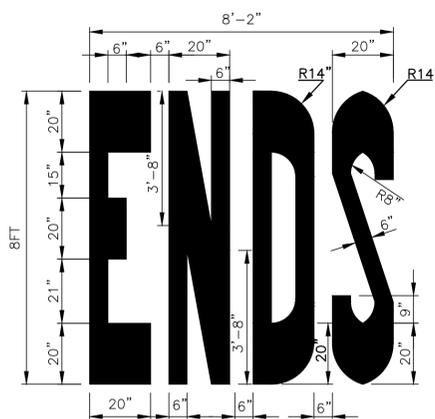
Designed by _____ Drawn by _____ Checked by _____

Date **1/07/2013**

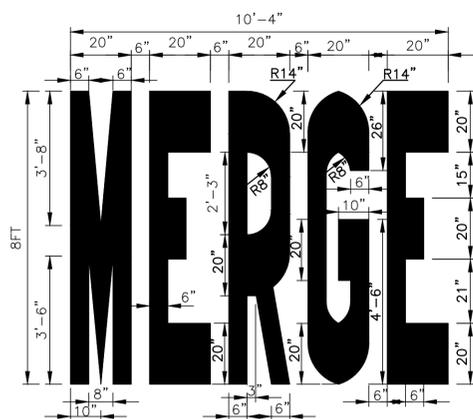
Contract Number _____

Drawing Number **TD50.07**

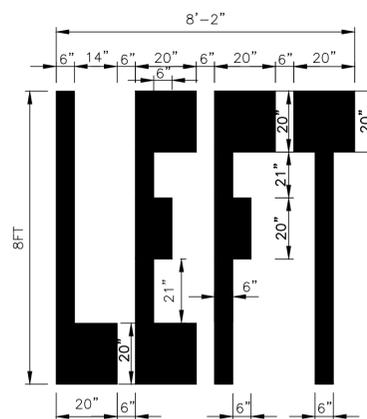
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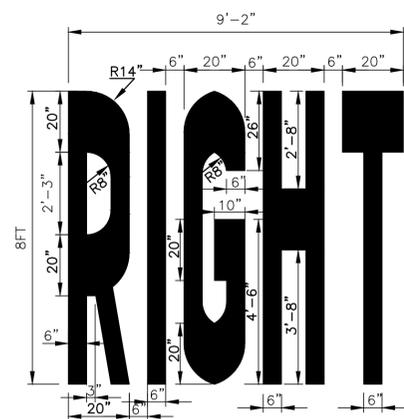
DETAIL OF WORD "ENDS"
N.T.S.



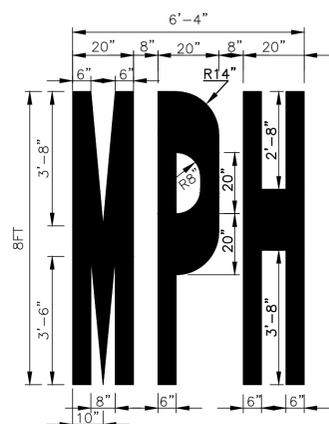
DETAIL OF WORD "MERGE"
N.T.S.



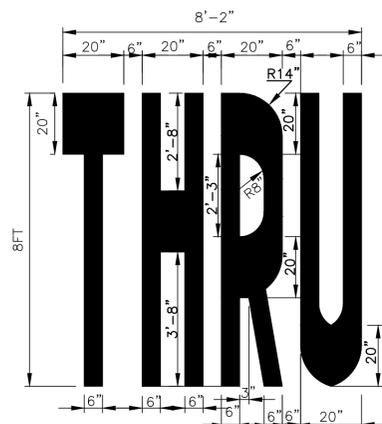
DETAIL OF WORD "LEFT"
N.T.S.



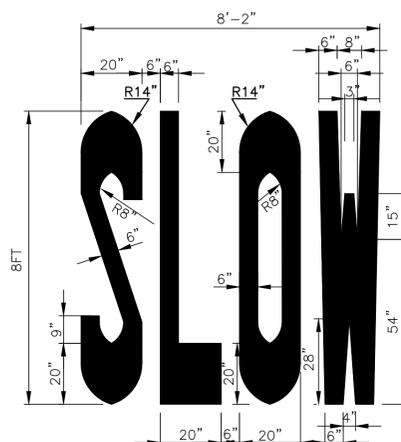
DETAIL OF WORD "RIGHT"
N.T.S.



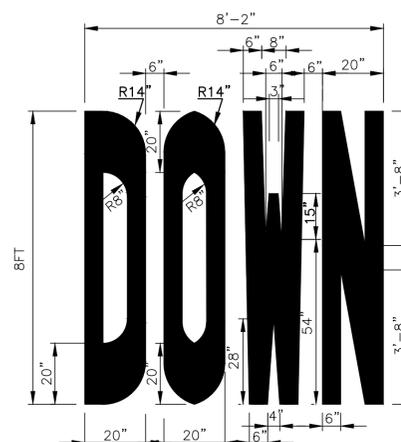
DETAIL OF WORD "MPH"
N.T.S.



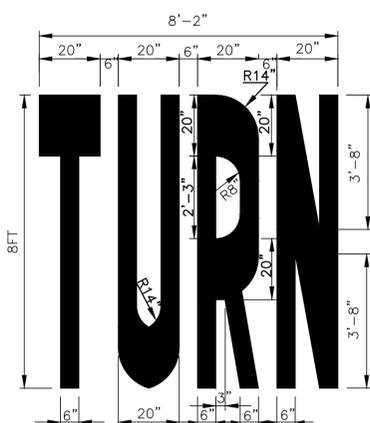
DETAIL OF WORD "THRU"
N.T.S.



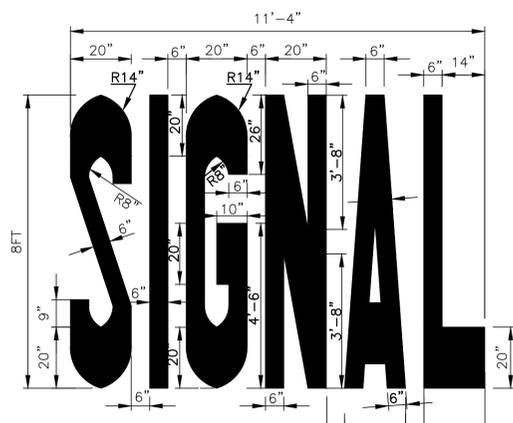
DETAIL OF WORD "SLOW"
N.T.S.



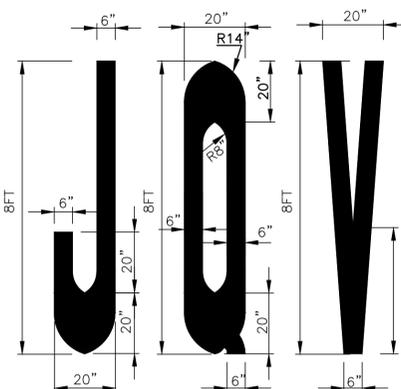
DETAIL OF WORD "DOWN"
N.T.S.



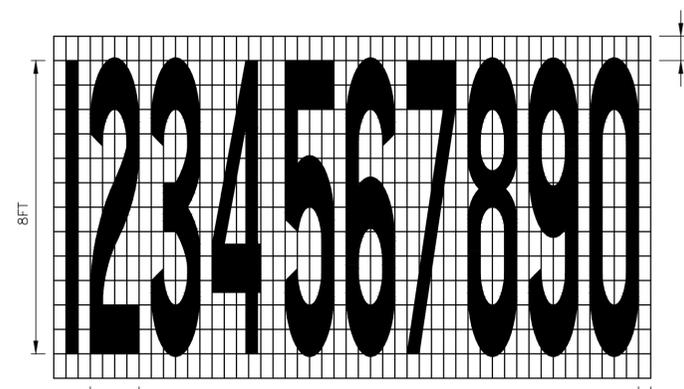
DETAIL OF WORD "TURN"
N.T.S.



DETAIL OF WORD "SIGNAL"
N.T.S.



DETAIL OF LETTERS "J,Q,V"
N.T.S.

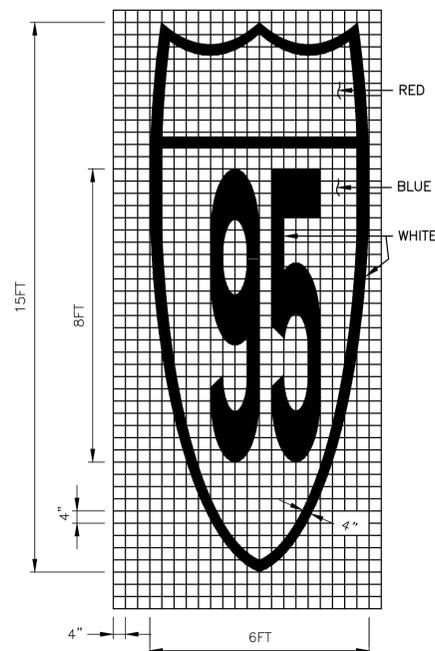


DETAIL OF NUMBERS "1 TO 0"
N.T.S.

