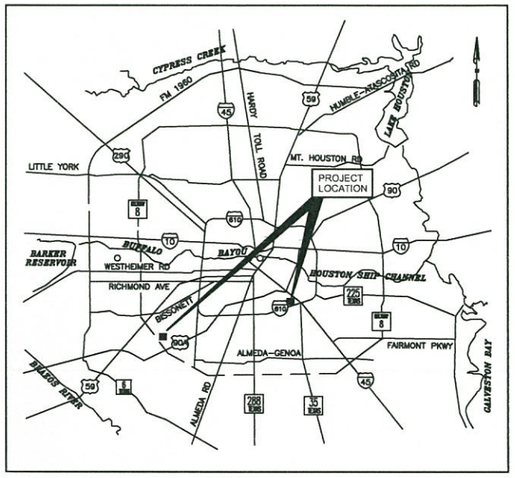
CITY OF HOUSTON

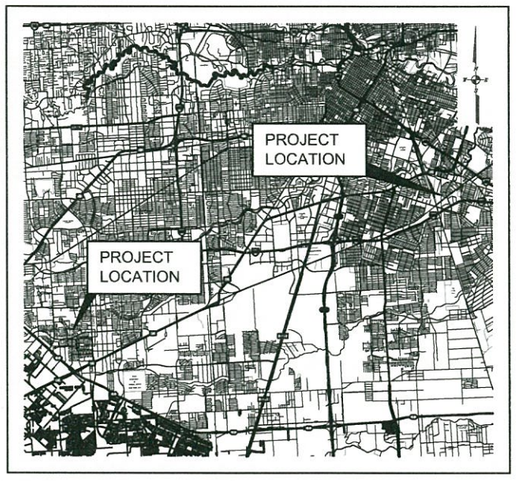
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING AND CONSTRUCTION DIVISION

S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT

WBS No. N-321038-0005-4



LOCATION MAP



VICINITY MAP

KEY MAP NO 494-Z
GIMS MAP NO 5556-A

TDLR EABPR _____

CADD DWG FILE NO:

ORIGINAL SCALE IN INCHES

MAYOR
ANNISE D. PARKER

CONTROLLER
RONALD C. GREEN

DISTRICT COUNCIL MEMBERS

BRENDA STARDIG DISTRICT A	JERRY DAVIS DISTRICT B	ELLEN COHEN DISTRICT C
DWIGHT BOYKINS DISTRICT D	DAVE MARTIN DISTRICT E	RICHARD NGUYEN DISTRICT F
OLIVER PENNINGTON DISTRICT G	EDWARD GONZALEZ DISTRICT H	ROBERT GALLEGOS DISTRICT I
MIKE LASTER DISTRICT J	LARRY GREEN DISTRICT K	

COUNCIL MEMBERS AT–LARGE

STEPHEN C. COSTELLO POSITION 1	DAVID ROBINSON POSITION 2
MICHAEL KUBOSH POSITION 3	C.O. "BRAD" BRADFORD POSITION 4
JACK CHRISTIE POSITION 5	

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

PROJ. 12270.3

McDONOUGH
Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
5625 Schumacher Lane
Houston, Texas 77057
(713) 975-9990
www.mectx.com

SURVEYED BY: Landtech Consultants, Inc. FB No. P–5634

N/A WATER	12/5/14 CONSTRUCTION
N/A WASTEWATER	12/5/14 TRAFFIC AND TRANSPORTATION
N/A STORM WATER	SPONSOR DEPARTMENT
N/A STREET & BRIDGE	MANAGING ENGINEER

FOR CITY OF HOUSTON USE ONLY

CITY ENGINEER DATE

DIRECTOR OF PUBLIC WORKS AND ENGINEERING DATE

SHEET NO 1 OF 61 SHEETS

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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT
INDEX OF DRAWINGS

HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:	
N.T.S.	
SHEET NO. 2 OF 61	

PROJ 12270 3

GENERAL CONSTRUCTION NOTES

1. ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.

2. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "STANDARD CONSTRUCTION SPECIFICATIONS" REFERENCED ABOVE, AT NOT COST TO THE CITY OF HOUSTON.

3. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

4. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.

SWPPP CONSTRUCTION NOTES

1. CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND/ OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.

2. DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATED MATERIAL CAN BE QUICKLY HAULED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEPT BACK INTO THE EXCAVATED AREA.

3. CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.

4. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.

5. CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY
- STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROL MEASURES.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

STORM SEWER CONSTRUCTION NOTES

1. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02086.

STREET AND BRIDGE NOTES

1. EXISTING PAVEMENT, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS.

2. EXISTING PAVEMENTS, CURB, DRIVEWAYS, SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS. WITH LATEST ADDENDUM'S AND AMENDMENTS THERE TO.

3. PRIOR TO STREET CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS AND ENGINEERING AT 713-535-7579 OR 713-535-7582 AND COMPLY WITH ALL REQUIREMENTS FOR THE ISSUANCE OF THE NECESSARY PERMITS/WORK ORDERS FOR STREET CONSTRUCTION.

4. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.

5. CONDITION OF THE ROAD AND/OR RIGHT OF-WAY, UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.

6. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.

AT&T TEXAS/SWBT FACILITIES

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES MAY BE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

2. THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.

4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.

6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713)567-4552 OR E-MAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUR AT&T TEXAS/SWBT FACILITIES.

TRAFFIC NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD, MOST RECENT EDITION WITH REVISION) DURING CONSTRUCTION.

2. LANE CLOSURE PERMITS ARE TO BE SUBMITTED WHEN REQUIRED (SEE NOTE 7).

A. NO LANES SHALL BE CLOSED DURING THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM MONDAY THRU FRIDAY.
B. NO LANES SHALL BE CLOSED IN RESIDENTIAL AREAS FROM 7:00 PM TO 7:00 AM.

3. IF THE CONTRACTOR DESIRES TO BLOCK A LANE FOR WHICH NO "TRAFFIC CONTROL PLANS" WERE SUBMITTED, (S)HE SHALL SUBMIT REPRODUCIBLE MYLARS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS TO THE PLAN REVIEW SECTION WITH THE ENTIRE APPROVED SET OF DRAWINGS FOR APPROVAL TEN WORKING DAYS PRIOR TO CONSTRUCTION.

4. CONTRACTOR SHALL COVER EXCAVATIONS WITH STEEL PLATES, ANCHORED PROPERLY, DURING NON-WORKING HOURS AND OPEN LANES FOR TRAFFIC FLOW.

5. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, (S)HE SHALL BE RESPONSIBLE TO SUBMIT AN ALTERNATE SET OF REPRODUCIBLE MYLARS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS WITH THE ENTIRE APPROVED SET OF DRAWINGS TO PLAN REVIEW SECTION FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION.

6. APPROVED COPIES OF "TRAFFIC CONTROL PLANS" AND LANE/SIDEWALK CLOSURE PERMITS SHALL BE AVAILABLE FOR INSPECTION AT JOB SITE AT ALL TIMES.

7. THE REQUEST MUST BE MADE AT LEAST TEN DAYS PRIOR TO THE DATE FOR WHICH THE CLOSURE IS SOUGHT. CALL 713-837-7280 FOR AN APPLICATION.

Caution: Underground Gas Facilities
Locations of Centerpoint Energy main lines (To include CenterPoint Energy, Intrastate Pipeline, LLC, where applicable) are shown in an approximate location only. Service lines are usually not shown. Our signature on these plans only indicates that our facilities are shown in approximate location. It does not imply that a conflict analysis has been made. The contractor shall contact the Utility Coordinating Committee at (713)223-4567 or 1-800-669-8344 a minimum of 48 hours prior to construction to have main and service lines field located.

When Centerpoint Energy pipe line markings are not visible, call (713) 967-8037 (7:00 a.m. to 4:30p.m.) for status of line location request before excavation begins.

When excavating within eighteen inches (18") of the indicated location of Centerpoint Energy facilities, all excavation must be accomplished using non-mechanized excavation procedures.

When Centerpoint Energy Facilities are exposed, sufficient support must be provided to the facilities to prevent excessive stress on the piping. The contractor is fully responsible for any damages caused by his failure to exactly locate and preserve these underground facilities.

WARNING: OVERHEAD ELECTRICAL FACILITIES

Overhead lines may exist on the property. The location of overhead lines has not been shown on these drawings as the lines are clearly visible, but you should locate them prior to beginning any construction. Texas law, Section 752, Health & Safety Code forbids activities that occur in close proximity to high voltage lines, specifically:

- Any activity where person or things may come within six(6) feet of live overhead high voltage lines; and
- Operating a crane, derrick, power shovel, drilling rig, pile driver, hoisting equipment, or similar apparatus within 10 feet of live overhead high voltage lines.

Parties responsible for the work, including contractors, are legally responsible for the safety of construction workers under this law. This law carries both criminal and civil liability. To arrange for these lines to be turned off or removed call CenterPoint Energy (713)207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6248 OR (713) 207-5769.

LEGEND

PLAN VIEW	EXISTING	PROPOSED
Ditch High Bank		
Storm Sewer/MH		
Curb Inlet/Grate Inlet		
Sanitary Sewer/MH		
Water Line/Gate Valve		
Fire Hydrant/Water Meter		
Gas Line/Gas Meter		
Power Line/Power Pole	P	
R.O.W. Line		
Curb		
Fence Line		
Bore Sampling Location (Refer to Geotechnical Report)		

PROFILE VIEW	EXISTING	PROPOSED
Ditch High Bank		
Ditch Centerline		
Storm Sewer		
Sanitary Sewer		
Edge of Asphalt Pavement		

ABBREVIATIONS

TOPOGRAPHIC FEATURES

FND.	FOUND
I.R.	IRON ROD
I.P.	IRON PIPE
G.I.P.	GALVANIZED IRON PIPE
CONC.	CONCRETE
BLDG.	BUILDING
COV'D.	COVERED
A/C	AIR CONDITION
R.D.	ROOF DRAIN
C.O.	CLEAN OUT
S.H.	SPRINKLER HEAD
T.C.	TOP OF CURB
T.W.	TOP OF WALK
T.P.	TOP OF PAVEMENT
T.G.	TOP OF GRATE
G.	GUTTER
+68.0	SPOT ELEVATION
℄	CENTER LINE
IND. T. PED.	INDEPENDENT TELE. PEDESTAL

PRIVATE UTILITIES

G.W.	GUY WIRE
T.	TELEPHONE
ELEC.	ELECTRIC
PED.	PEDESTAL
P.P.	POWER POLE
S.P.	SERVICE POLE
T.L.	TRAFFIC LIGHT
O.E.	OVERHEAD ELECTRIC
GAS	ENTEX
G.M.	GAS METER
H.L.& P.	HOUSTON LIGHT & POWER CO.
S.W.B.T.	SOUTHWESTERN BELL TELEPHONE

PUBLIC UTILITIES

SAN.	SANITARY
STM.	STORM
SWR.	SEWER
M.H.	MANHOLE
INV.	INVERT (STORM SEWER)
F.L.	FLOW LINE (SANITARY SEWER)
W.V.	WATER VALVE
W.M.	WATER METER
F.H.	FIRE HYDRANT
WTR.	WATER
G.V.	GATE VALVE

PUBLIC RECORDS

PG.	PAGE
ESMT.	EASEMENT
VOL.	VOLUME
C.O.H.	CITY OF HOUSTON
R.O.W.	RIGHT-OF-WAY
H.C.C.F.	HARRIS COUNTY CLERK FILES
H.C.M.R.	HARRIS COUNTY MAP RECORDS
H.C.D.R.	HARRIS COUNTY DEED RECORDS

PROJ. 12270.3

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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT GENERAL NOTES

HOUSTON, HARRIS COUNTY, TEXAS

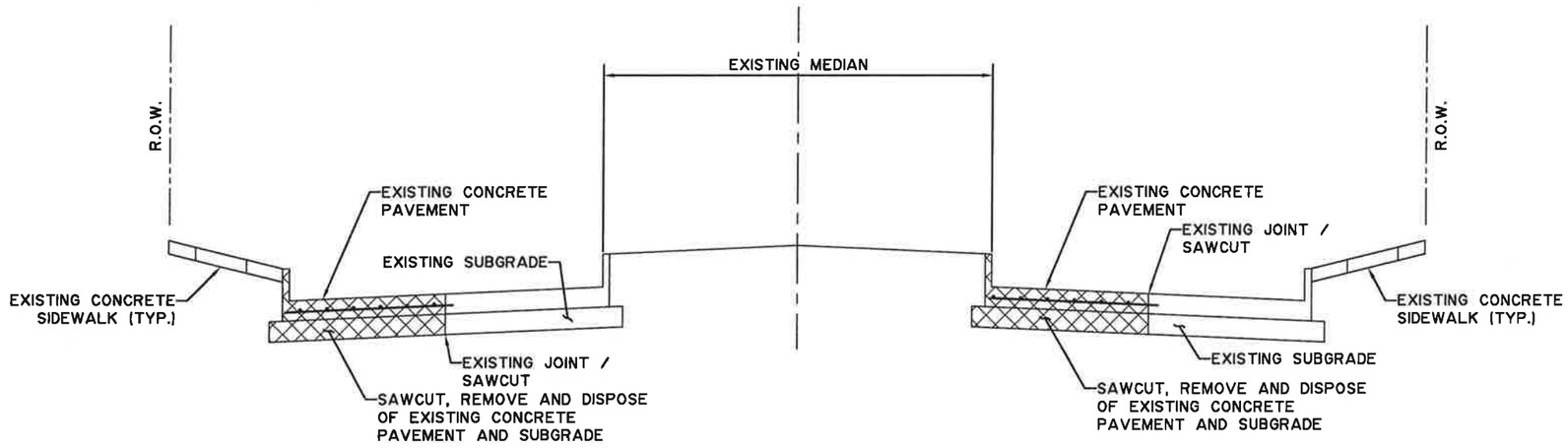
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON

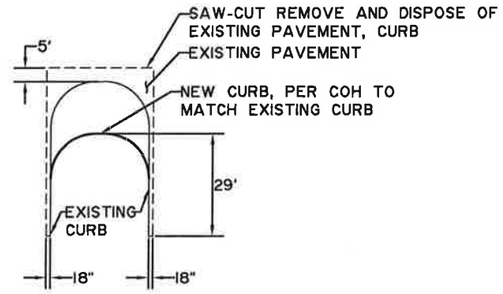
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: N.T.S.	
SHEET NO. 3 OF 61	



EXISTING TYPICAL SECTION
NOT TO SCALE

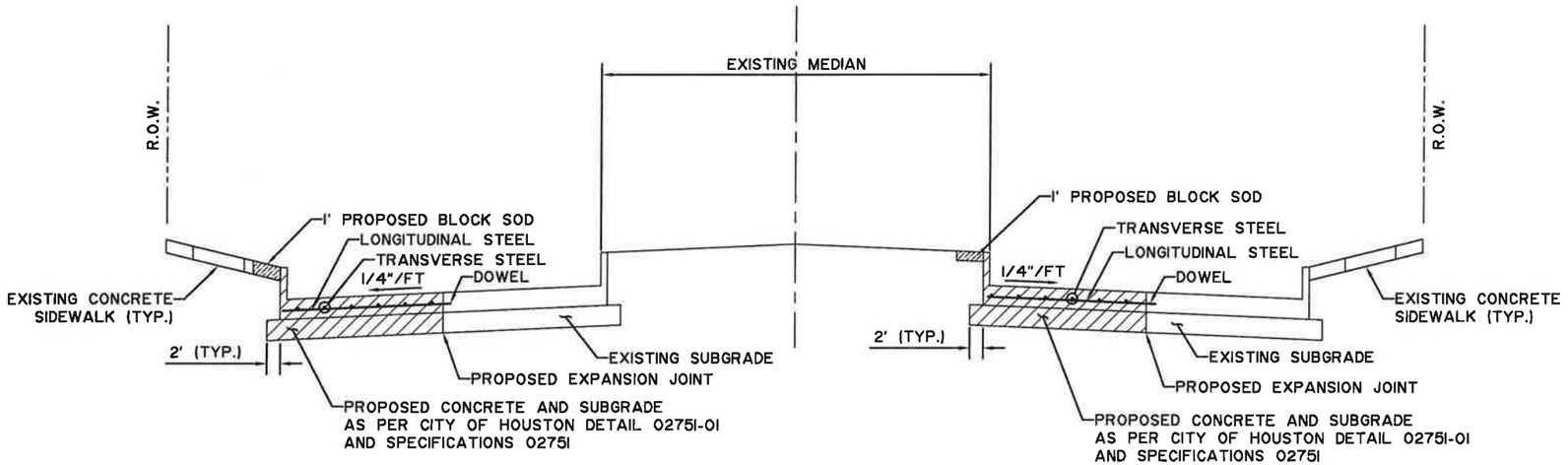


MEDIAN NOSE DETAIL
NOT TO SCALE

LEGEND

SAWCUT, REMOVE, AND DISPOSE OF EXISTING CONCRETE PAVEMENT AND SUBGRADE

PROPOSED FULL-DEPTH CONCRETE AND SUBGRADE REPAIR (FDBR)



PROPOSED TYPICAL SECTION
NOT TO SCALE

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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT TYPICAL SECTIONS

HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.