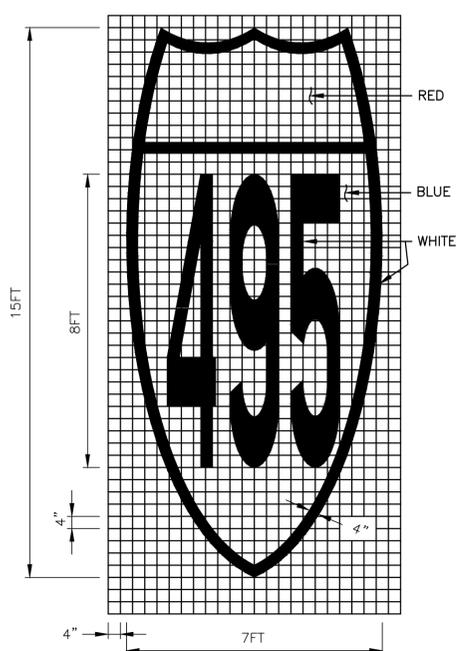
NOTES:

1. ALL WORD MARKINGS TO BE SOLID WHITE.

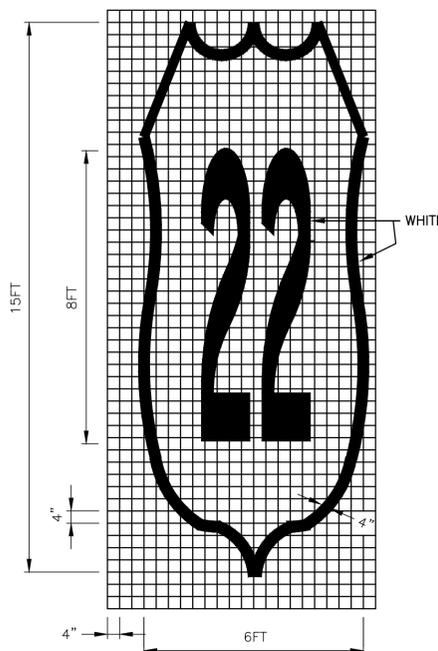
CHIEF



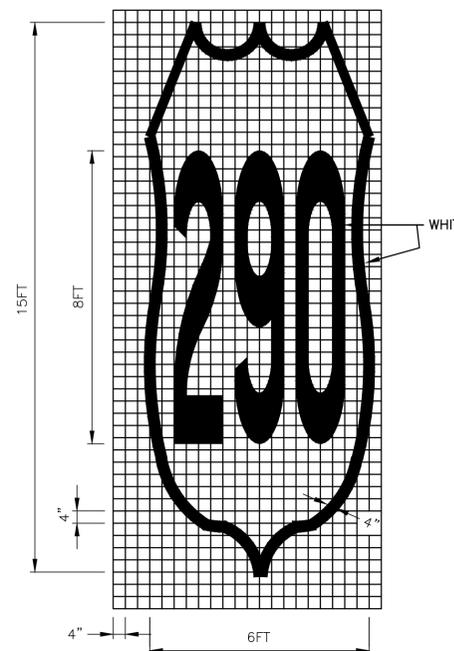
A-INTERSTATE SHIELD



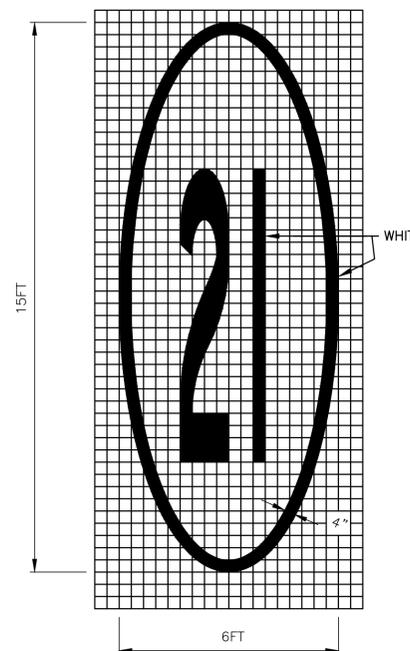
B-U.S. ROUTE SHIELD



SHIELD SYMBOLS
N.T.S.



C-STATE ROUTE SHIELD



No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

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TRAFFIC

Title

PAVEMENT MARKINGS

**ROUTE SHIELDS
AND
WORD MARKINGS**

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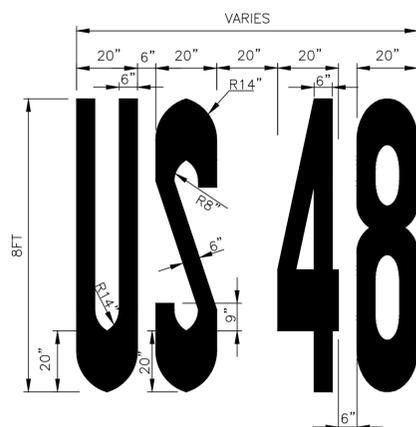
Designed by _____ Drawn by _____ Checked by _____

Date **1/07/2013**

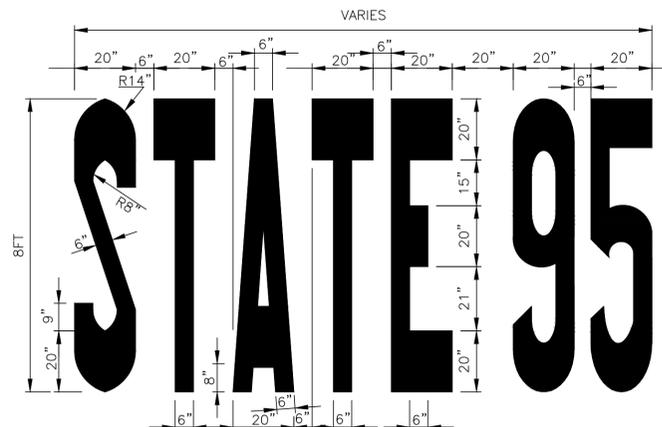
Contract Number _____

Drawing Number **TD50.08**

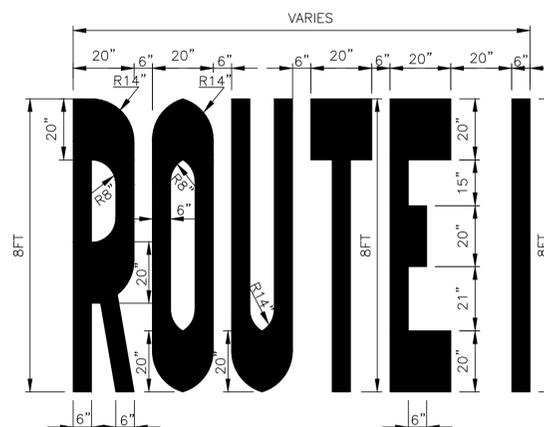
PID#



DETAIL OF WORD "US.."
N.T.S.



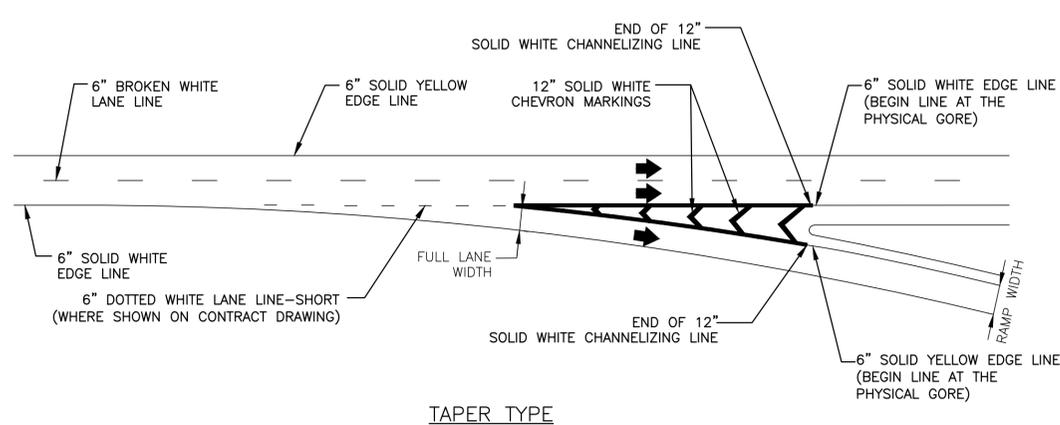
DETAIL OF WORD "STATE.."
N.T.S.



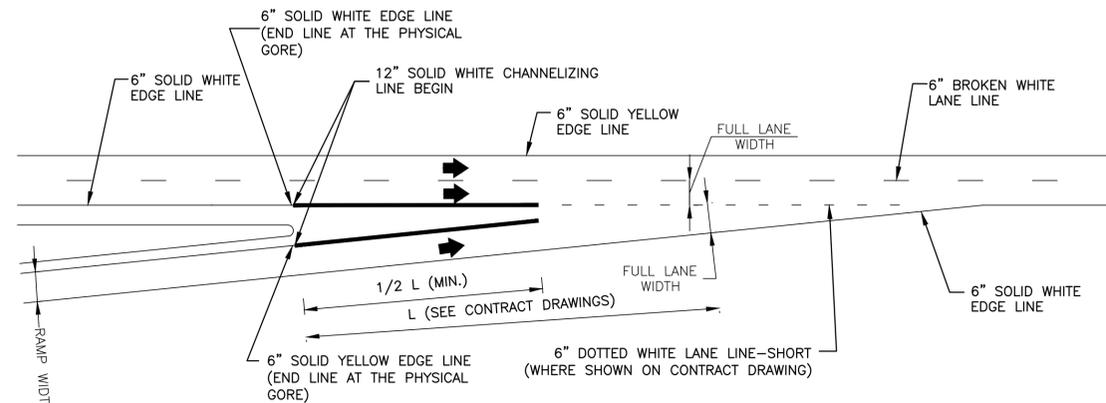
DETAIL OF WORD "ROUTE.."
N.T.S.

SYMBOLS:
L = ACCELERATION LANE.

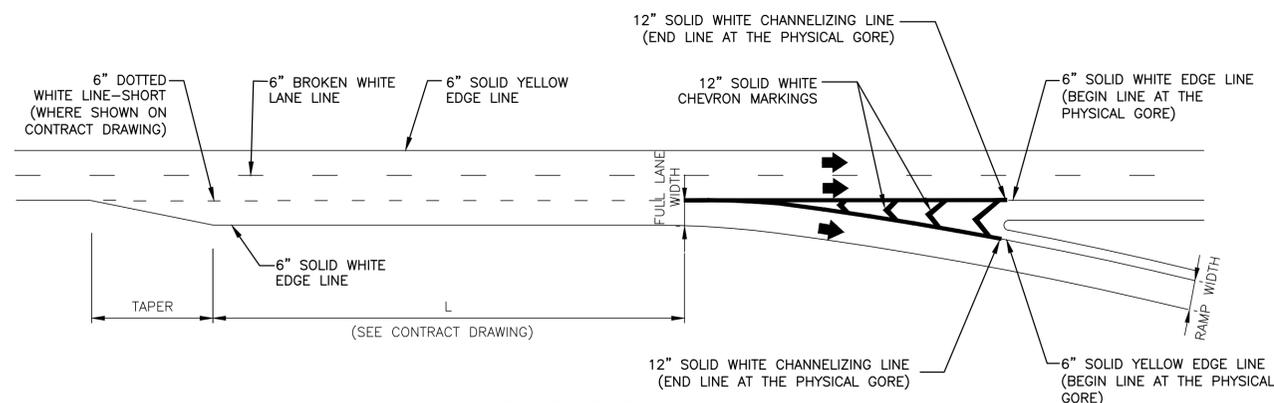
LEGEND:
➔ DIRECTION OF TRAFFIC



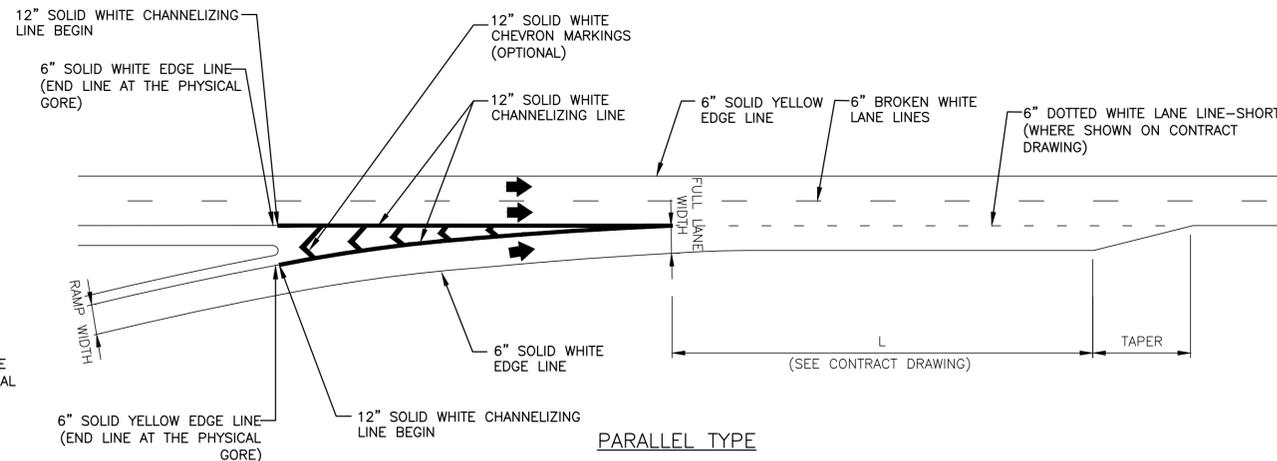
TAPER TYPE



TAPER TYPE



PARALLEL TYPE



PARALLEL TYPE

EXIT RAMP PAVEMENT MARKINGS

N.T.S.

ENTRANCE RAMP PAVEMENT MARKINGS

N.T.S.

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

PANYNJ

Traffic Standard

Details

TRAFFIC

Title
PAVEMENT MARKINGS

**LANE AND RAMP
PAVEMENT MARKINGS**

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Designed by _____ Drawn by _____ Checked by _____

Date **1/07/2013**

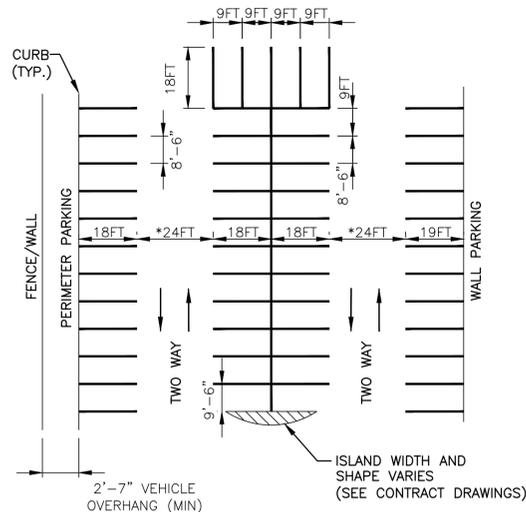
Contract Number _____

Drawing Number **TD50.09**

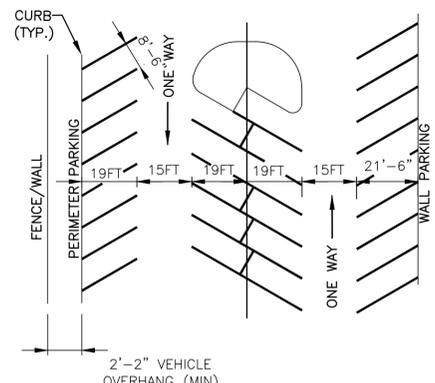
PID#

NOTES:

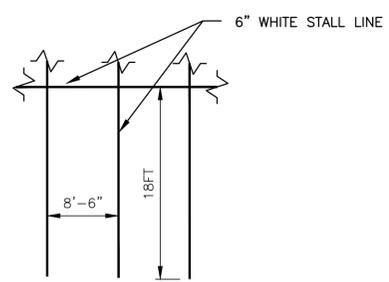
1. COLUMNS AND LIGHT POLES MAY PROTRUDE INTO THE PARKING MODULE A COMBINED MAXIMUM OF 2 FT. AS LONG AS THEY DO NOT AFFECT MORE THAN 25% OF THE STALLS IN THAT BAY.
2. COMPACT CAR ONLY STALLS 7'-6" WIDE 15'-0" LONG SHOULD ONLY BE USED AT CONSTRAINED LOCATIONS OR IN REMNANTS OF SPACE. THE NUMBER OF THESE STALLS SHOULD NOT EXCEED 15% OF THE TOTAL CAPACITY.
3. PRECAST CONCRETE WHEEL STOP SHALL BE SUBSTITUTED WHERE POSSIBLE BY AN APPROVED EQUAL USING RECYCLED MATERIAL AS APPROVED BY THE ENGINEER.



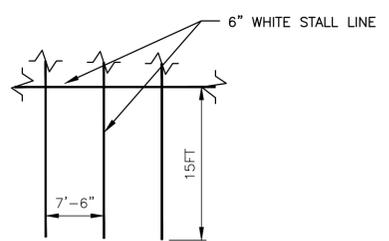
*30' MINIMUM WHEN BUS ROUTE PATH INCLUDED IN DESIGN



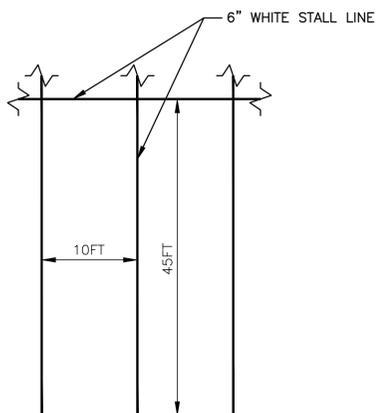
60° PARKING



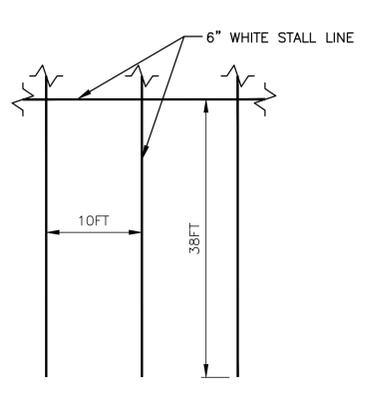
CAR STALL
N.T.S.