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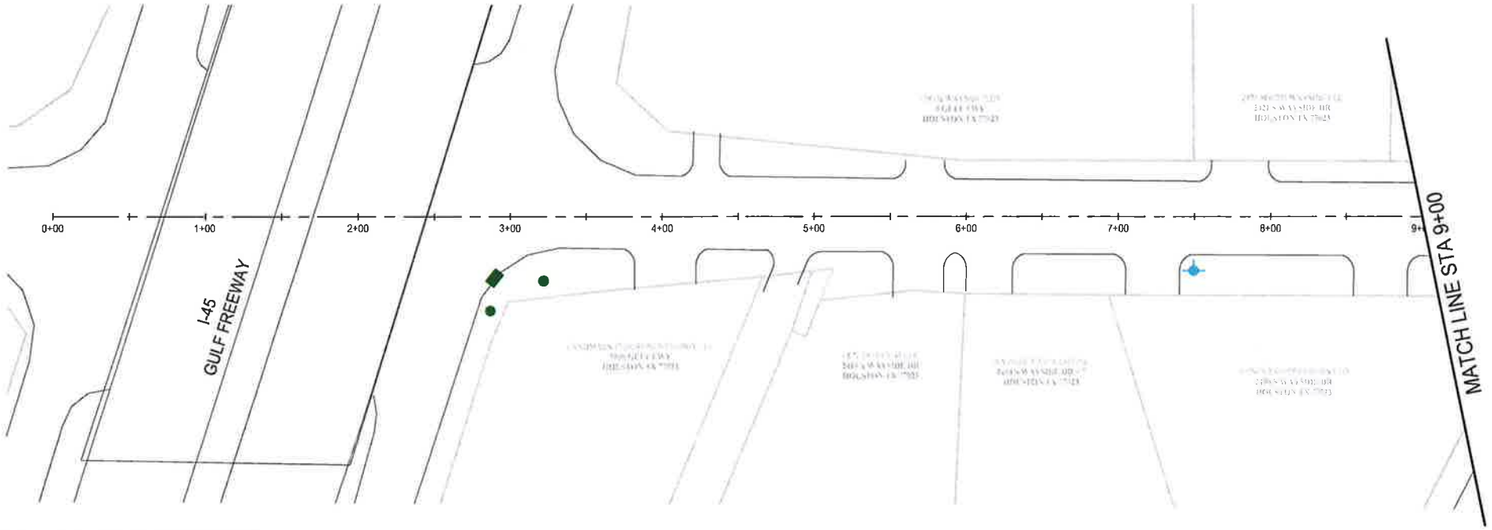
DRAWING SCALE:

N.T.S.

PROJ 12270.3





LEGEND

- PROP. FULL DEPTH BASE REPAIR 10" CONCRETE PAVE (FDBR)
- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
- PROP. MEDIAN REPLACEMENT
- PROP. CRACK SEALING
- PROP. CURB OR CURB AND GUTTER REPLACEMENT
- EXISTING SOUTH WESTERN BELL MANHOLE
- EXISTING SANITARY MANHOLE
- UNKNOWN MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

NOTES:

1. CONTRACTOR TO ENSURE PROPER DRAINAGE TO EXISTING INLETS AT ALL TIMES.
2. PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH CURRENT CITY OF HOUSTON STANDARD DRAWING 02763-01.
3. UTILITIES AND PAVEMENT ARE APPROXIMATE AND ARE NOT BASED ON SURVEY DATA.
4. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)/CORS (2011 ADJ.) 2010 EPOCH DATE/GEOID12A. (PROVIDED BY LANDTECH CONSULTANTS)

S. WAYSIDE BOULEVARD

SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)

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Javier M. Casas 12-5-14

S. WAYSIDE BOULEVARD

NOTE: ALL STATIONS ARE APPROXIMATE.

NO PROFILE
IN THIS AREA

50 45 40 35 30 25 20 15

0+00 5+00 9+00

PROJ 12270 J

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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
S. WAYSIDE DR.-PLAN & PROFILE
STA 0+00 TO STA 9+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

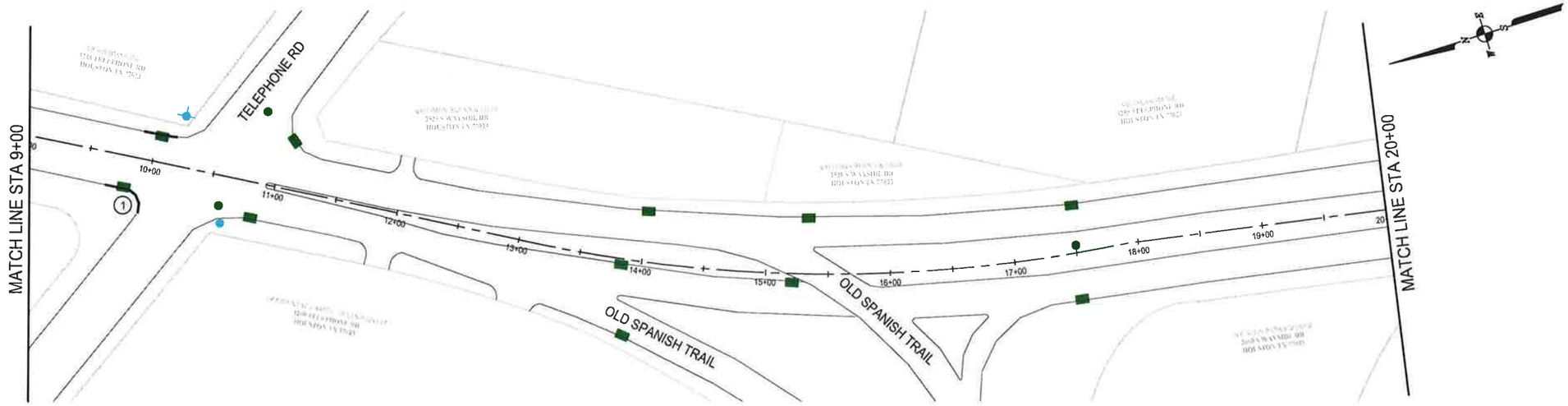
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 5 OF 61



LEGEND

- PROP. FULL DEPTH BASE REPAIR 10" CONCRETE PAVE (FDBR)
- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
- PROP. MEDIAN REPLACEMENT
- PROP. CRACK SEALING
- PROP. CURB OR CURB AND GUTTER REPLACEMENT
- EXISTING SOUTH WESTERN BELL MANHOLE
- EXISTING SANITARY MANHOLE
- UNKNOWN MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

NOTES:

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S. WAYSIDE BOULEVARD

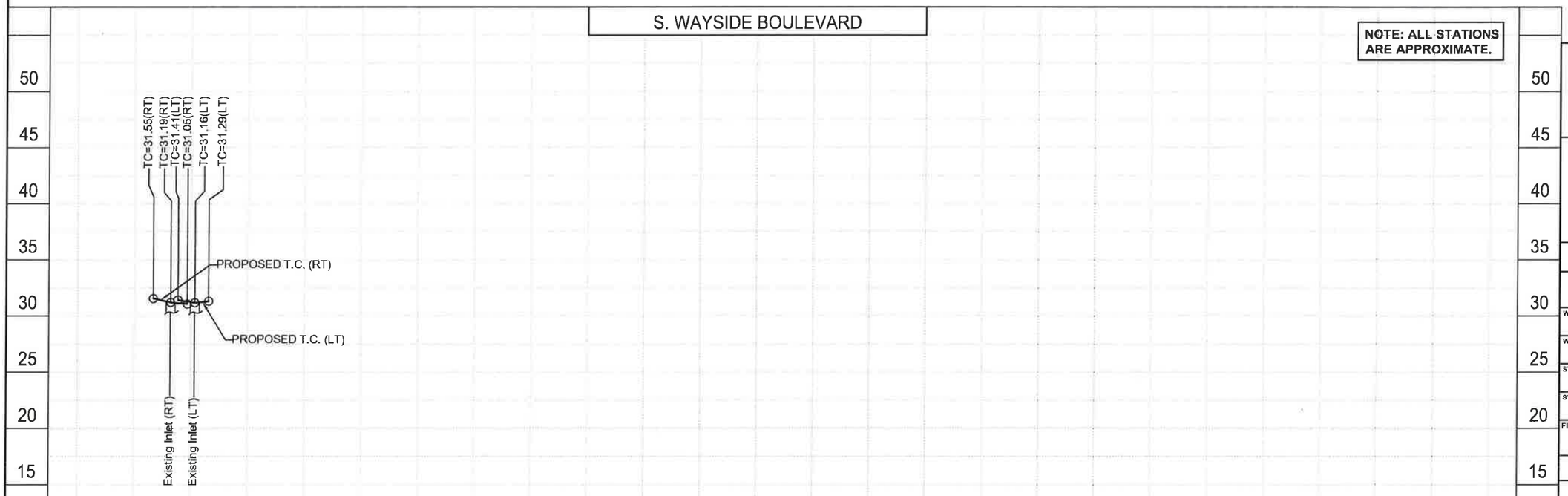
SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)



STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas 12-5-14

McDONOUGH
Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
5625 Schumacher Lane
Houston, Texas 77057
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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
S. WAYSIDE DR.-PLAN & PROFILE
STA 9+00 TO STA 20+00
HOUSTON, HARRIS COUNTY, TEXAS

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

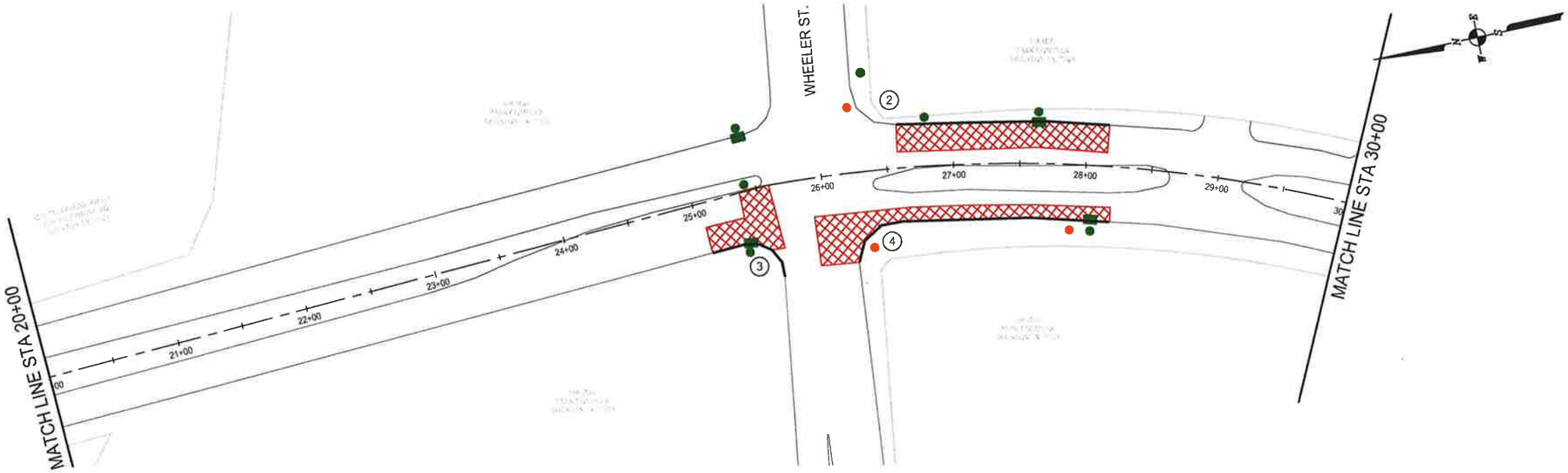
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. | FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 6 OF 61

PROJ. 12270.3



LEGEND

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- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
- PROP. MEDIAN REPLACEMENT
- PROP. CRACK SEALING
- PROP. CURB OR CURB AND GUTTER REPLACEMENT
- EXISTING SOUTH WESTERN BELL MANHOLE
- EXISTING SANITARY MANHOLE
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- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

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100' 50' 0 100'

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SCALE 1"= 10' (VERTICAL)

STATE OF TEXAS
JAVIER M. CASAS
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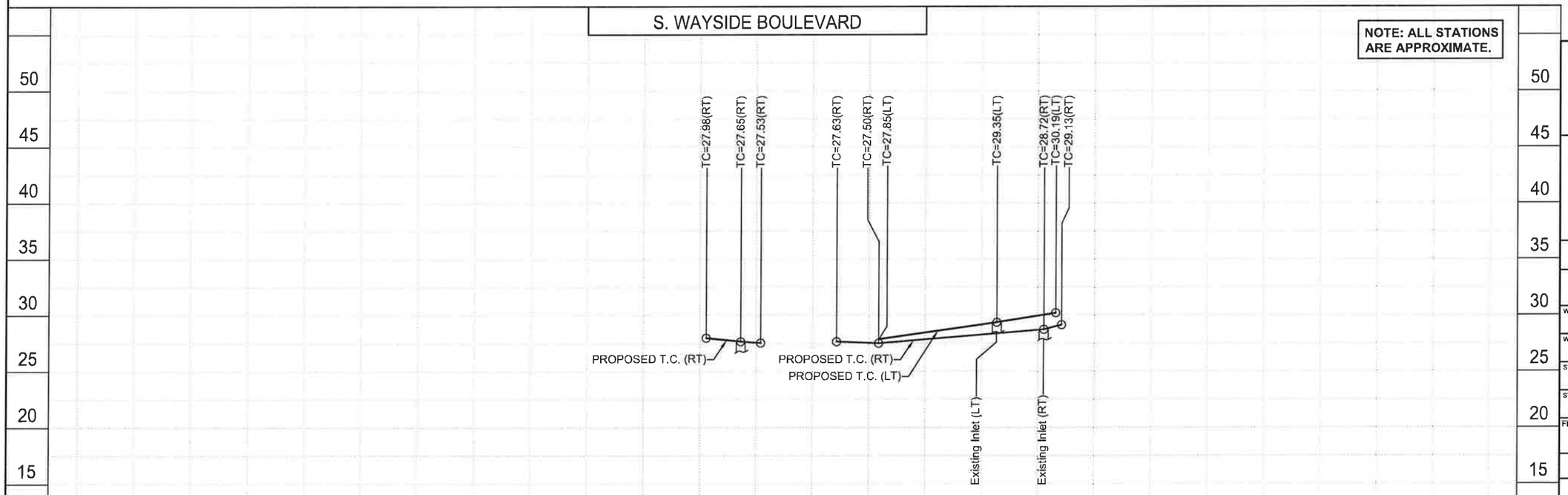

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

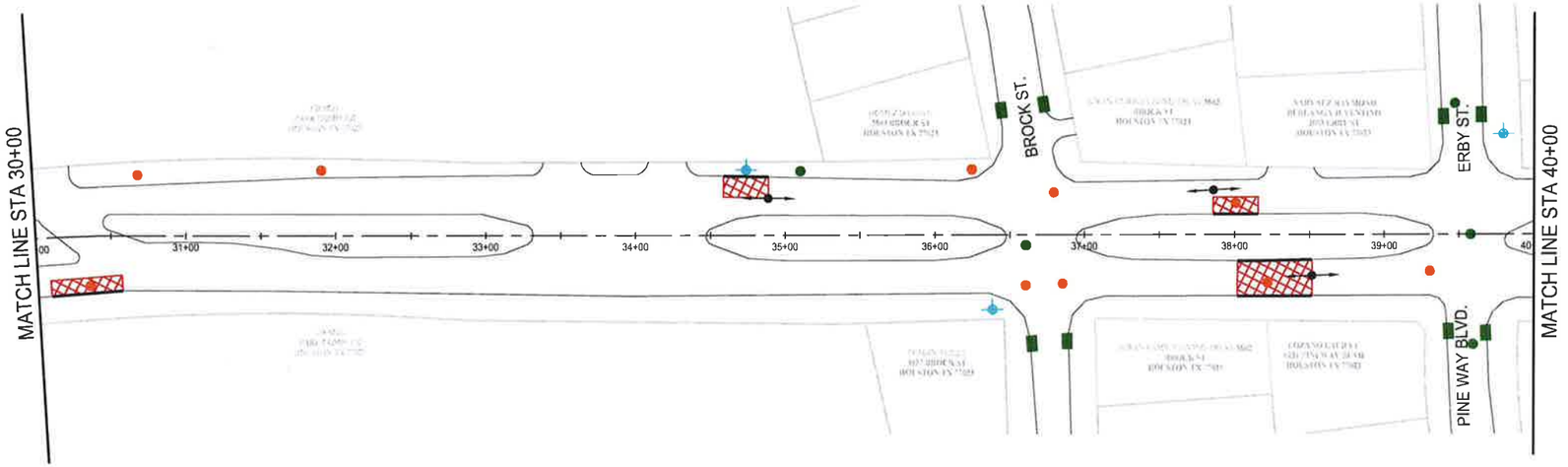
FILE NO.