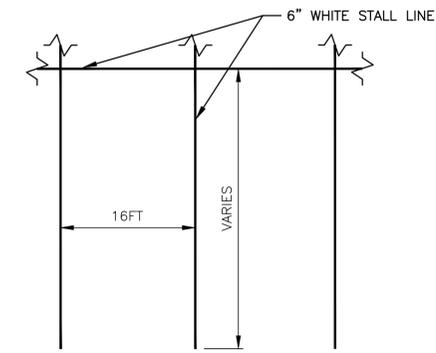
COMPACT CAR STALL
N.T.S.



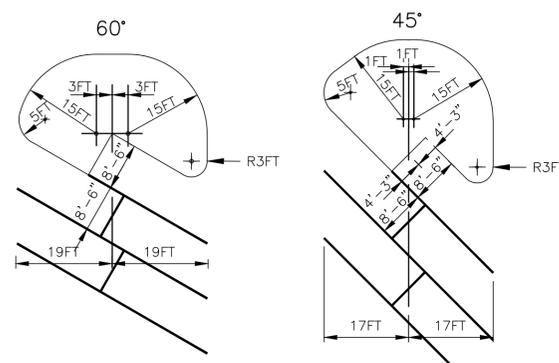
BUS STALL
N.T.S.



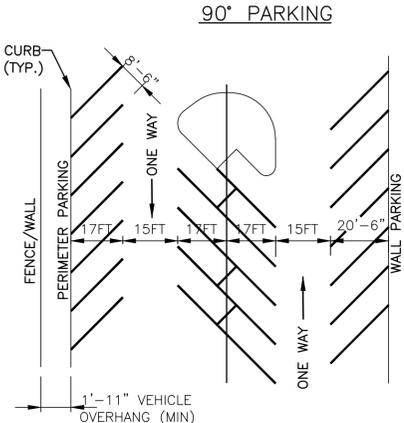
LIMO STALL
N.T.S.



WIDE-LOAD TRUCK STALL
N.T.S.



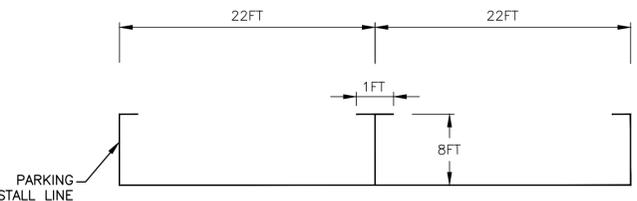
END TREATMENT



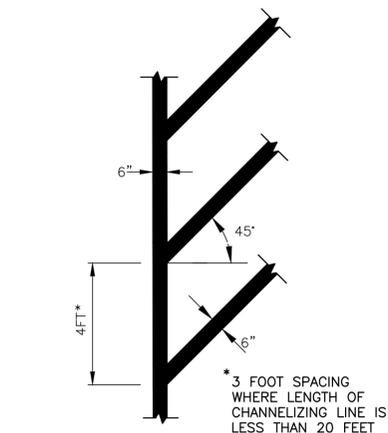
90° PARKING

45° PARKING

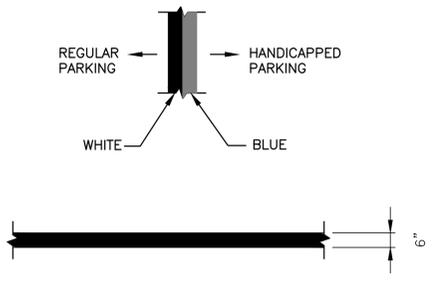
TYPICAL PARKING BAY
N.T.S.



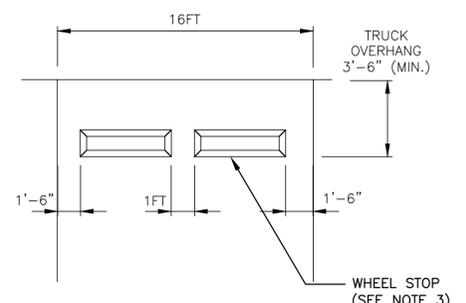
PARALLEL PARKING
N.T.S.



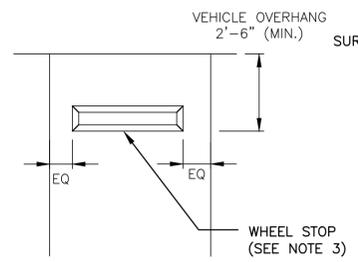
PARKING LOT SOLID CHANNELIZING LINE (SWCHL OR SYCHL) (WHITE OR YELLOW) N.T.S.



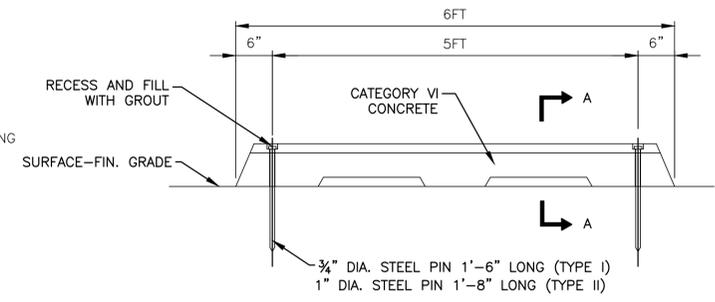
PARKING STALL LINE (SWPSL OR SBPSL) (WHITE OR BLUE-HANDICAPPED) PARKING LOTS ONLY N.T.S.



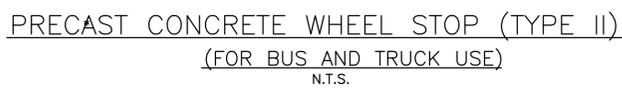
WIDE-LOAD TRUCK WHEEL STOP PLACEMENT N.T.S.



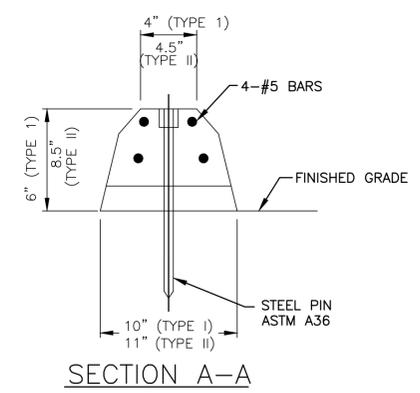
WHEEL STOP PLACEMENT N.T.S.



PRECAST CONCRETE WHEEL STOP (TYPE I) (FOR AUTOMOBILE USE) N.T.S.



PRECAST CONCRETE WHEEL STOP (TYPE II) (FOR BUS AND TRUCK USE) N.T.S.



SECTION A-A

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

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Traffic Standard
Details**

TRAFFIC

Title

PAVEMENT MARKINGS

PARKING LOT MARKINGS

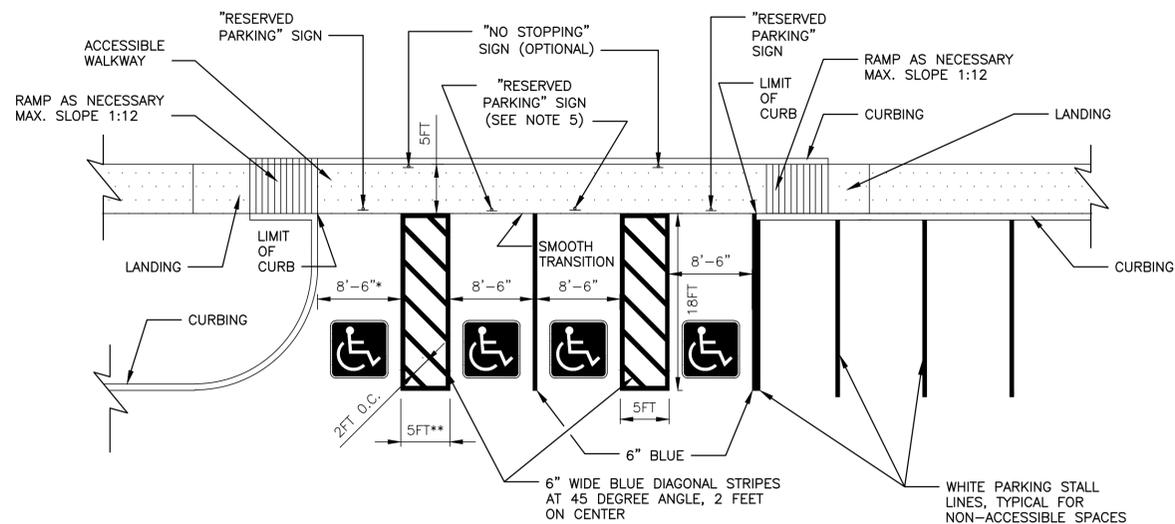
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Designed by _____ Drawn by _____ Checked by _____

Date **1/07/2013**

Contract Number _____

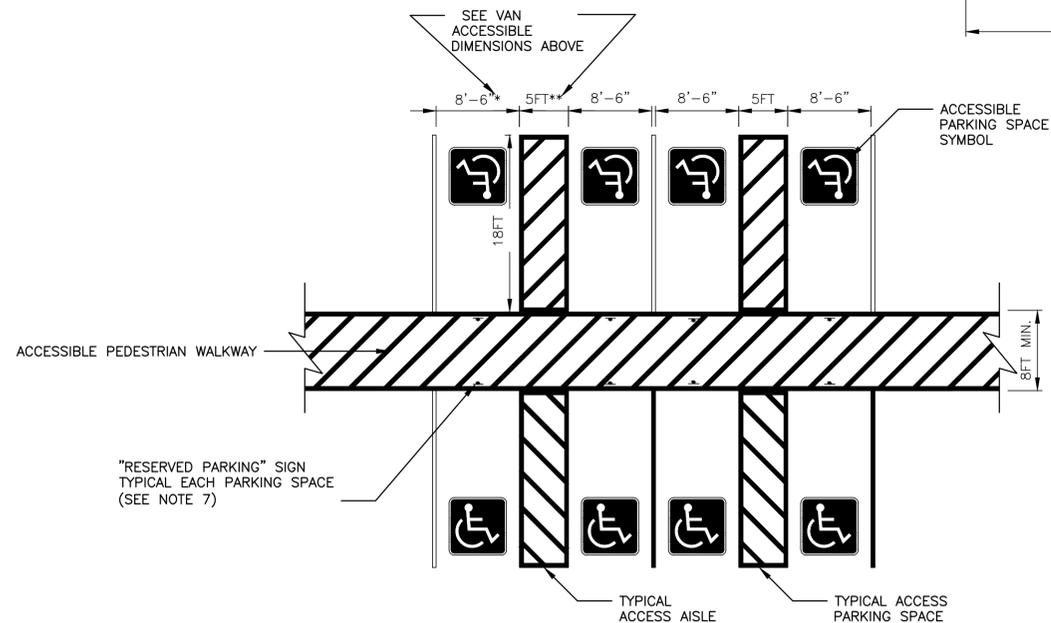
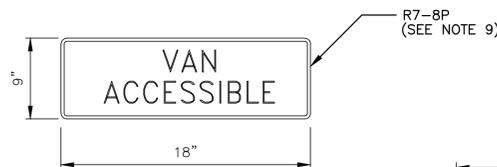
Drawing Number **TD50.10**
PID# _____



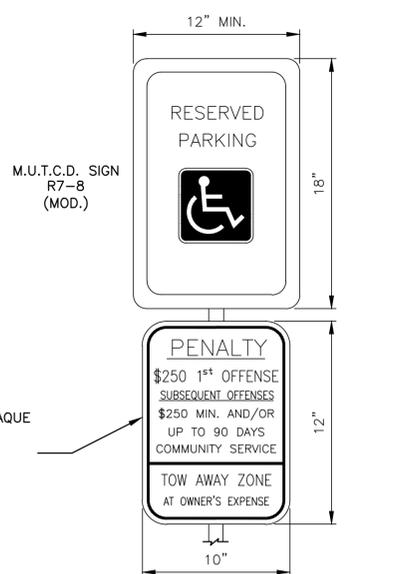
TYPICAL ACCESSIBLE PARKING LAYOUT

FOR VAN ACCESSIBLE

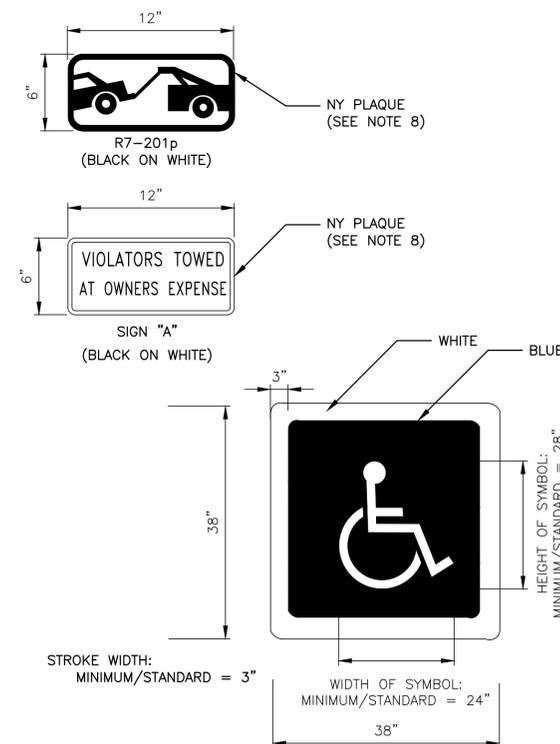
{*8.5FT} {**11FT}
{**8.0FT} OR {**5FT}
NOTE: THE VAN ACCESSIBLE SPACE MUST BE SIGNED WITH VAN ACCESSIBLE PLAQUE BELOW THE RESERVED PARKING SIGN (ALSO SEE NOTE 7)



TYPICAL ACCESSIBLE PARKING LAYOUT



TYPICAL FOR PARKING SPACE



DETAIL OF INTERNATIONAL SYMBOL OF ACCESSIBILITY PARKING SPACE MARKING WITH BLUE BACKGROUND AND WHITE BORDER

N.T.S.

NOTES:

- THIS SHEET IS INTENDED TO DEPICT THE DIMENSIONAL REQUIREMENTS OF TYPICAL ACCESSIBLE PARKING SPACES. THE SIDEWALK, CURBING, AND PAVEMENT MATERIALS SHALL BE AS SPECIFIED ELSEWHERE IN THE CONTRACT DRAWING.
 - MINIMUM NUMBER OF SPACES IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG),
- | TOTAL SPACES IN LOT | MINIMUM NUMBER OF ACCESSIBLE SPACES | VAN ACCESSIBLE |
|---------------------|-------------------------------------|----------------|
| 1 TO 25 | 1 | 1 |
| 26 TO 50 | 2 | 1 |
| 51 TO 75 | 3 | 1 |
| 76 TO 100 | 4 | 1 |
| 101 TO 150 | 5 | 1 |
| 151 TO 200 | 6 | 1 |
| 201 TO 300 | 7 | 2 |
| 301 TO 400 | 8 | 2 |
| 401 TO 500 | 9 | 2 |
| 501 TO 1000 | 2% OF TOTAL | 4 |
| 1001 AND OVER | 20 PLUS 1 FOR EACH 100 OVER 1000 | TBD |
- LOCATION - PARKING SPACES FOR USE BY PERSONS WITH DISABILITIES SHALL BE THE SPACES CLOSEST TO THE NEAREST ACCESSIBLE BUILDING OR FACILITY ENTRANCE ON AN ACCESSIBLE ROUTE.
 - ACCESS AISLES ADJACENT TO ACCESSIBLE PARKING - EACH ACCESSIBLE PARKING SPACE REQUIRES AN ACCESS AISLE. TWO ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE AS SHOWN IN THE CONTRACT DRAWING.
 - ACCESSIBLE PARKING SPACE SIGNAGE - EACH ACCESSIBLE PARKING SPACE SHALL BE MARKED BY AN ABOVE GROUND SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE BOTTOM OF THE SIGN MUST BE AT LEAST 7 FEET ABOVE THE WALKWAY SURFACE.
 - OVERHEAD CLEARANCE - VEHICLE ACCESS ROUTES TO AND FROM ACCESSIBLE PARKING SPACES, INCLUDING IN GARAGES AND OPEN PARKING STRUCTURES, SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 9'-6".
 - FOR NEW JERSEY FACILITY, USE "NJ PENALTY PLAQUE" R(NJ)7-8P BELOW R7-8(MOD.) SIGN. THE SIGN MUST BE AT LEAST 7 FEET ABOVE THE WALKWAY SURFACE.
 - FOR NEW YORK FACILITY, USE R7-201p OR SIGN "A" ABOVE R7-8 SIGN.
 - VAN ACCESSIBLE SIGN, IF REQUIRED, SHALL BE MOUNTED UNDER R7-8(MOD.) SIGN.