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 7 OF 61

PROJ 12370.3



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- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
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STATE OF TEXAS
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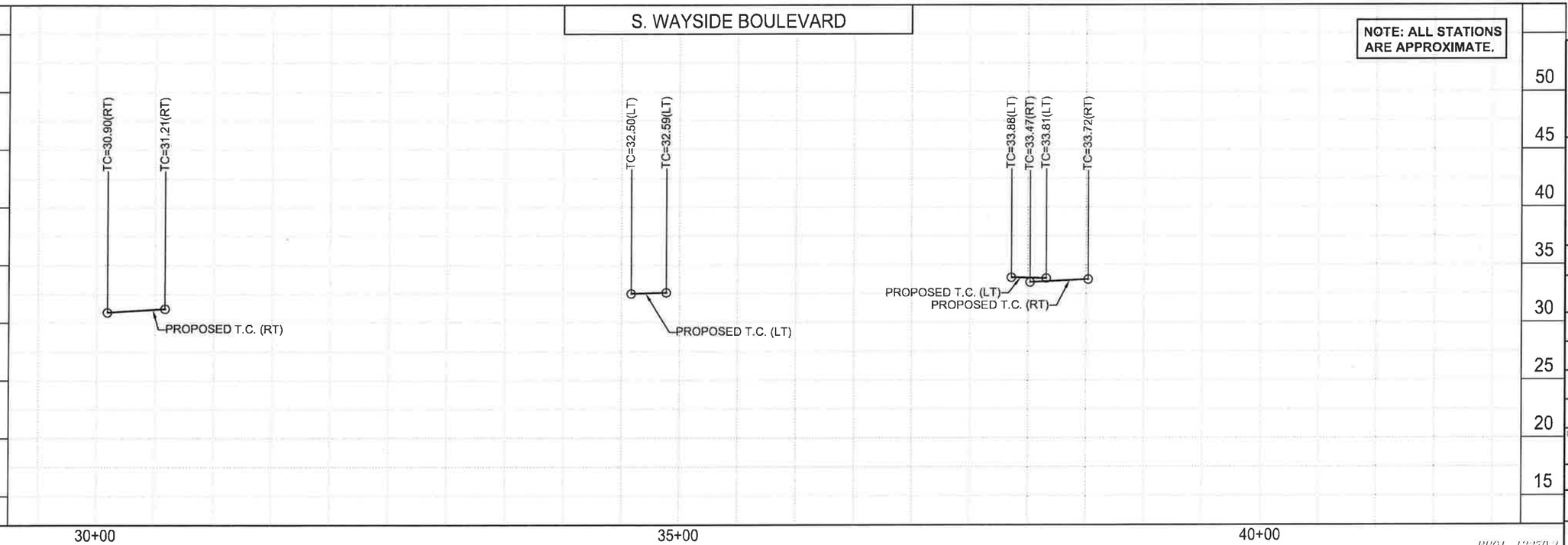
Javier M. Casas 12-5-14



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DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

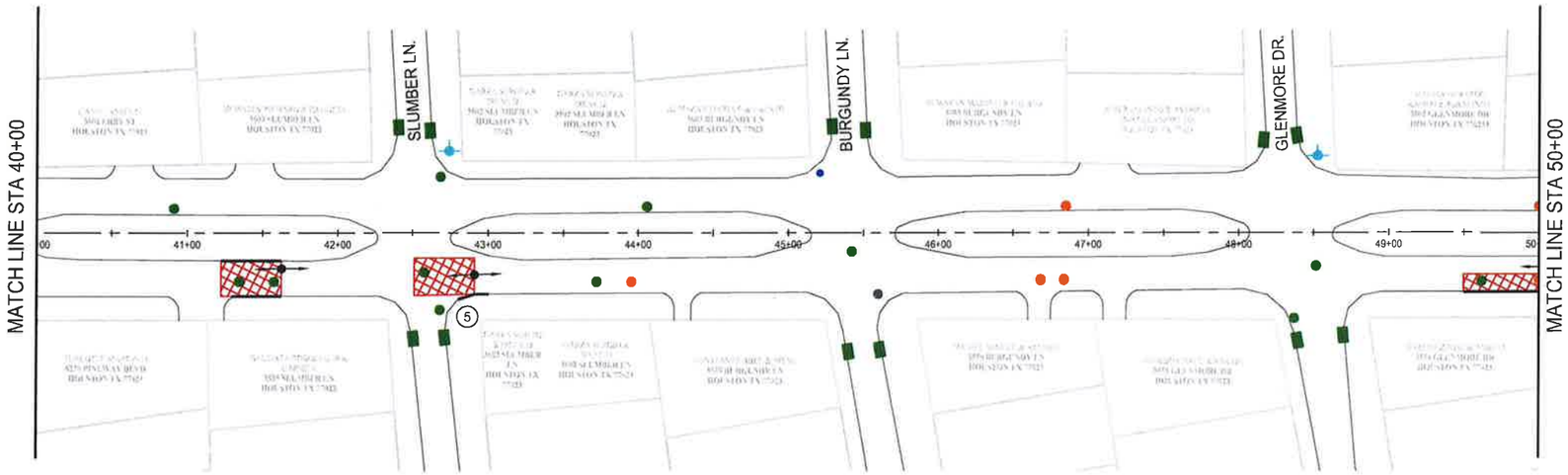
FILE NO.

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 8 OF 61

PROJ 12270.3



S. WAYSIDE BOULEVARD

SCALE: 1"=100'



LEGEND

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SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

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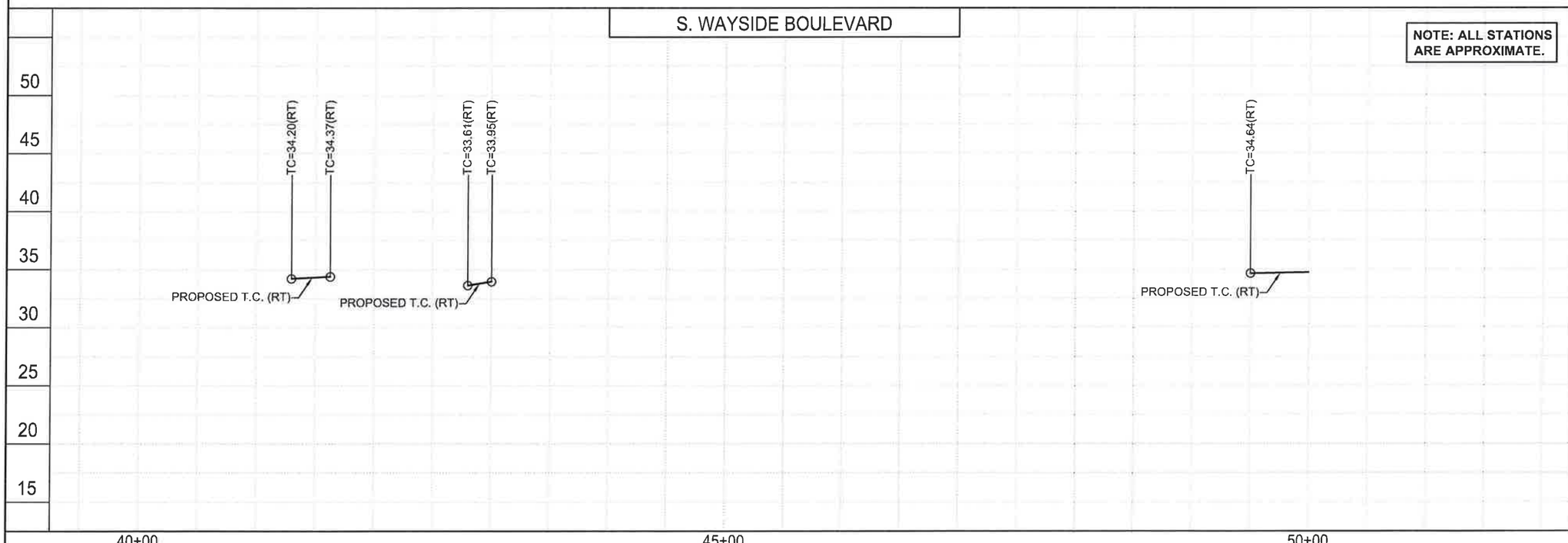
STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
12-5-14



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HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

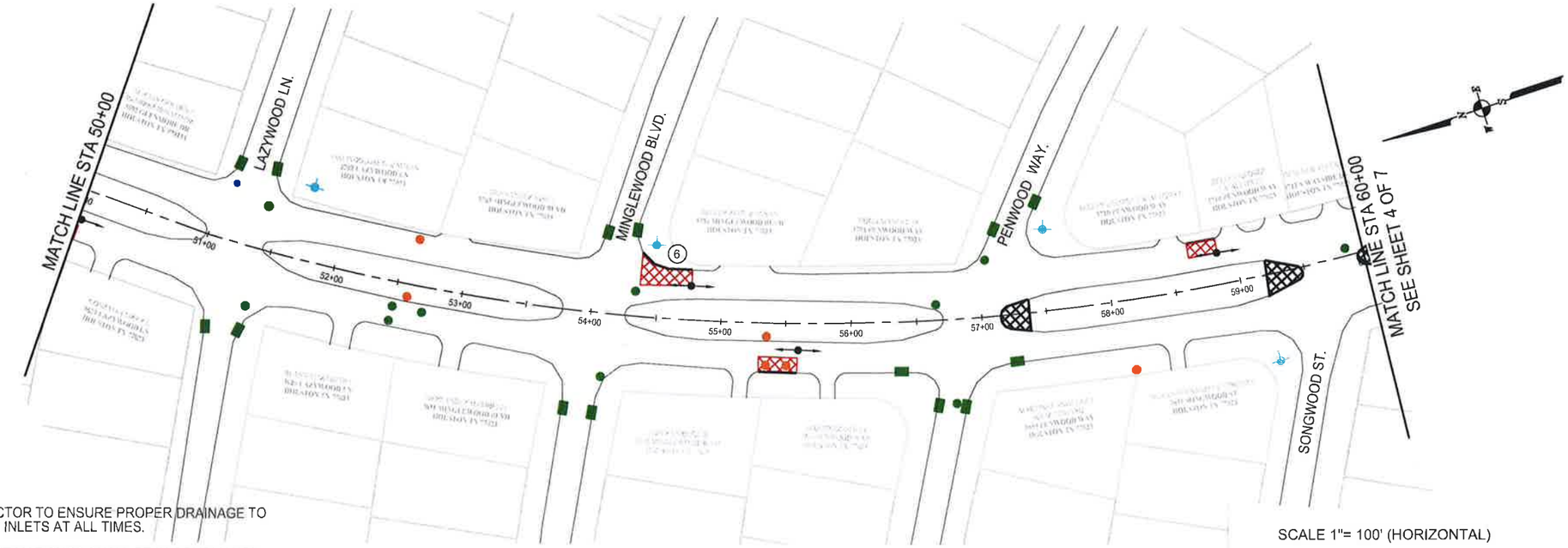
FILE NO.

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

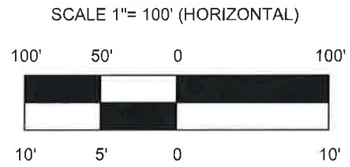
SHEET NO. 9 OF 61

PROJ 12270.3



S. WAYSIDE BOULEVARD

SCALE: 1"=100'



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LEGEND

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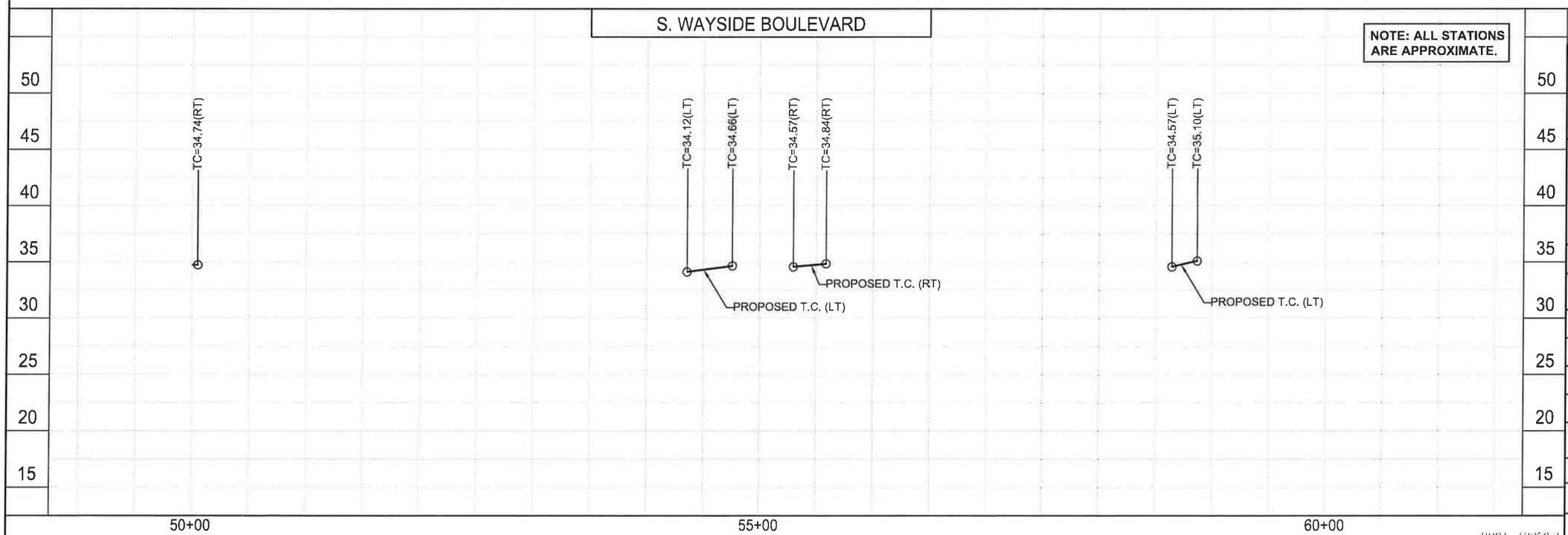
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)



STATE OF TEXAS
JAVIER M. CASAS
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Javier M. Casas
12-5-14

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
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STORM	FACILITIES
STREET & BRIDGE	

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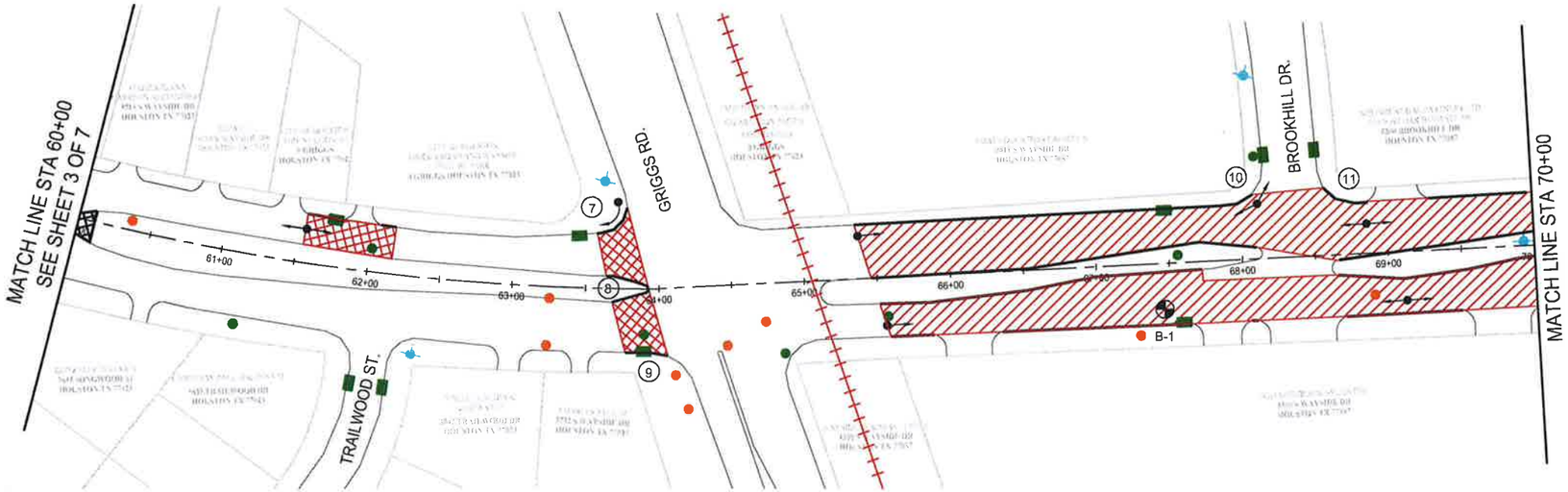
SHEET NO. 10 OF 61

PROJ 12270.3





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S. WAYSIDE BOULEVARD

SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

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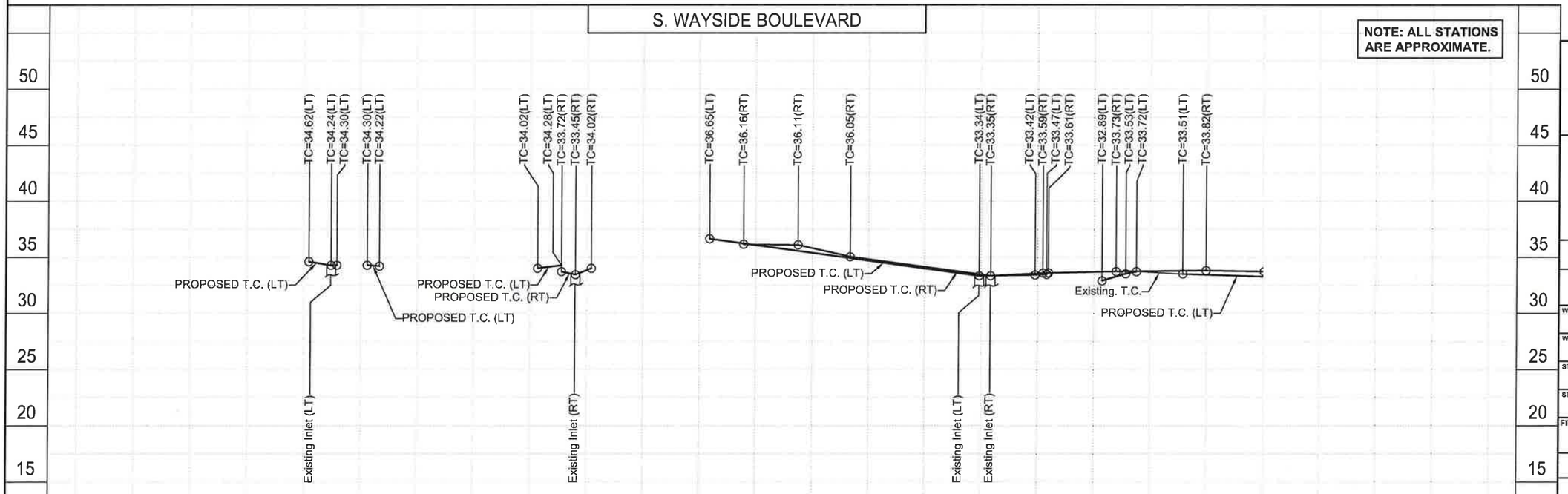

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
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STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
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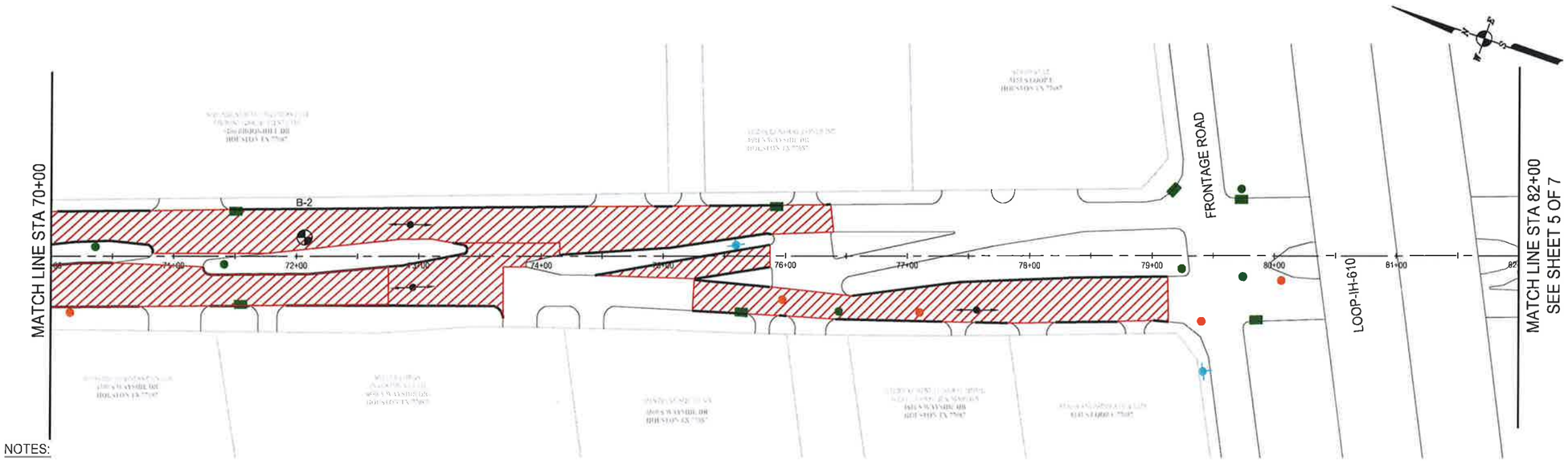
SHEET NO. 11 OF 61

PROJ 12270.3



LEGEND

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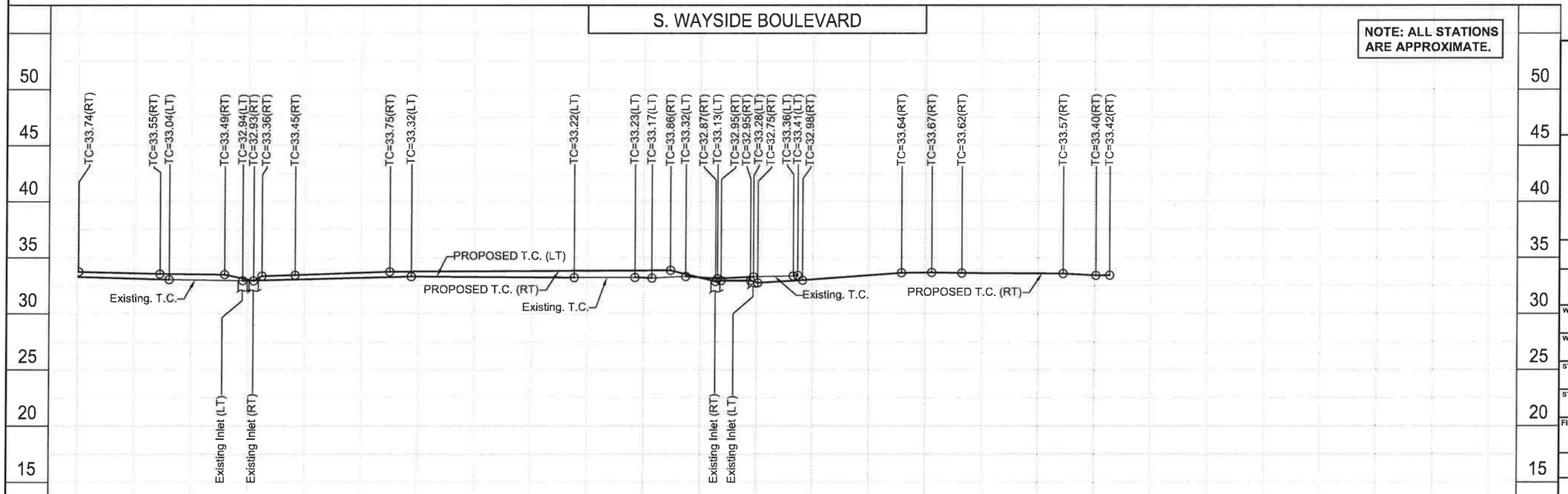

STATE OF TEXAS
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Javier M. Casas 12-5-14

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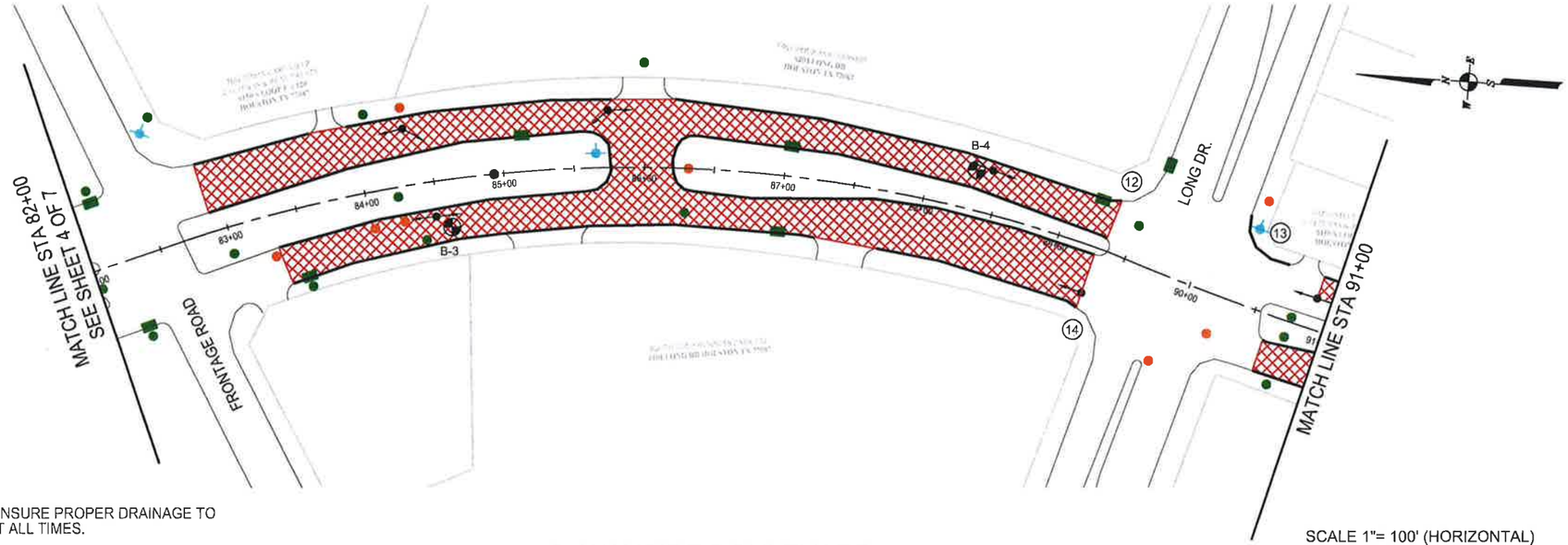
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	
FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: H: 1" = 100' V: 1" = 10'	
SHEET NO. 12 OF 61	

PROJ. 12270.3



S. WAYSIDE BOULEVARD
SCALE: 1"=100'

LEGEND

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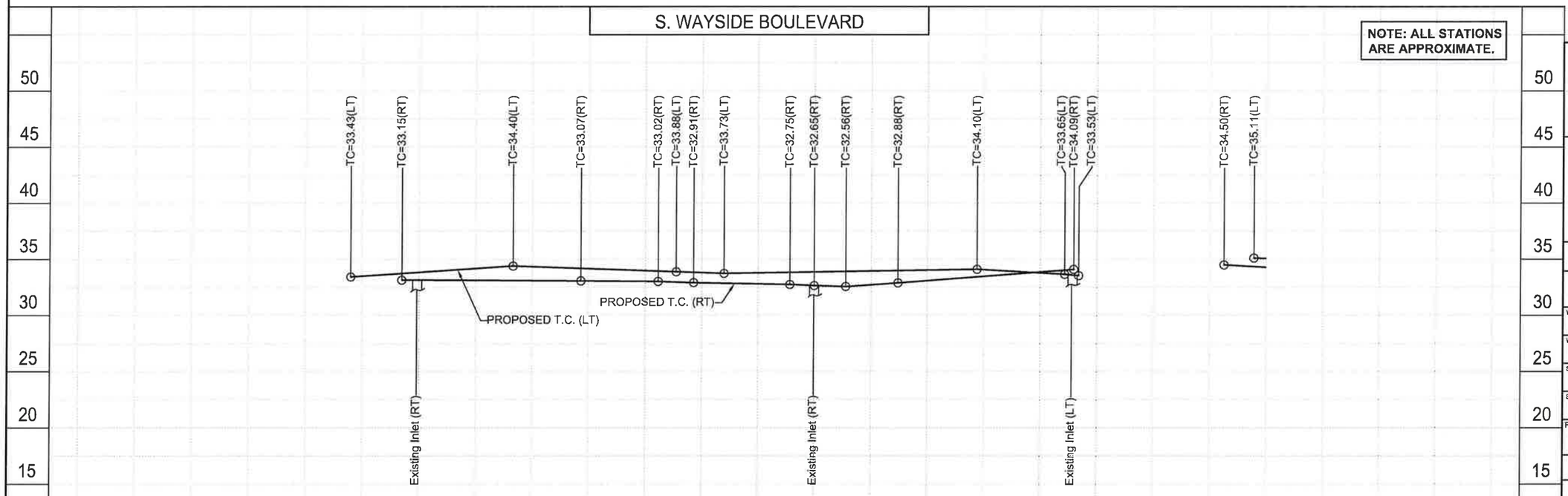
SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14



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Houston, Texas 77057 www.mectx.com

CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
S. WAYSIDE DR.-PLAN & PROFILE
STA 82+00 TO STA 91+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

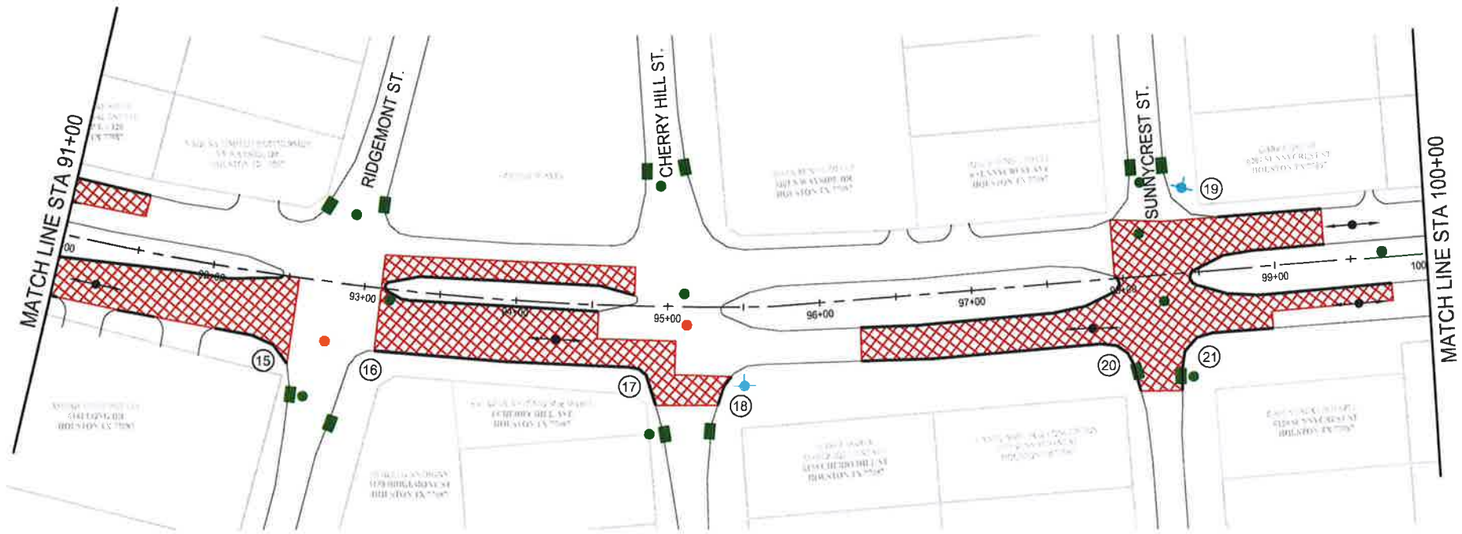
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

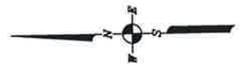
FILE NO. | FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 13 OF 61

PROJ 12270.3





LEGEND

- PROP. FULL DEPTH BASE REPAIR 10" CONCRETE PAVE (FDBR)
- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
- PROP. MEDIAN REPLACEMENT
- PROP. CRACK SEALING
- PROP. CURB OR CURB AND GUTTER REPLACEMENT
- EXISTING SOUTH WESTERN BELL MANHOLE
- EXISTING SANITARY MANHOLE
- UNKNOWN MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

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S. WAYSIDE BOULEVARD

SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

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STATE OF TEXAS
JAVIER M. CASAS
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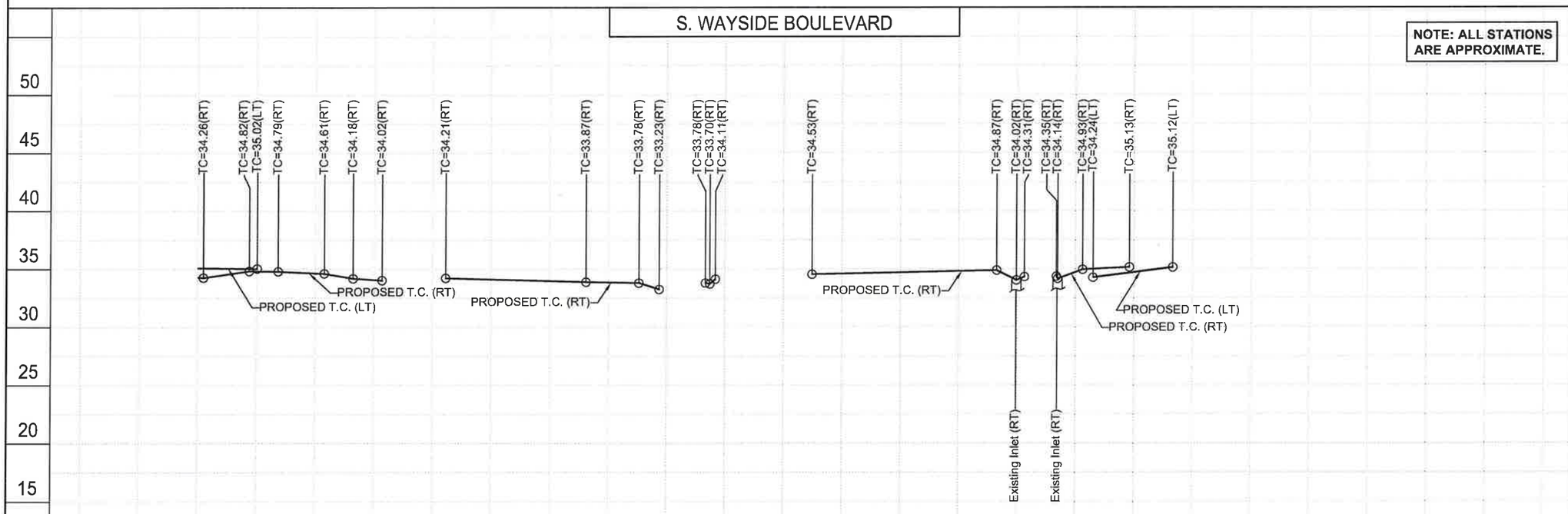
12-5-14