No.	Date	Revision	Approved
1	10/20/14	R7-8 SIGN PANEL MODIFICATION, ADD NOTE 9	

ENGINEERING DEPARTMENT

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TRAFFIC

Title
PAVEMENT MARKINGS

ACCESSIBLE PARKING FOR PEOPLE WITH DISABILITIES

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Designed by _____ Drawn by _____ Checked by _____

Date 1/07/2013

Contract Number

Drawing Number TD50.11

PID#

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT

PANYNJ
Traffic Standard
Details

TRAFFIC

Title **PAVEMENT MARKINGS**

INTERSECTION MARKINGS

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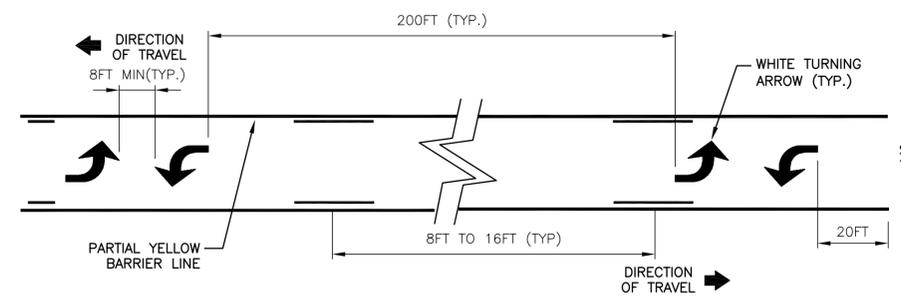
Designed by _____ Drawn by _____ Checked by _____
Date **1/07/2013**

Contract Number _____

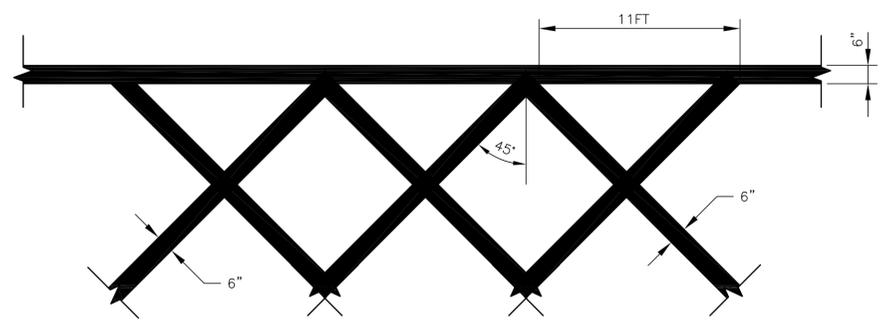
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NOTES:

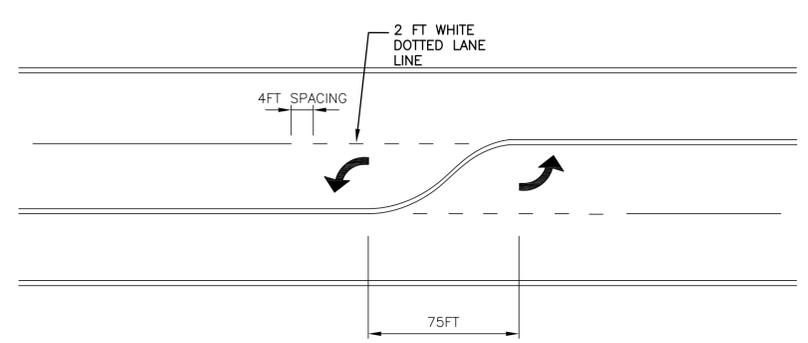
- IF TURNING LANE LENGTH (L) IS LESS THAN 90 FT. ONLY ONE SET OF MARKINGS SHALL BE PLACED 20 FT. FROM THE STOP LINE.
- IF L IS BETWEEN 90 FT. AND 135 FT., TWO SETS OF MARKINGS SHALL BE PLACED AS SHOWN IN THE DETAIL EXCEPT THE 80 FT SPACING MAY BE REDUCED TO 25 FT.
- IF L IS BETWEEN 135 FT. AND 250 FT., TWO SETS OF MARKINGS SHALL BE PLACED AS SHOWN IN THE DETAIL.
- IF L IS BETWEEN 250 FT AND 500 FT, THREE SETS OF MARKINGS SHALL BE PLACED AT SPACING SHOWN IN THE DETAIL, WITH THE THIRD SET LOCATED 35 FT FROM END OF BAY (POINT OF FULL LANE WIDTH).
- IF L IS GREATER THAN 500 FT., REFER TO THE CONTRACT DRAWING OR ENGINEER FOR GUIDANCE.
- AT AN UNCONTROLLED APPROACH (NO SIGNAL, STOP OR YIELD SIGN), DELETE THE STOP BAR.
- ARROW AND "ONLY" SHALL BE CENTERED IN LANE.



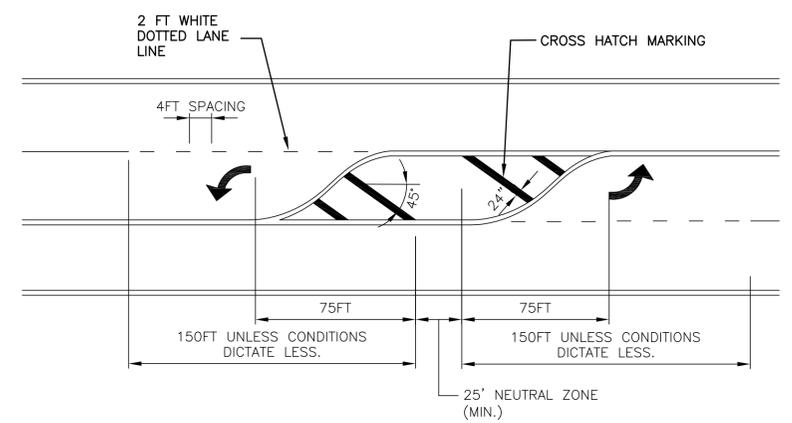
TWO-WAY LEFT TURN LANE DETAIL
N.T.S.



DON'T BLOCK THE BOX MARKING
(WHITE)
N.T.S.

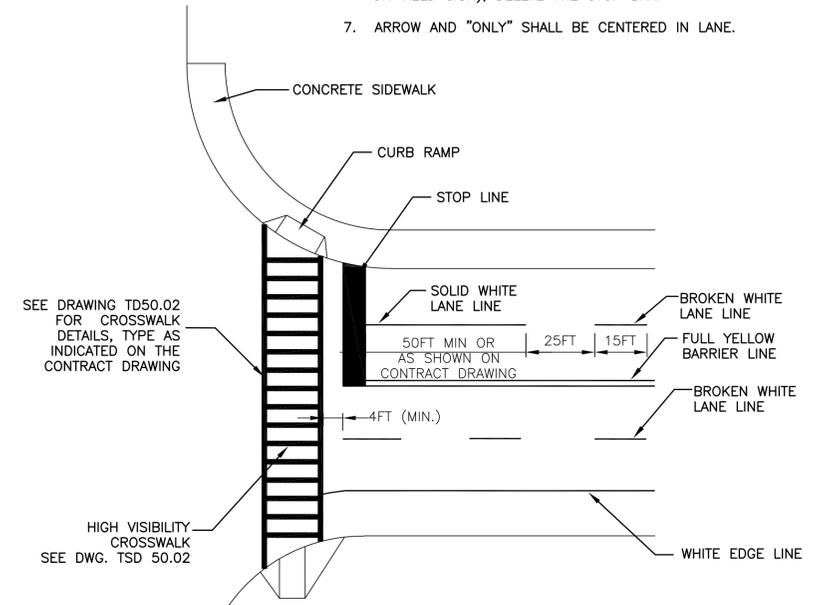


METHOD 1

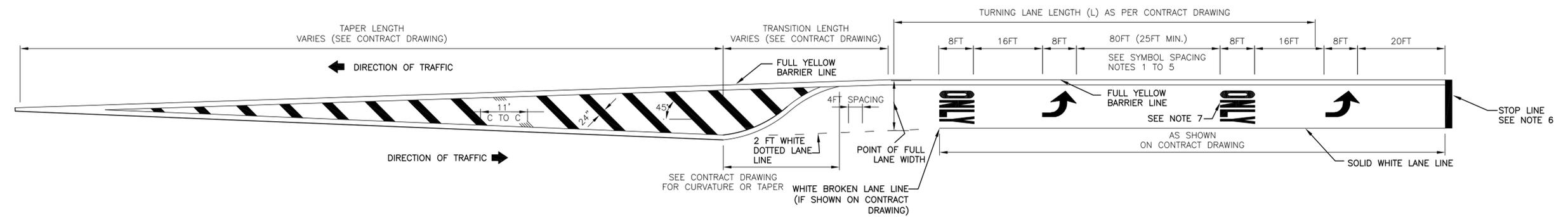


METHOD 2

TYPICAL PAVEMENT MARKING FOR LEFT TURN PAVEMENT MARKED MEDIAN
N.T.S.



TYPICAL INTERSECTION MARKINGS WITH CROSSWALK
N.T.S.



CHANNELIZED ISLAND DETAIL AND LEFT TURN LANE MARKING (RIGHT TURN LANE SIMILAR)
N.T.S.