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DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
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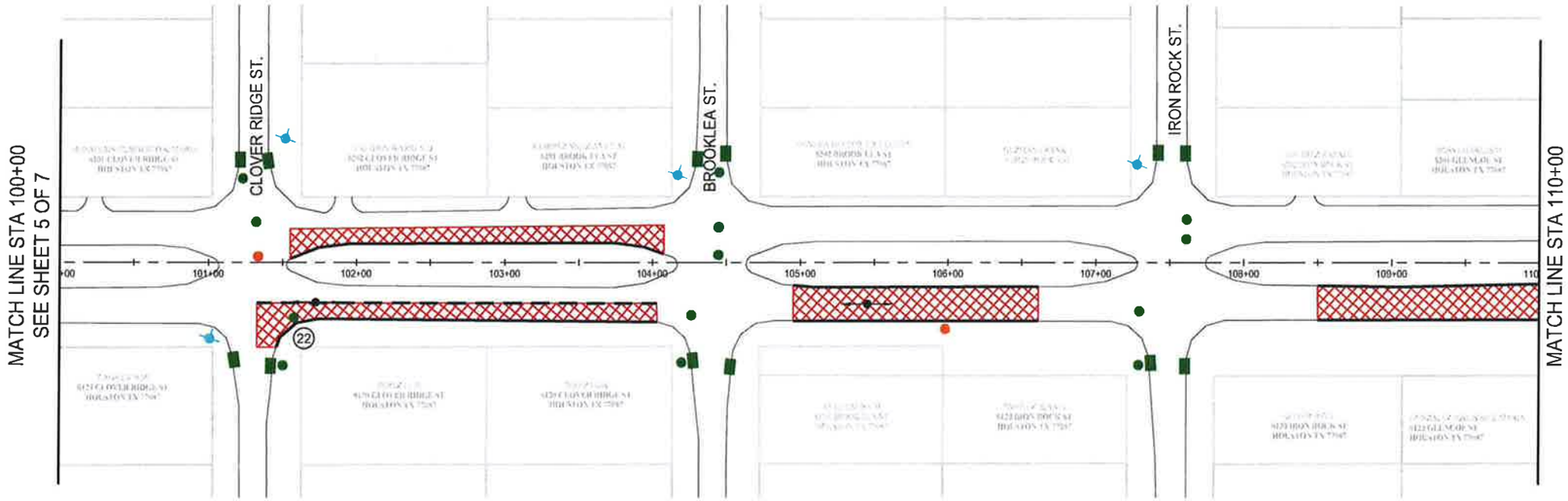
V: 1" = 10'

SHEET NO. 14 OF 61

PROJ 12270.3



S. WAYSIDE BOULEVARD

SCALE: 1"=100'

LEGEND

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- EXISTING CITY STORM INLET
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- EXISTING SBC/ATT MANHOLE
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10' 5' 0 10'

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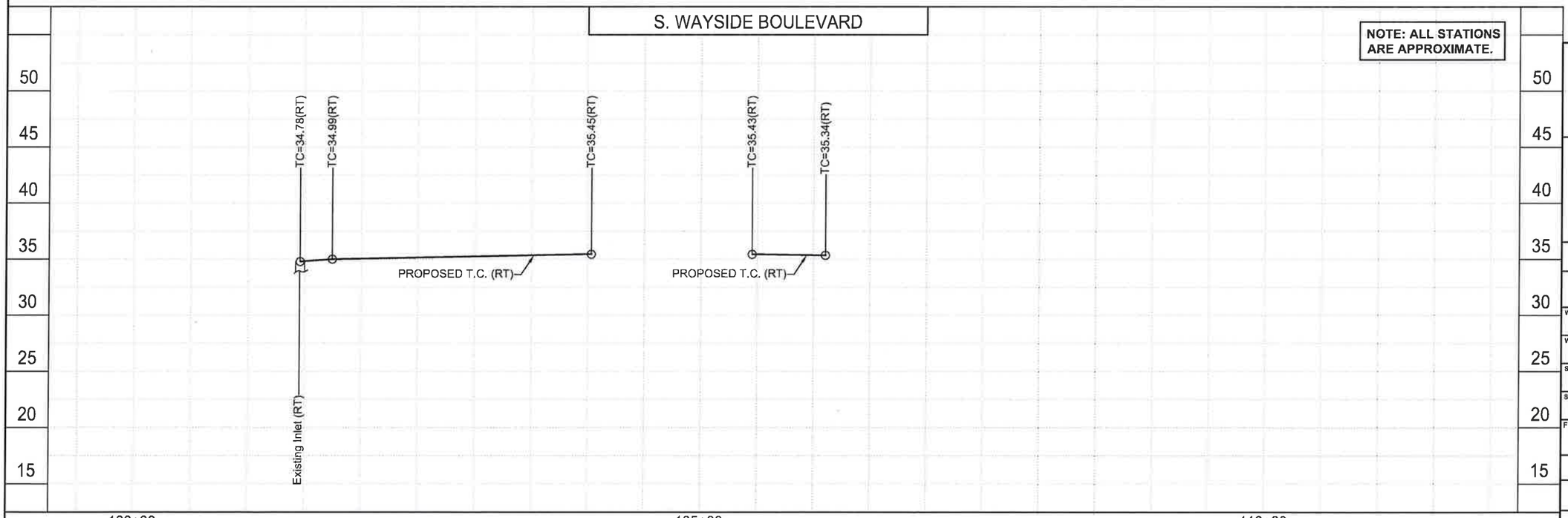

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

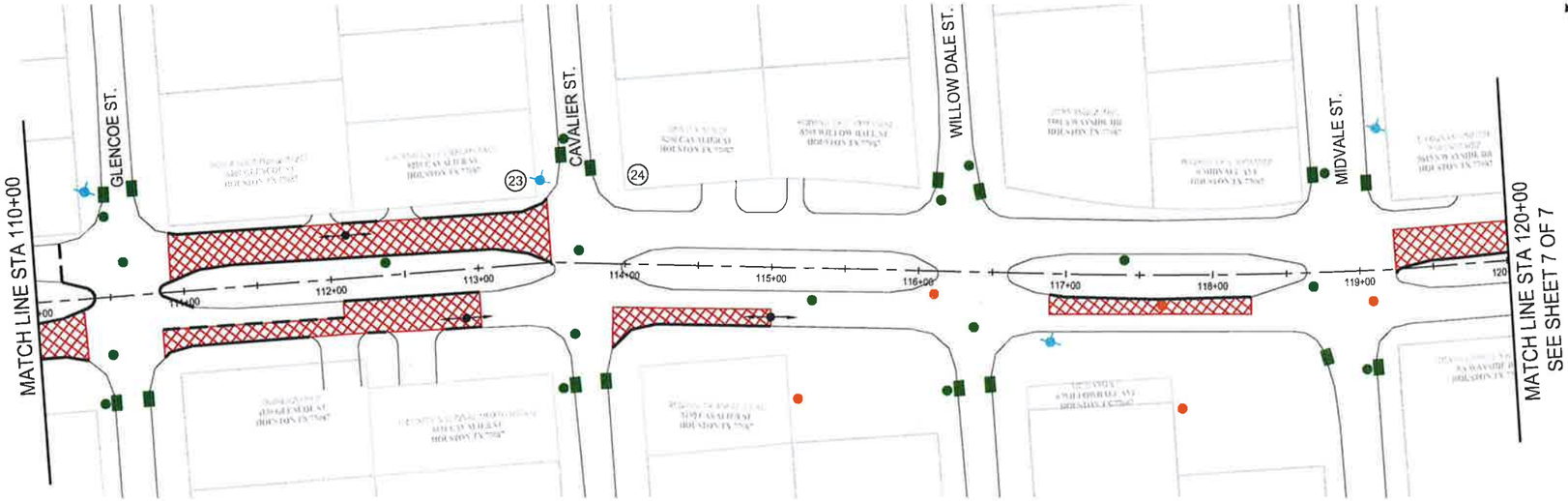
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 15 OF 61

PROJ. 12270.3



LEGEND

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S. WAYSIDE BOULEVARD

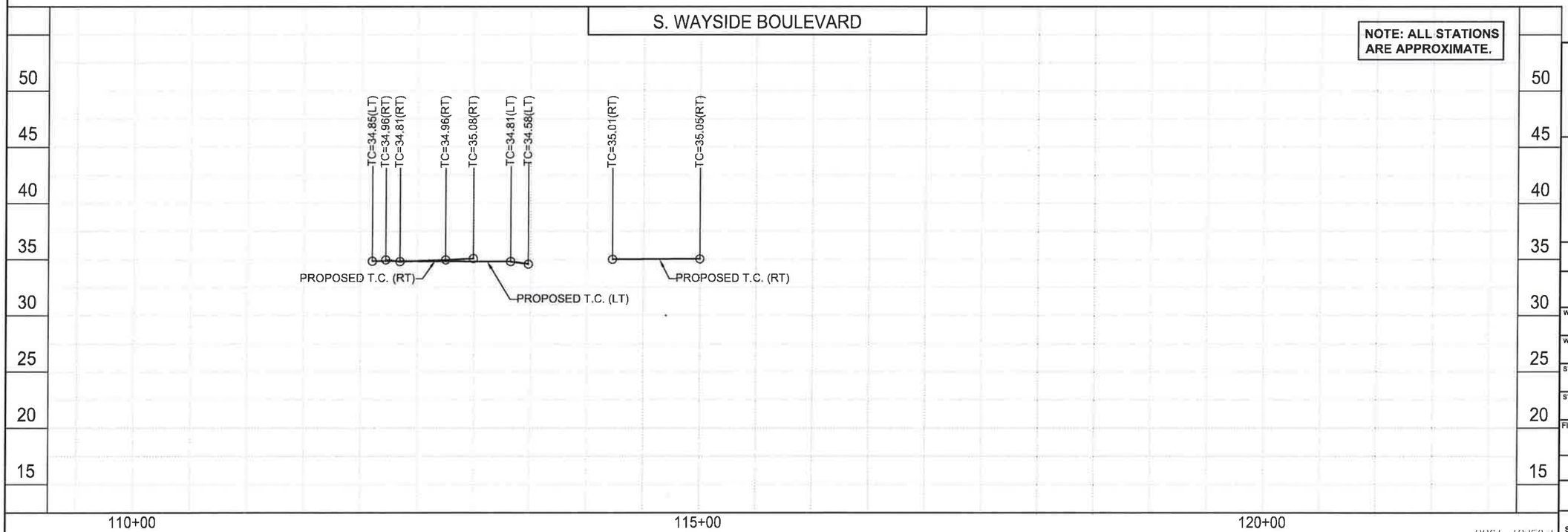
SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)



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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

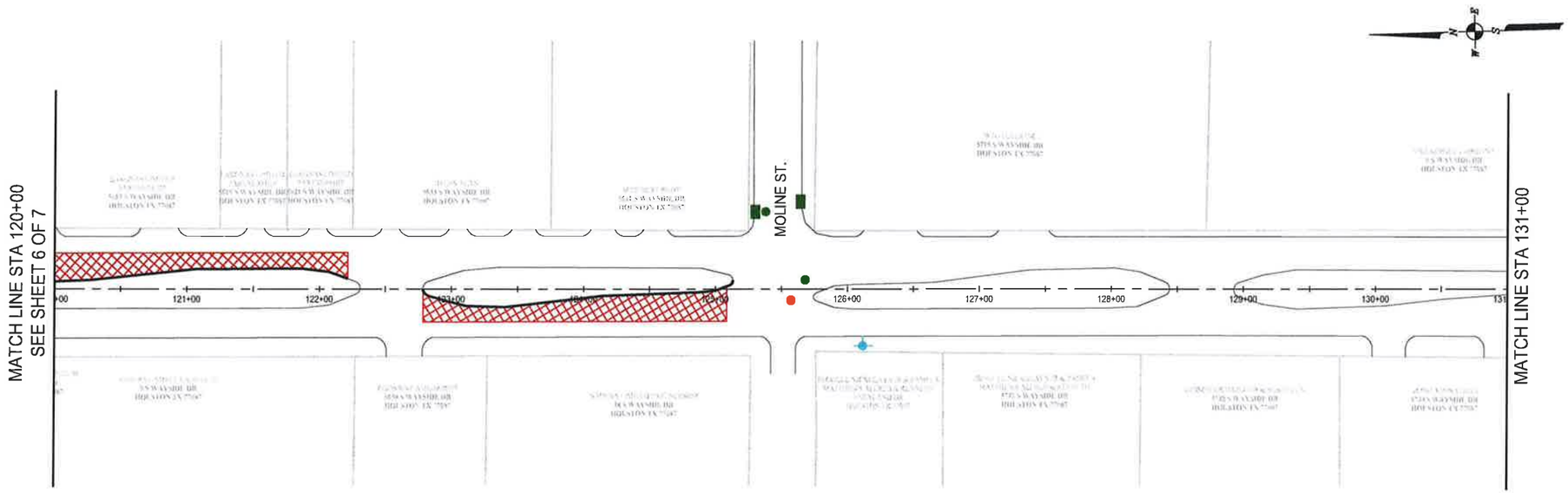
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 16 OF 61

PROJ 12270.3



LEGEND

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- EXISTING FIRE HYDRANT
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SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)

STATE OF TEXAS
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85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

S. WAYSIDE BOULEVARD

NOTE: ALL STATIONS ARE APPROXIMATE.

NO PROFILE
IN THIS AREA

50 45 40 35 30 25 20 15

120+00 125+00 130+00 131+00

PROJ 12270.3

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HOUSTON, HARRIS COUNTY, TEXAS

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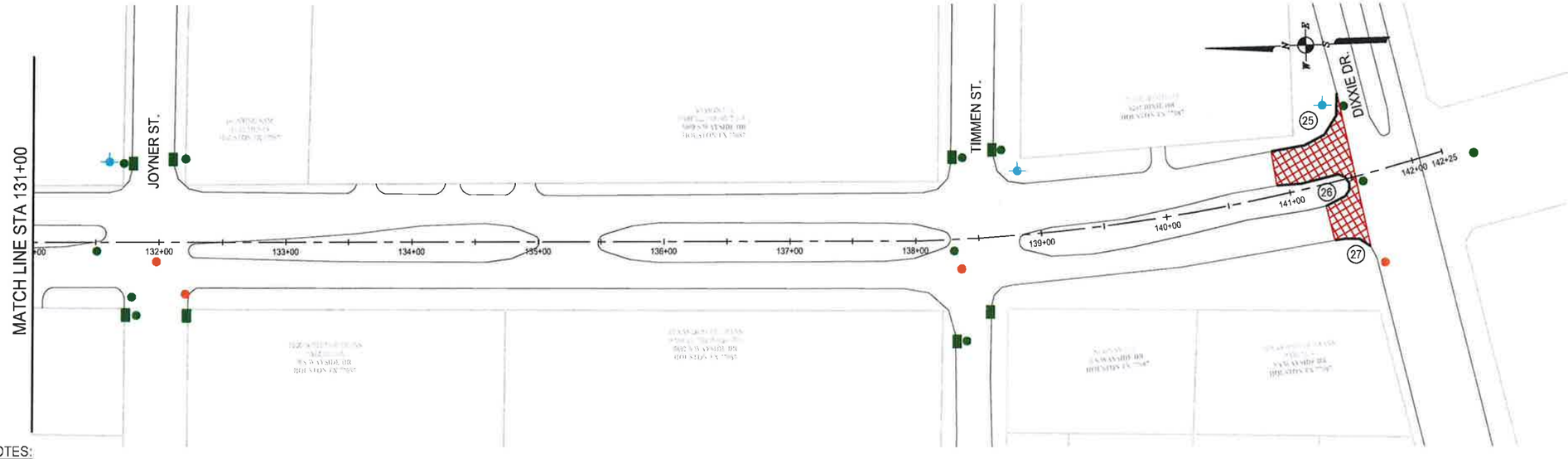
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. | FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 17 OF 61



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SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)

STATE OF TEXAS
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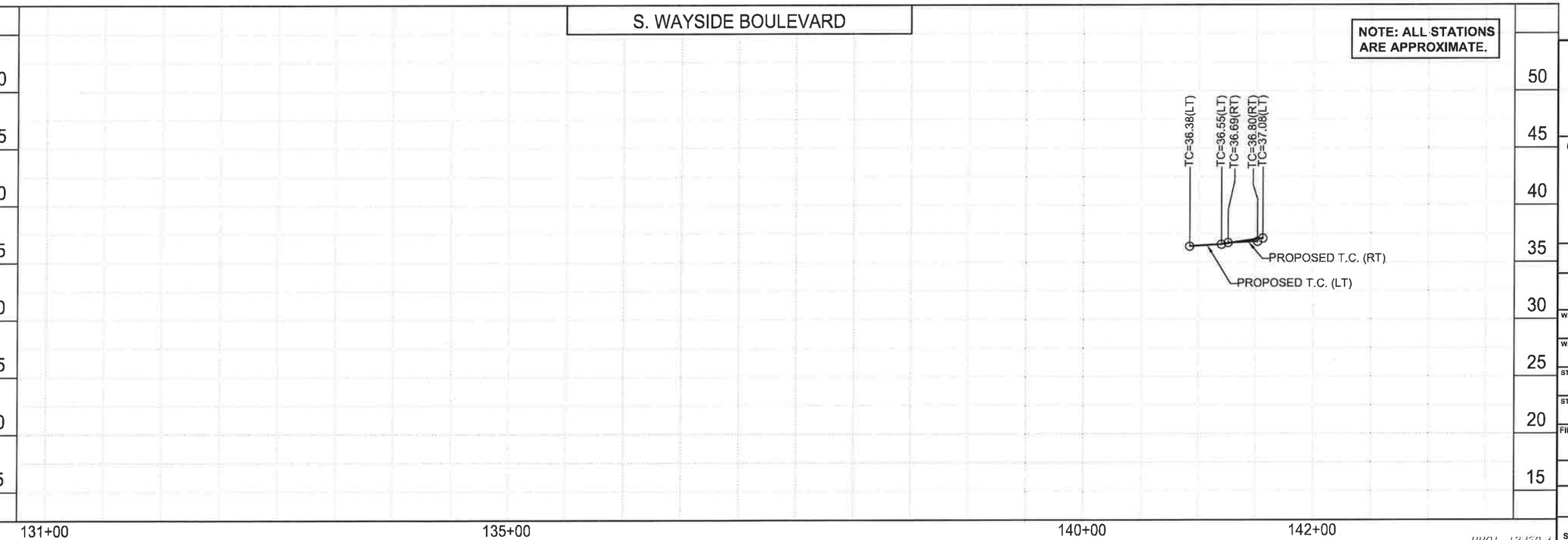
Javier M. Casas 12-5-14



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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

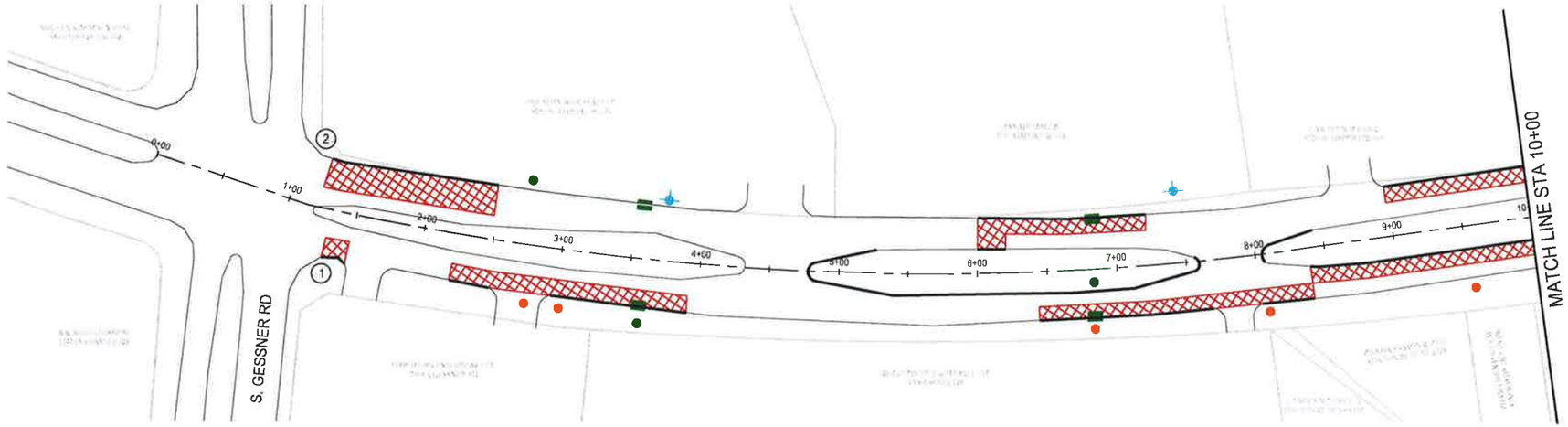
FILE NO.

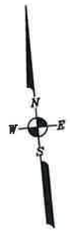
FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 18 OF 61

PROJ. 13270-3





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W. AIRPORT BLVD
SCALE: 1"=100'

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100' 50' 0 100'

10' 5' 0 10'

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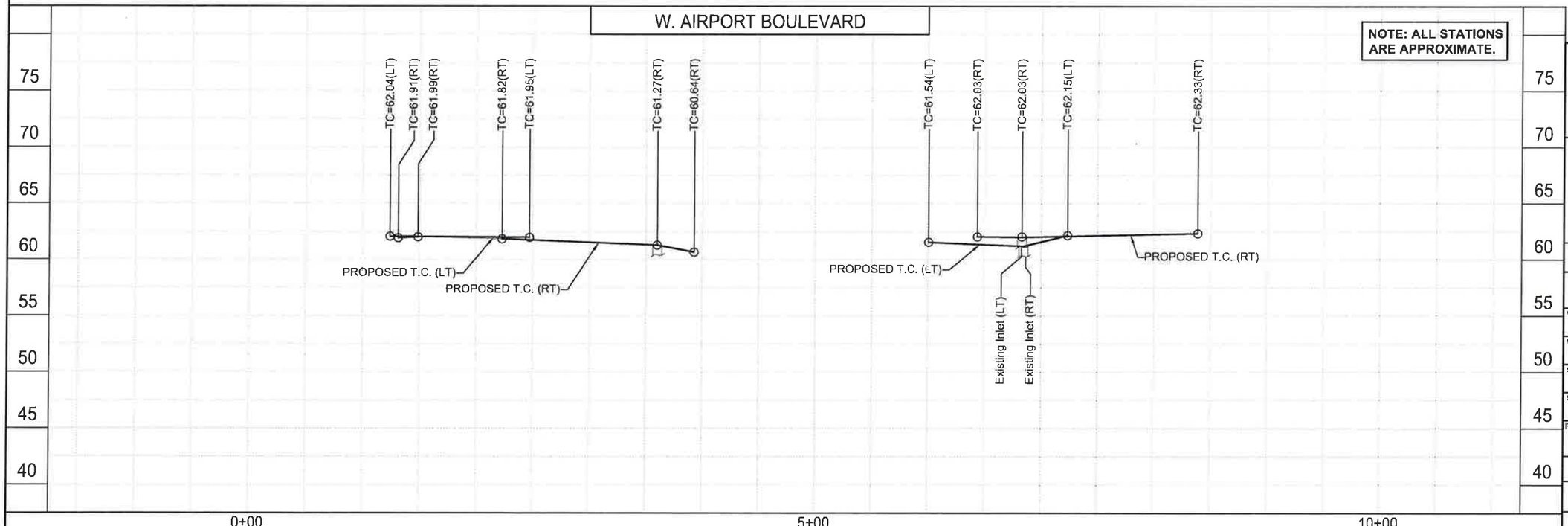

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STORM	FACILITIES
STREET & BRIDGE	

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DRAWING SCALE:
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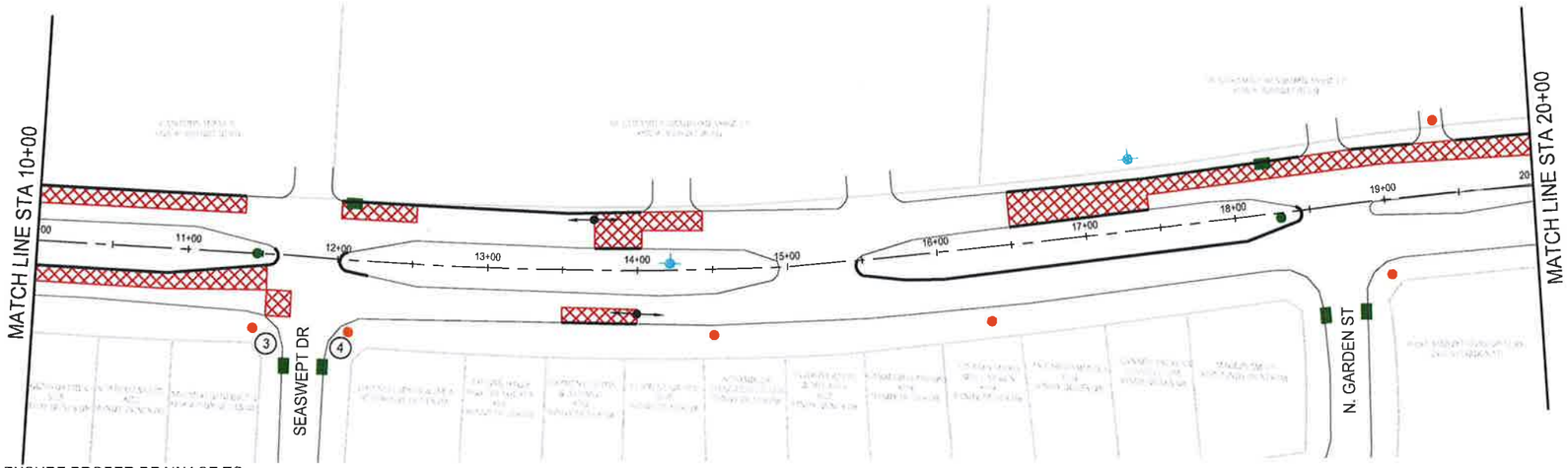
SHEET NO. 19 OF 61

PROJ. 12270-1



W. AIRPORT BLVD
SCALE: 1"=100'



LEGEND

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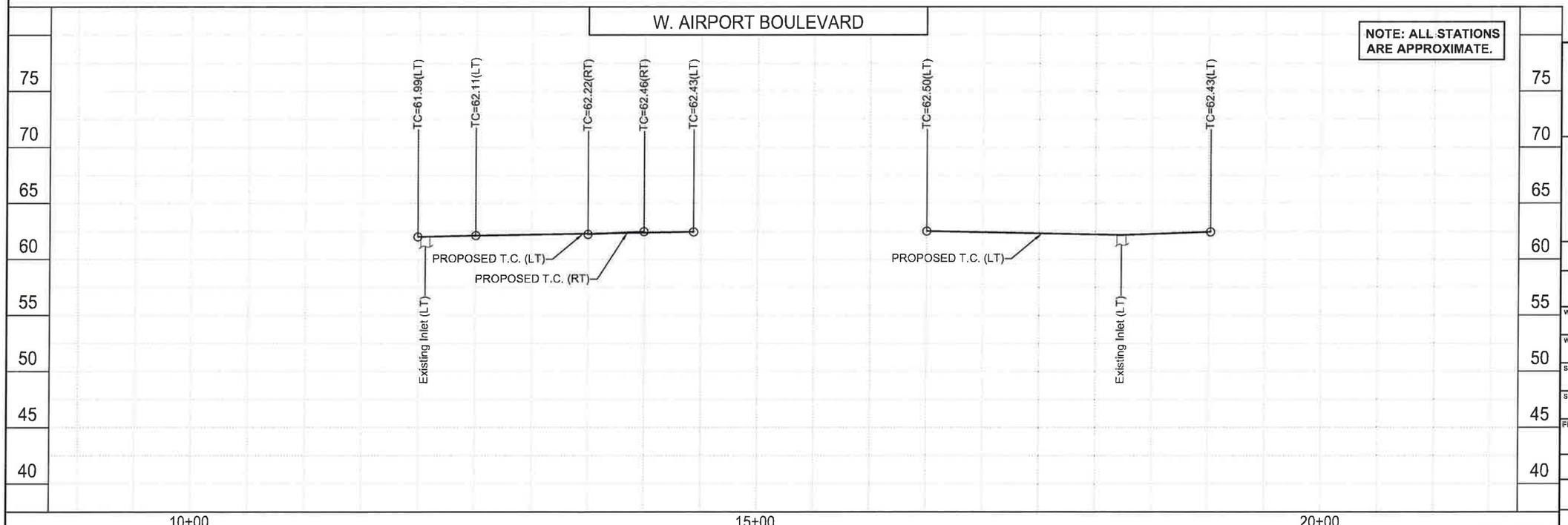

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STORM	FACILITIES
STREET & BRIDGE	

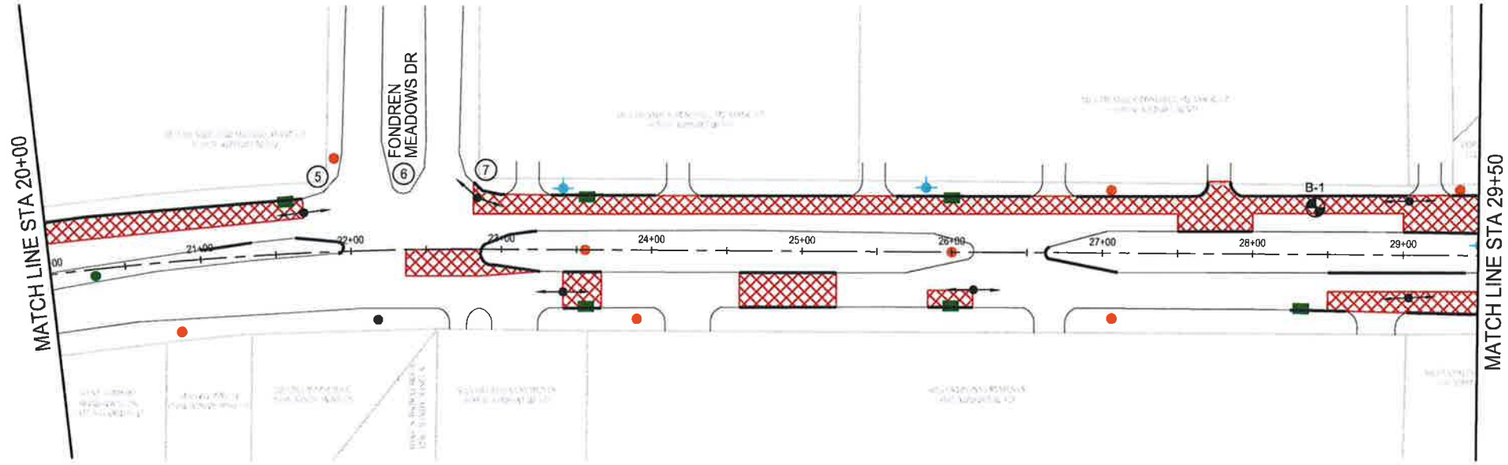
FILE NO.