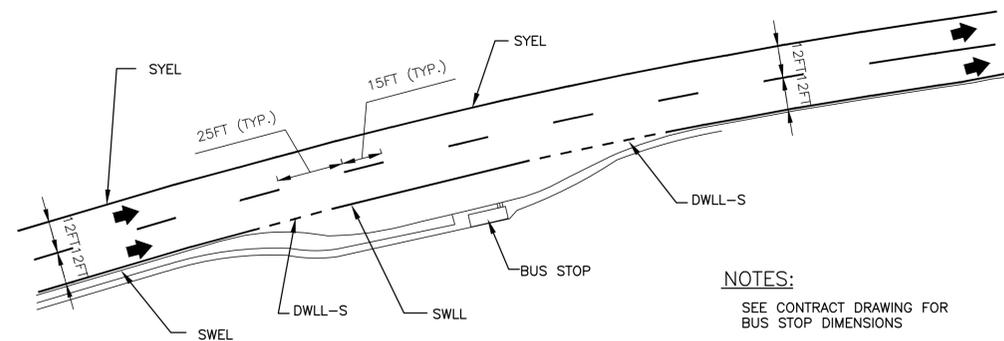
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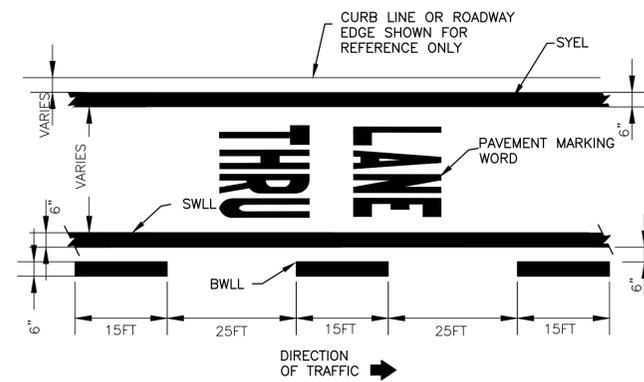
Drawing Number **TD50.13**

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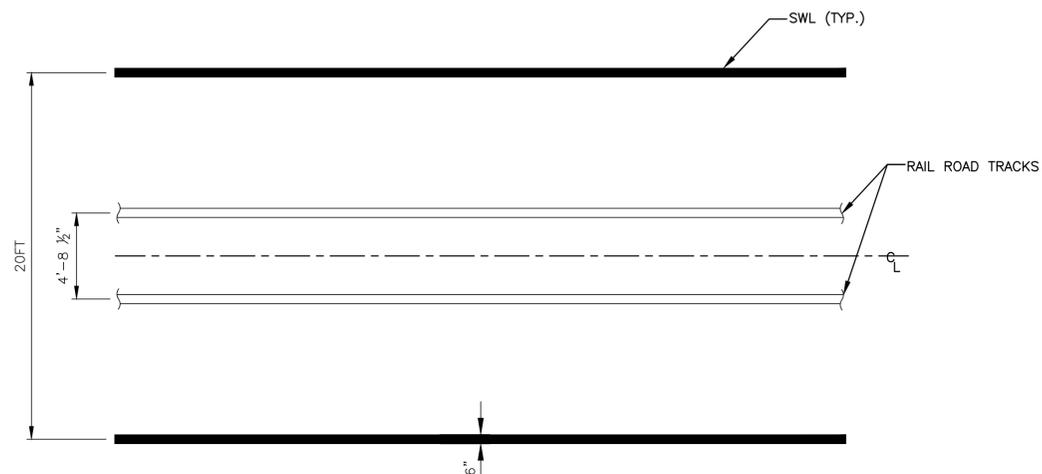


NOTES:
SEE CONTRACT DRAWING FOR
BUS STOP DIMENSIONS

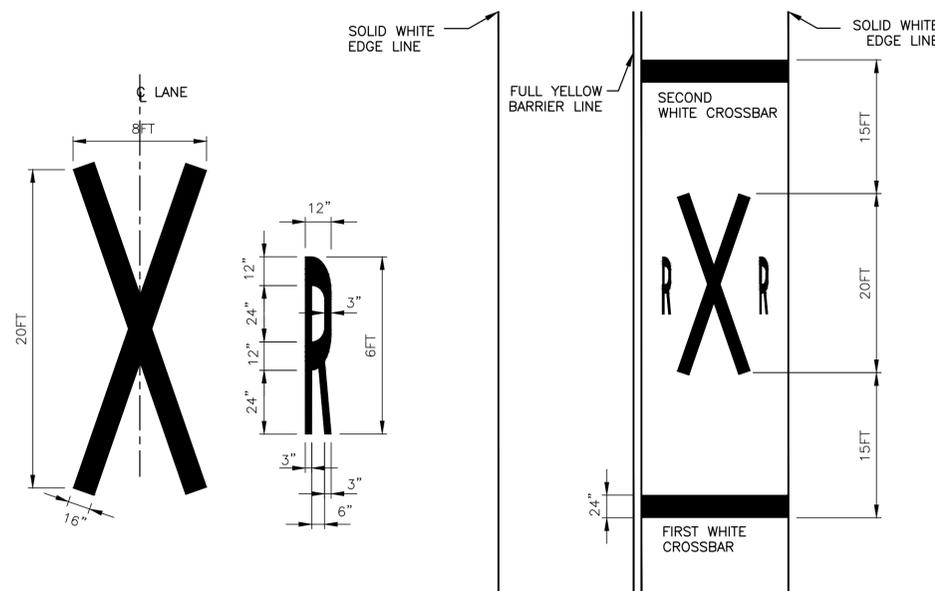
TYPICAL BUS STOP MARKING
N.T.S.



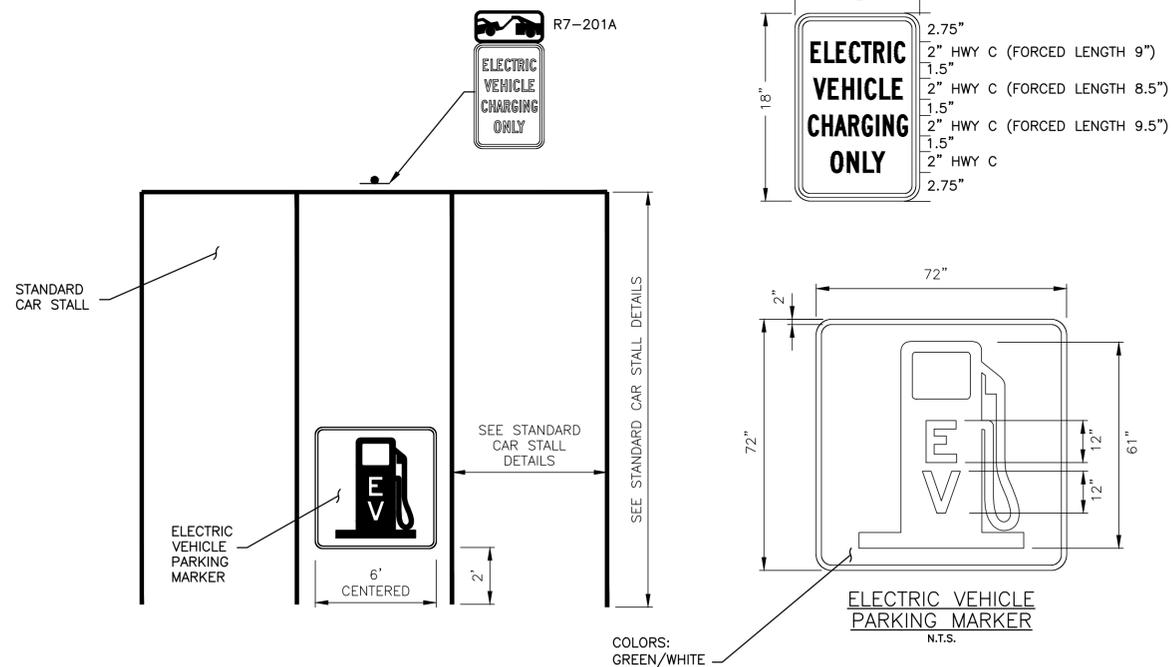
THRU LANE PAVEMENT MARKING
N.T.S.



DYNAMIC ENVELOPE MARKING
(WHITE)
N.T.S.



RAILROAD GRADE CROSSING MARKINGS
(RGCM)
N.T.S.



ELECTRIC VEHICLE PARKING MARKER LAYOUT
N.T.S.

COLORS:
GREEN/WHITE

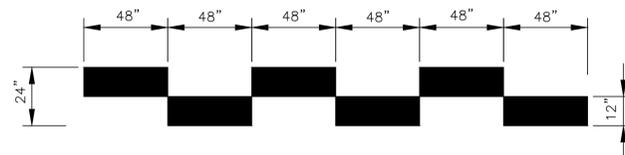
CHIEF



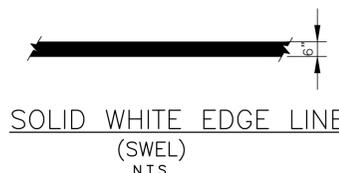
BROKEN WHITE LANE LINE
(BWLL)
N.T.S.



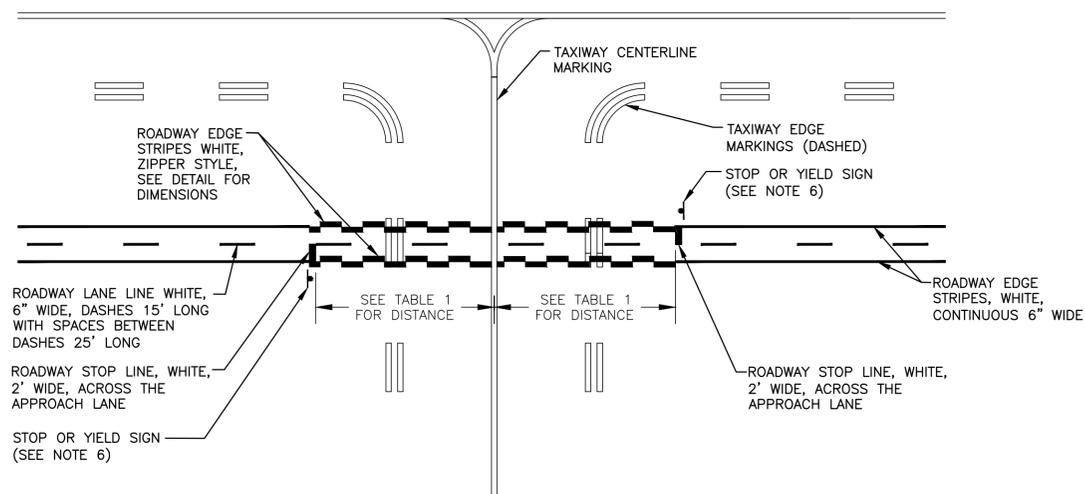
SOLID WHITE STOP LINE - AIR SIDE
(SL-AS)
N.T.S.