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 20 OF 61

PROJ. 12270.3





LEGEND

- PROP. FULL DEPTH BASE REPAIR 10" CONCRETE PAVE (FDBR)
- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
- PROP. MEDIAN REPLACEMENT
- PROP. CRACK SEALING
- PROP. CURB OR CURB AND GUTTER REPLACEMENT
- EXISTING SOUTH WESTERN BELL MANHOLE
- EXISTING SANITARY MANHOLE
- UNKNOWN MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

NOTES:

1. CONTRACTOR TO ENSURE PROPER DRAINAGE TO EXISTING INLETS AT ALL TIMES.
2. PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH CURRENT CITY OF HOUSTON STANDARD DRAWING 02763-01.
3. UTILITIES AND PAVEMENT ARE APPROXIMATE AND ARE NOT BASED ON SURVEY DATA.
4. ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)/CORS (2011 ADJ.) 2010 EPOCH DATE/GEOID12A. (PROVIDED BY LANDTECH CONSULTANTS)

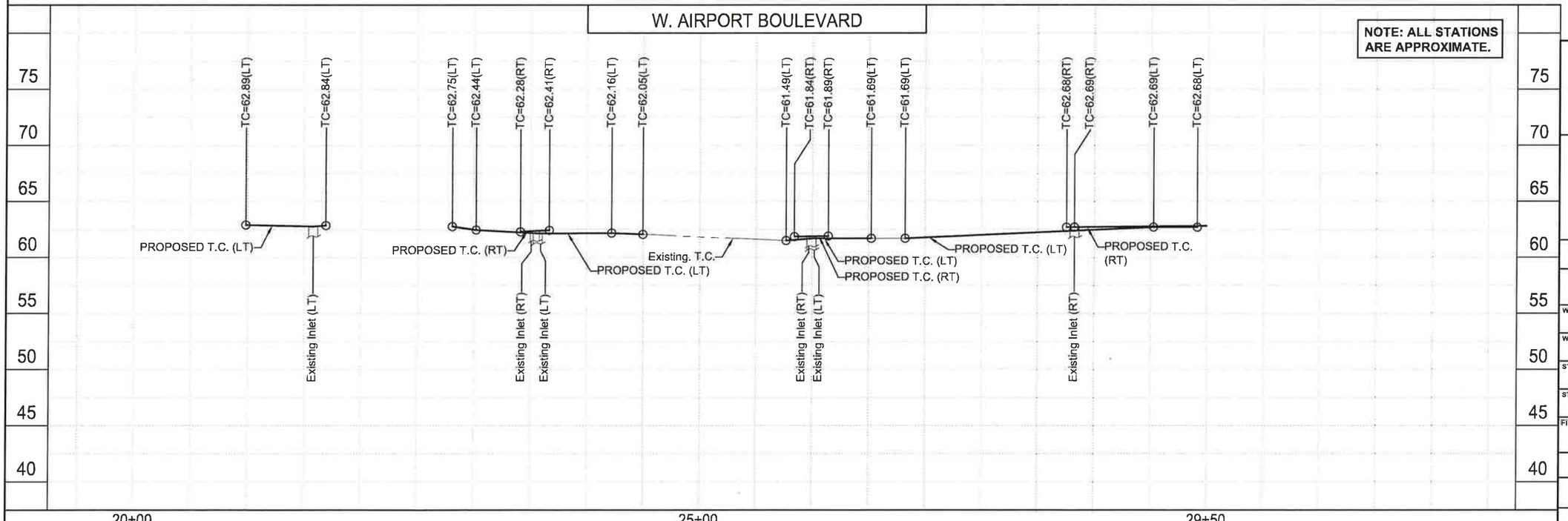
W. AIRPORT BLVD
SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)



STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
12-5-14

McDONOUGH
Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
5625 Schumacher Lane (713) 975-9990
Houston, Texas 77057 www.mectx.com

CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
W. AIRPORT BLVD.-PLAN & PROFILE
STA 20+00 TO STA 29+50
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 21 OF 61

PROJ. 12270.3



LEGEND

- PROP. FULL DEPTH BASE REPAIR 10" CONCRETE PAVE (FDBR)
- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
- PROP. MEDIAN REPLACEMENT
- PROP. CRACK SEALING
- PROP. CURB OR CURB AND GUTTER REPLACEMENT
- EXISTING SOUTH WESTERN BELL MANHOLE
- EXISTING SANITARY MANHOLE
- UNKNOWN MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

NOTES:

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W. AIRPORT BLVD
SCALE: 1"=100'

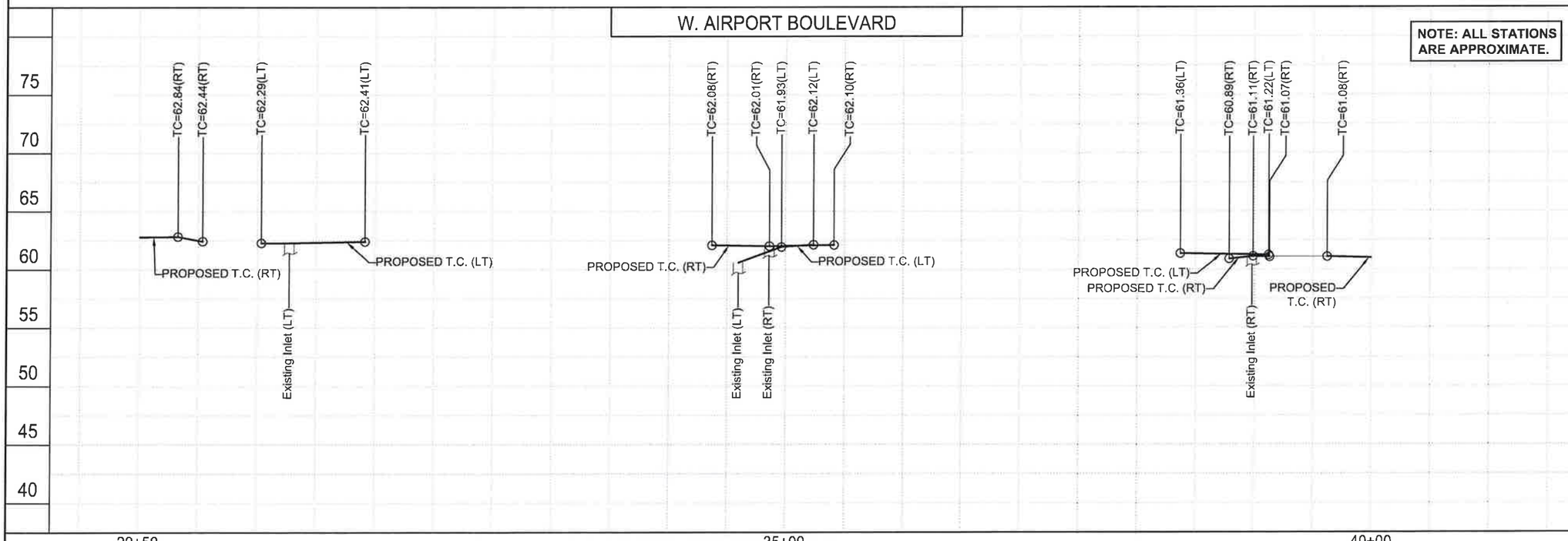
SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14



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HOUSTON, HARRIS COUNTY, TEXAS

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

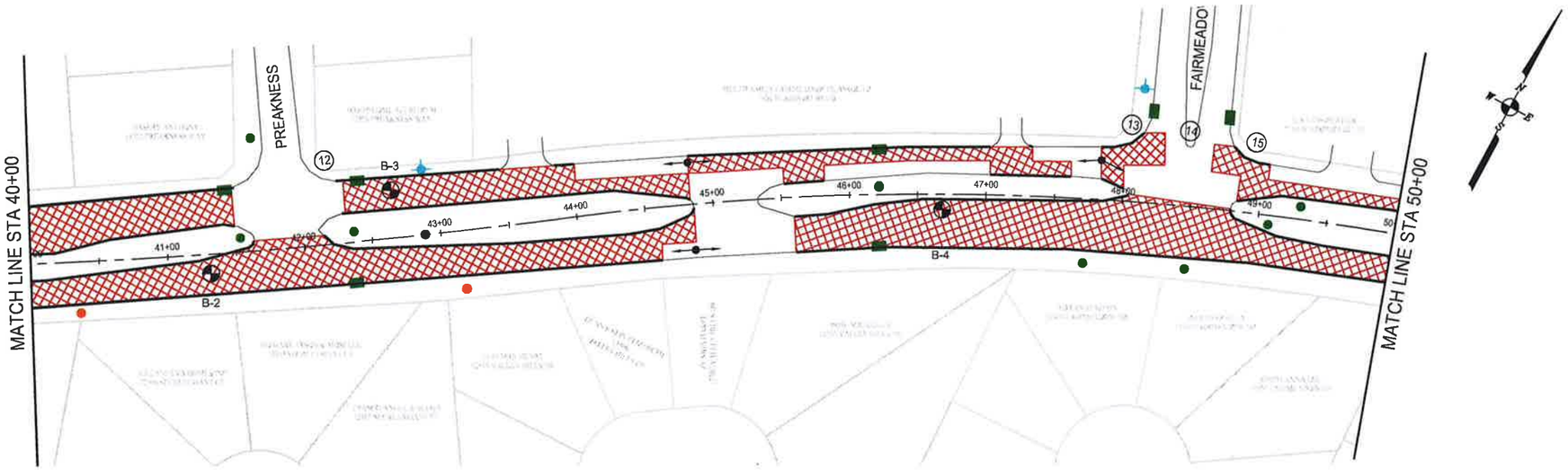
FILE NO.

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 22 OF 61

PROJ 12270.3



LEGEND

- PROP. FULL DEPTH BASE REPAIR 10" CONCRETE PAVE (FDBR)
- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
- PROP. MEDIAN REPLACEMENT
- PROP. CRACK SEALING
- PROP. CURB OR CURB AND GUTTER REPLACEMENT
- EXISTING SOUTH WESTERN BELL MANHOLE
- EXISTING SANITARY MANHOLE
- UNKNOWN MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

NOTES:

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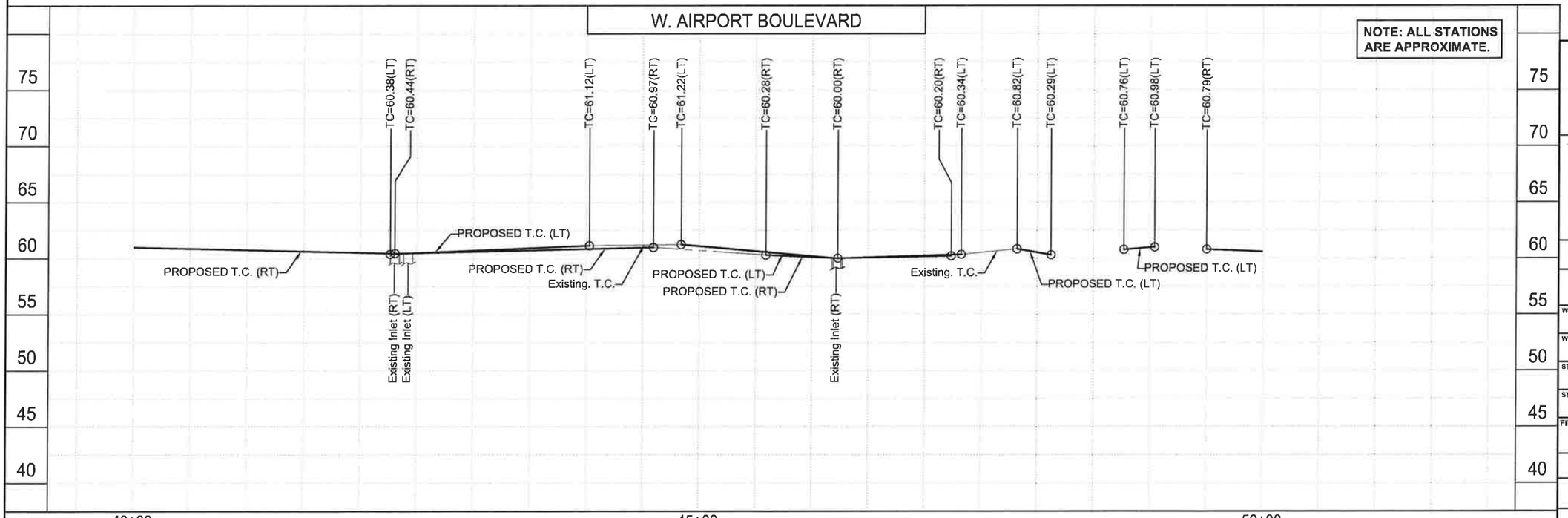
W. AIRPORT BLVD
SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)



STATE OF TEXAS
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Javier M. Casas
12-5-14

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W. AIRPORT BLVD.-PLAN & PROFILE
STA 40+00 TO STA 50+00
HOUSTON, HARRIS COUNTY, TEXAS

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

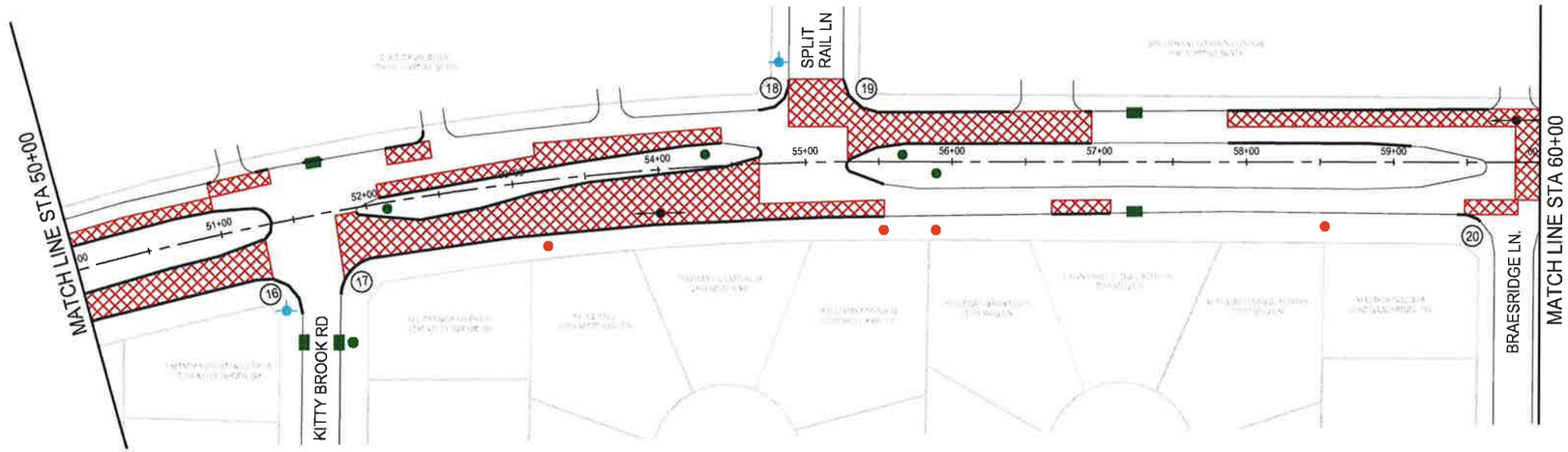
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

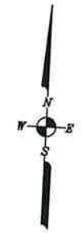
DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 23 OF 61

PROJ 12270.3



W. AIRPORT BLVD
SCALE: 1"=100'



LEGEND

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- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
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- EXISTING SANITARY MANHOLE
- UNKNOWN MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CITY STORM INLET
- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SBC/ATT MANHOLE
- EXISTING DRIVEWAY
- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

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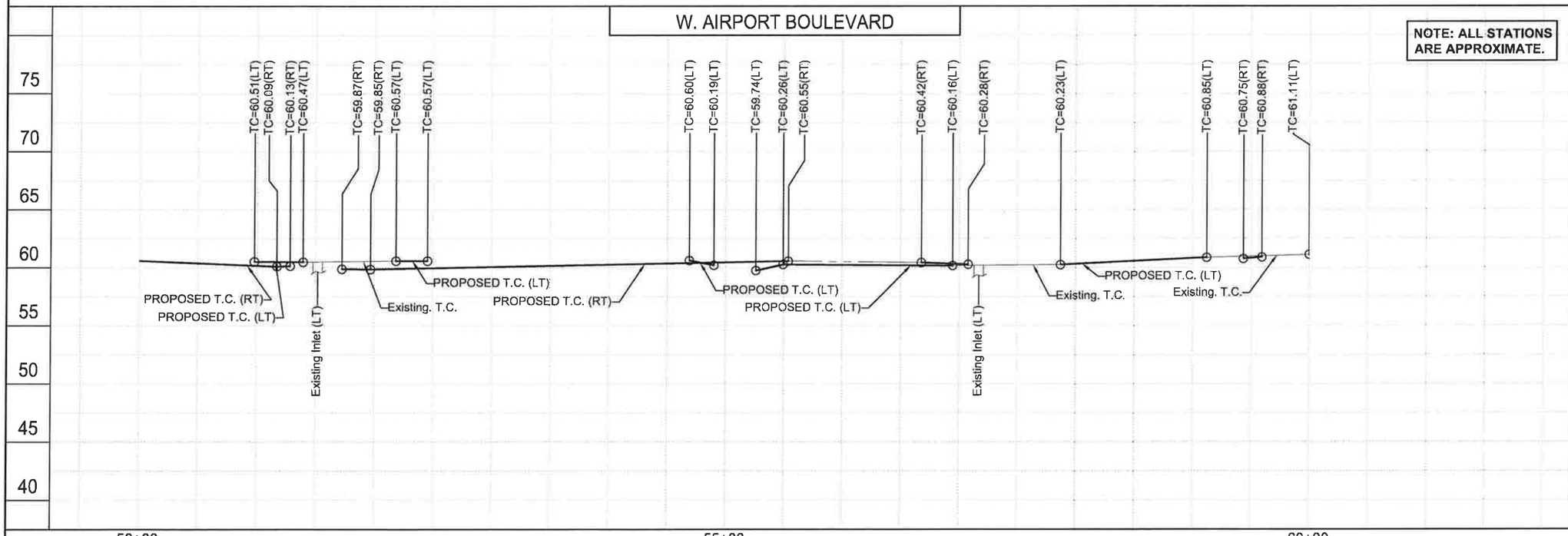
SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)



STATE OF TEXAS
JAVIER M. CASAS
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Javier M. Casas 12-5-14

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PANEL REPLACEMENT PROJECT
W. AIRPORT BLVD.-PLAN & PROFILE
STA 50+00 TO STA 60+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

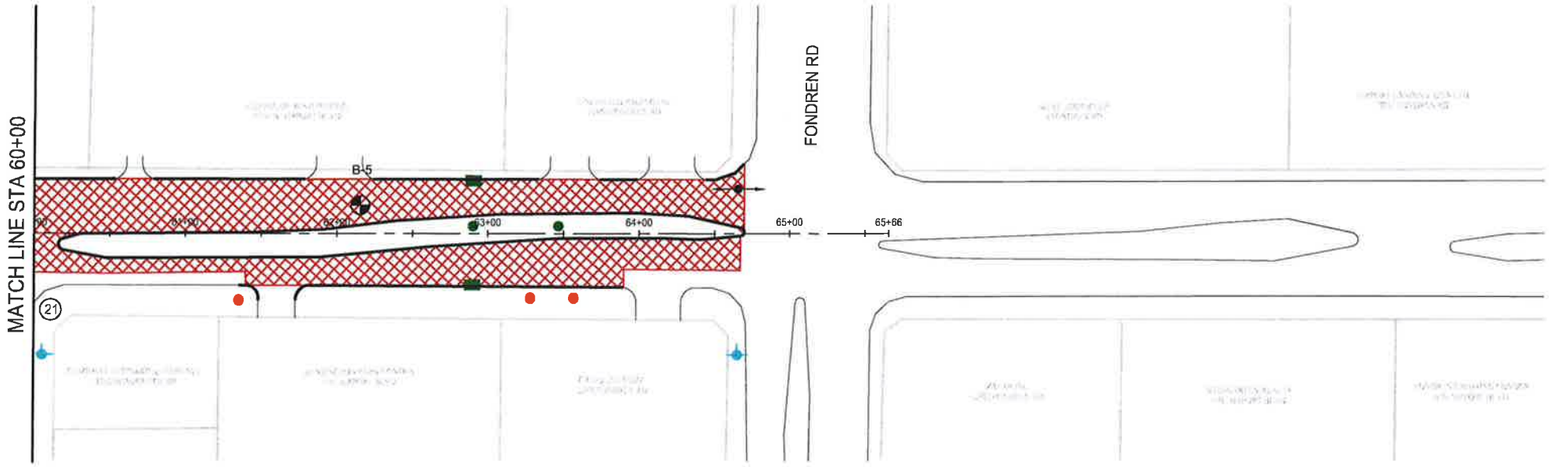
FILE NO.