ZIPPER WHITE EDGE LINE
(ZWEL)
N.T.S.



SOLID WHITE EDGE LINE
(SWEL)
N.T.S.



TYPICAL ROADWAY-TAXIWAY DESIGN
(SEE NOTE 5)
N.T.S.

TABLE 1
PERPENDICULAR DISTANCES
FOR TAXIWAY INTERSECTION MARKINGS
FROM CENTERLINE OF CROSSING TAXIWAY
(SEE FAA AC 150/5340-1)

AIRPLANE DESIGN GROUP*					
I	II	III	IV	V	VI
44.5 FT	65.5 FT	93 FT	129.5 FT	160 FT	193 FT

* DESIGN GROUPS ARE BASED ON WING SPAN OR TAIL HEIGHT AND CATEGORY DEPENDS ON APPROACH SPEED OF THE AIRCRAFT AS SHOWN IN TABLE 2.

TABLE 2
FAA AIRPLANE DESIGN GROUP
(SEE FAA AC 150/5300-13)

AIRPLANE DESIGN GROUP	CATEGORY
GROUP I : WING SPAN UP TO 49 FT.	CATEGORY A: SPEED LESS THAN 91 KNOTS
GROUP II : WING SPAN 49 FT. UP TO 73 FT.	CATEGORY B: SPEED 91 KNOTS UP TO 120 KNOTS
GROUP III : WING SPAN UP TO 79 FT. TO 117 FT.	CATEGORY C: SPEED 121 KNOTS UP TO 140 KNOTS
GROUP IV : WING SPAN UP TO 113 FT. TO 170 FT.	CATEGORY D: SPEED 141 KNOTS UP TO 165 KNOTS
GROUP V : WING SPAN UP TO 171 FT. TO 213 FT.	CATEGORY E: SPEED 166 KNOTS OR MORE
GROUP VI : WING SPAN UP TO 214 FT. TO 261 FT.	

AIRSIDE MARKINGS AND SIGN PLACEMENT NOTES:

SIGNS

- SIGNS ARE TO BE IN ACCORDANCE WITH THE LATEST VERSION OF AC 150/5345-44, "SPECIFICATIONS FOR TAXIWAY AND RUNWAY SIGNS."
- VEHICLE ROADWAYS THAT INTERSECT RUNWAYS OR TAXIWAYS SHOULD HAVE A RETRO REFLECTIVE HIGHWAY STOP SIGN ON THEM PRIOR TO THE INTERSECTION. AT INTERSECTIONS WITH TAXIWAYS, IT IS PERMISSIBLE TO USE A STANDARD RETRO REFLECTIVE HIGHWAY YIELD SIGN IN LIEU OF A STOP SIGN. THESE SIGNS SHOULD BE LOCATED AT THE EDGE OF THE APPLICABLE RUNWAY SAFETY AREA (RSA), OBSTACLE FREE ZONE (OFZ) OR TAXIWAY SAFETY AREA (TSA) ON FRANGIBLE MOUNTS. THE RSA, OFZ AND TSA ARE CLASSIFIED AS FOLLOWS:
 - A) RUNWAY SAFETY AREA (RSA) IS A SURFACE SURROUNDING THE RUNWAY PREPARED OR SUITABLE FOR REDUCING THE RISK OF DAMAGE TO AIRPLANES IN THE EVENT OF AN UNDERSHOOT, OVERSHOOT, OR EXCURSION FROM THE RUNWAY. FOR DETAILS SEE FAA AC 150/5300-13 ITEMS 2 AND 305.
 - B) OBSTACLE FREE ZONE (OFZ) IS THE AIRSPACE BELOW 150 FEET ABOVE THE ESTABLISHED AIRPORT ELEVATION AND ALONG THE RUNWAY AND EXTENDED RUNWAY CENTERLINE THAT IS REQUIRED TO BE CLEAR OF ALL OBJECTS, EXCLUDING THE FRANGIBLE VISUAL NAVAIDS THAT NEED TO ILLUMINATE THE RUNWAYS. FOR DETAILS SEE FAA AC 150/5300-13 ITEMS 2 AND 306.
 - C) TAXIWAY SAFETY AREA (TSA) IS A SURFACE ALONGSIDE THE TAXIWAY PREPARED OR SUITABLE FOR REDUCING THE RISK OF DAMAGE TO AN AIRPLANE UNINTENTIONALLY DEPARTING THE TAXIWAY. FOR DETAILS SEE FAA AC 150/5300-13 ITEMS 2 AND 403.
- THE SIGN USED MUST PROVIDE AT LEAST 12 INCHES OF CLEARANCE BETWEEN THE TOP OF THE SIGN AND ANY PART OF THE MOST CRITICAL AIRCRAFT USING, OR EXPECTED TO USE, THE AIRPORT WHEN THE AIRCRAFT'S WHEELS ARE AT THE DEFINED PAVEMENT EDGE. (FAA AC 150/5340-18) IT SHOULD BE NOTED THAT AIRCRAFT CLEARANCE REQUIREMENTS AND JET BLAST MAY PRECLUDE THE USE OF THESE SIGNS ON ROADWAYS THAT ARE LOCATED ON THE APRON OR OTHER PARTS OF THE AIR OPERATIONS AREA. (FAA AC 150/5340-18 ITEMS 3 AND 10)

PAVEMENT MARKINGS

- FOR THE LATEST FEDERAL AVIATION ADMINISTRATION (FAA) STANDARD FOR AIRPORT MARKINGS, REFER TO FAA ADVISORY CIRCULAR AC NO. 150/5340-1 (SECTION 4 OTHER MARKINGS: VEHICLE ROADWAY MARKINGS).
- ROADWAY PAVEMENT MARKINGS ON AIRSIDE VEHICLE ROADWAYS ARE WHITE ONLY.
- VEHICLE ROADWAY DELINEATION ON AIRSIDE, A MINIMUM SPACING OF 2 FEET MUST BE MAINTAINED BETWEEN THE ROADWAY EDGE MARKING AND THE NON-MOVEMENT AREA BOUNDARY MARKING.
- VEHICLE ROADWAY MARKING CONSIST OF A SOLID LINE TO DELINEATE EACH EDGE OF THE ROADWAY AND A DASHED LINE TO SEPARATE LANES WITHIN THE EDGES OF THE ROADWAY. THE EDGE LINES AND LANE LINES ARE BOTH 6 INCHES WIDE AND THE DASHES FOR THE LANE LINES ARE 15 FEET IN LENGTH WITH SPACING OF 25 FEET BETWEEN DASHES.
- IN LIEU OF THE SOLID LINES, ZIPPER MARKINGS MAY BE USED TO DELINEATE THE EDGES OF THE VEHICLE ROADWAY WHEREVER THE AIRPORT OPERATOR DETERMINES THAT THE ROADWAY EDGES NEED ENHANCED DELINEATION. THE ZIPPER MARKING CONSISTS OF TWO DASHED LINES SIDE BY SIDE WITH ALTERNATING DASHES THAT ARE 12 INCHES WIDE AND 4 FEET IN LENGTH, ALONG EACH EDGE OF THE ROADWAY.
- WHERE A ROADWAY CROSSES A TAXIWAY, A SOLID WHITE STRIPE 2 FEET WIDE IS PROVIDED ACROSS THE APPROACH LANE AT DISTANCES SPECIFIED IN TABLE 1 TO ASSURE ADEQUATE CLEARANCE FROM THE TAXIING AIRCRAFT. WHEN THE ROADWAY IS NOT LOCATED ON AN AIRCRAFT MANEUVERING AREA, A RETRO-REFLECTIVE STOP OR YIELD SIGN SHOULD BE INSTALLED ON THE RIGHT HAND SIDE OF THE ROADWAY IN CONJUNCTION WITH THE SOLID WHITE STRIPE.
- MARKINGS FOR ROADWAYS NOT LOCATED ON AIRCRAFT MANEUVERING AREAS SHOULD CONFORM TO THOSE IN THE U.S. DEPARTMENT OF TRANSPORTATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

No.	Date	Revision	Approved

ENGINEERING DEPARTMENT			
PANYNJ			
Traffic Standard			
Details			

TRAFFIC

Title
PAVEMENT MARKINGS
AIRSIDE MARKINGS AND SIGN PLACEMENT

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Date **1/07/2013**

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PID# _____