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 24 OF 61

PROJ 12270.3





LEGEND

- PROP. FULL DEPTH BASE REPAIR 10" CONCRETE PAVE (FDBR)
- PROP. FULL DEPTH BASE REPAIR 8" CONCRETE PAVE (FDBR)
- PROP. MEDIAN REPLACEMENT
- PROP. CRACK SEALING
- PROP. CURB OR CURB AND GUTTER REPLACEMENT
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- UNKNOWN MANHOLE
- EXISTING STORM MANHOLE
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- EXISTING WATER MANHOLE
- EXISTING FIRE HYDRANT
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- (1) PEDESTRIAN CURB RAMP #
- GEOTECHNICAL BORING LOCATION
- HIGH POINT (APPROX.)

NOTES:

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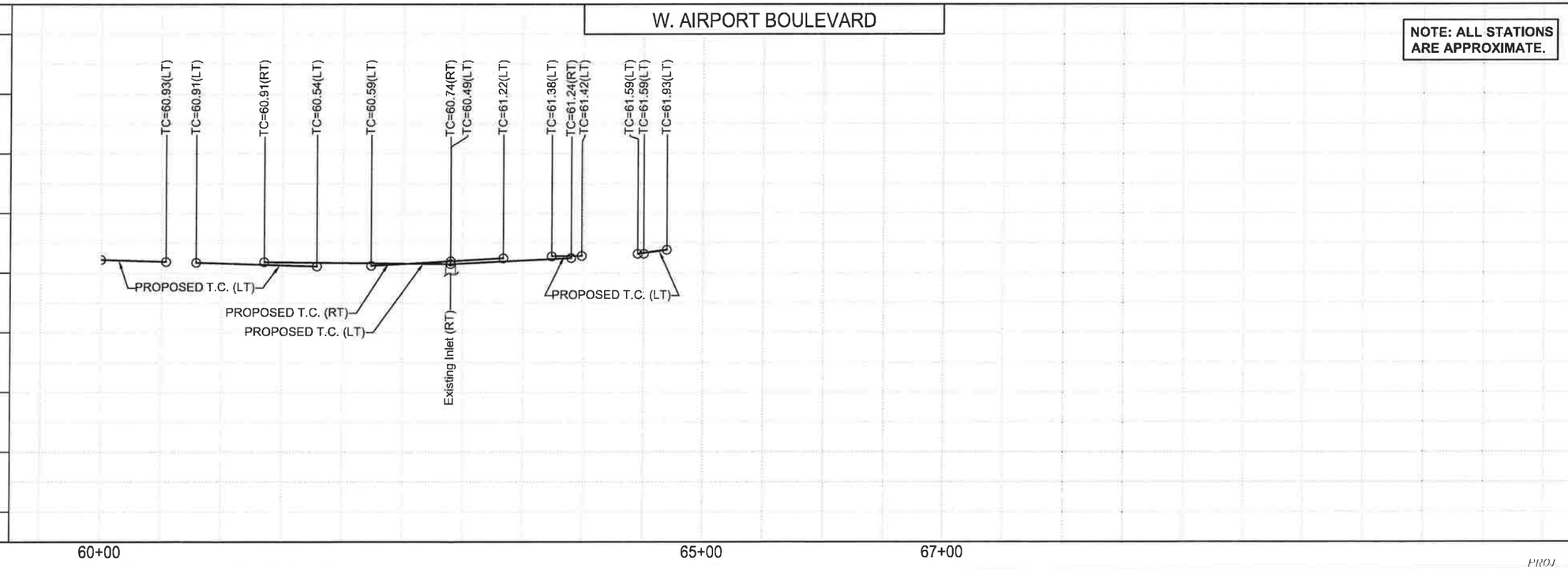
W. AIRPORT BLVD
SCALE: 1"=100'

SCALE 1"= 100' (HORIZONTAL)

100' 50' 0 100'

10' 5' 0 10'

SCALE 1"= 10' (VERTICAL)



STATE OF TEXAS
JAVIER M. CASAS
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LICENSED
PROFESSIONAL ENGINEER
12-5-14

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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
W. AIRPORT BLVD.-PLAN & PROFILE
STA 60+00 TO STA 65+66
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

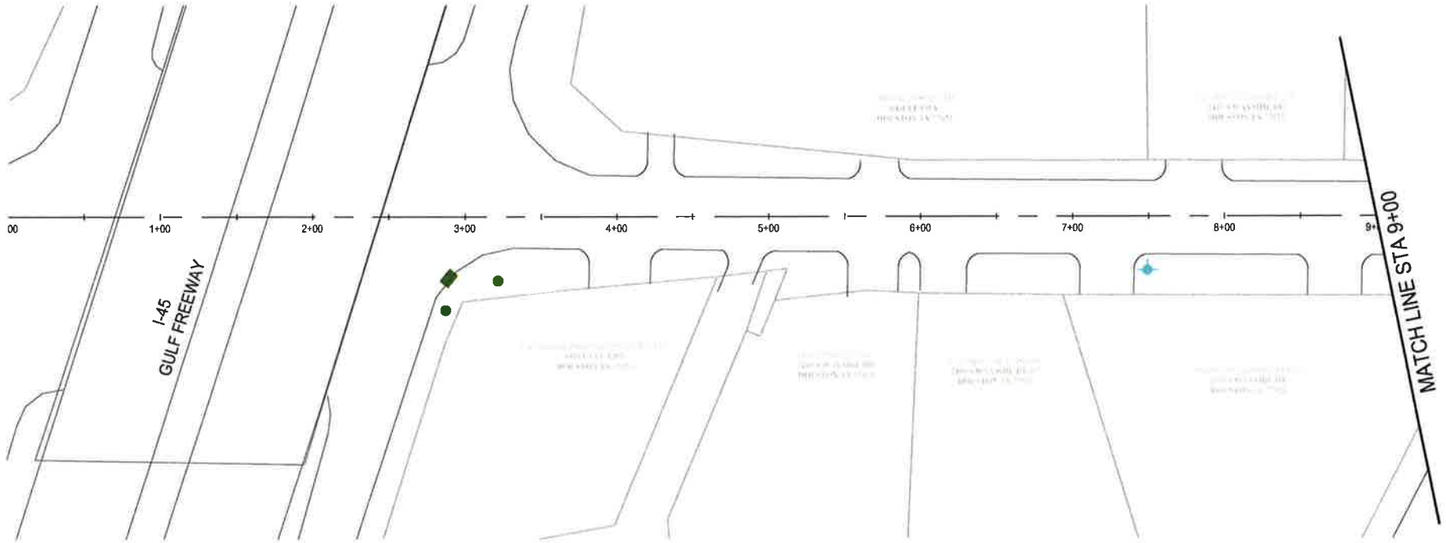
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

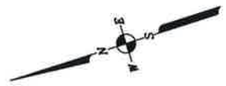
DRAWING SCALE:
H: 1" = 100'
V: 1" = 10'

SHEET NO. 25 OF 61

PROJ 13270.3



S. WAYSIDE BOULEVARD
SCALE: 1"=100'



LEGEND

1. CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2. STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3. LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4. LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5. 4" SO. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6. ONLY — REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7. REFL PAV MRK TY 1 (W) (ARROW)
8. 4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

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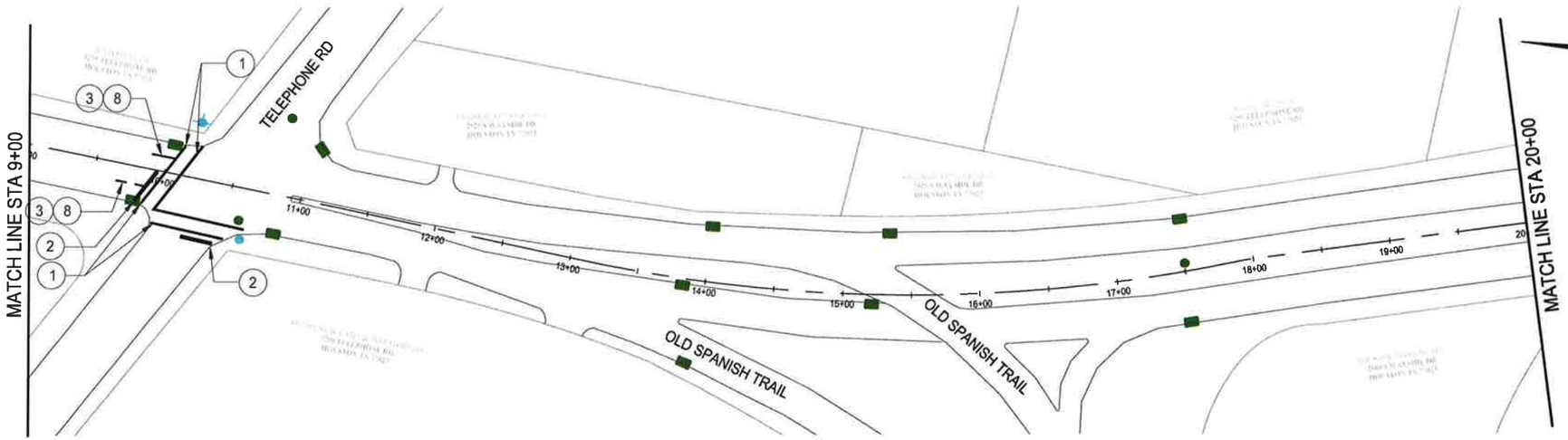
3. UTILITIES AND PAVEMENT ARE APPROXIMATE AND ARE NOT BASED ON SURVEY DATA.



S. WAYSIDE BOULEVARD
SCALE: 1"=100'

100 50 0 100
SCALE: 1"=100'

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PANEL REPLACEMENT PROJECT
S. WAYSIDE DR.-PAVEMENT MARKING LAYOUT
STA 0+00 TO STA 20+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

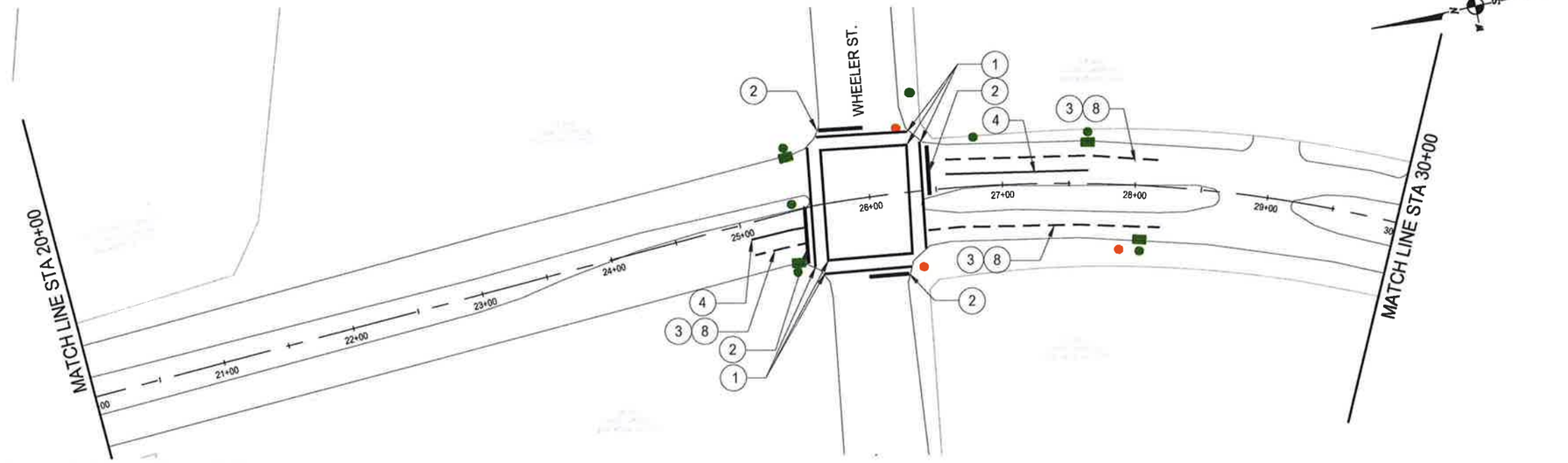
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.
FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:
H: 1" = 100'
SHEET NO. 26 OF 61

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

PROJ 12270.3



LEGEND

1. CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2. STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3. LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4. LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5. 4" SO. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6. ONLY — REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7. REFL PAV MRK TY 1 (W) (ARROW)
8. 4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

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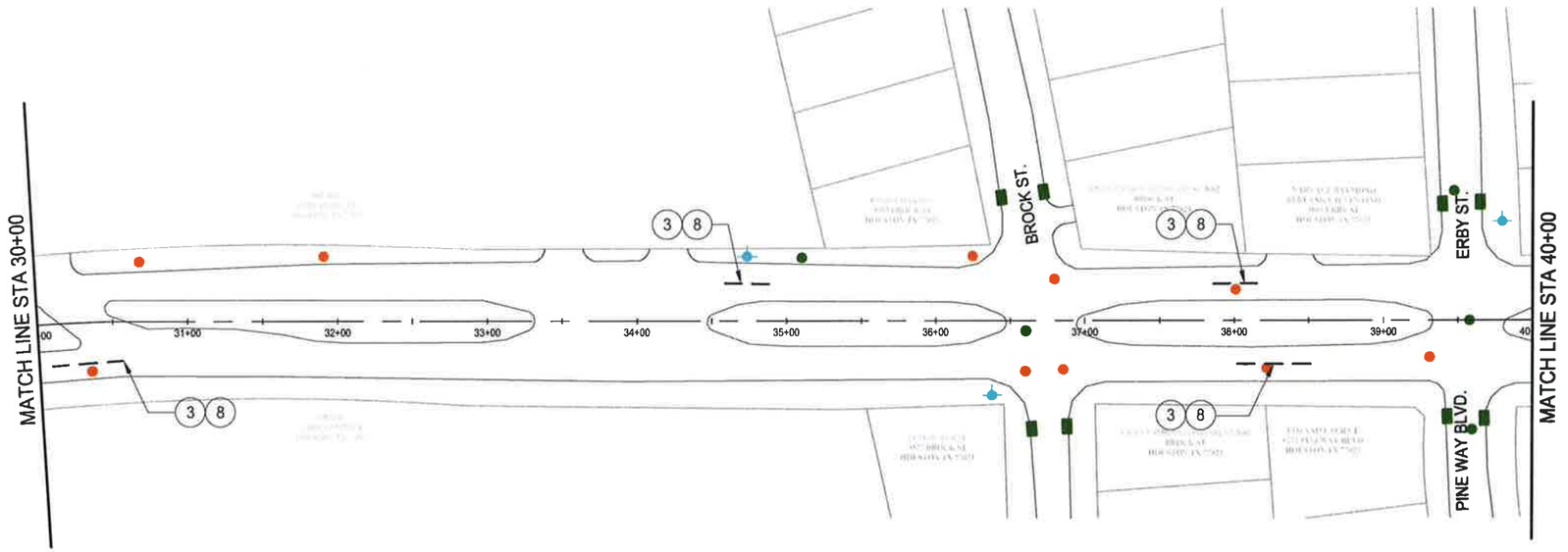
S. WAYSIDE BOULEVARD

SCALE: 1"=100'



S. WAYSIDE BOULEVARD

SCALE: 1"=100'

100 50 0 100

SCALE: 1"=100'

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'

SHEET NO. 27 OF 61

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

PROJ. 12270.3



S. WAYSIDE BOULEVARD

SCALE: 1"=100'



LEGEND

1. CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2. STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3. LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4. LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5. 4" SO. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6. REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7. REFL PAV MRK TY 1 (W) (ARROW)
8. 4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

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S. WAYSIDE BOULEVARD

SCALE: 1"=100'



100 50 0 100

SCALE: 1"=100'

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

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WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.

FOR CITY OF HOUSTON USE ONLY

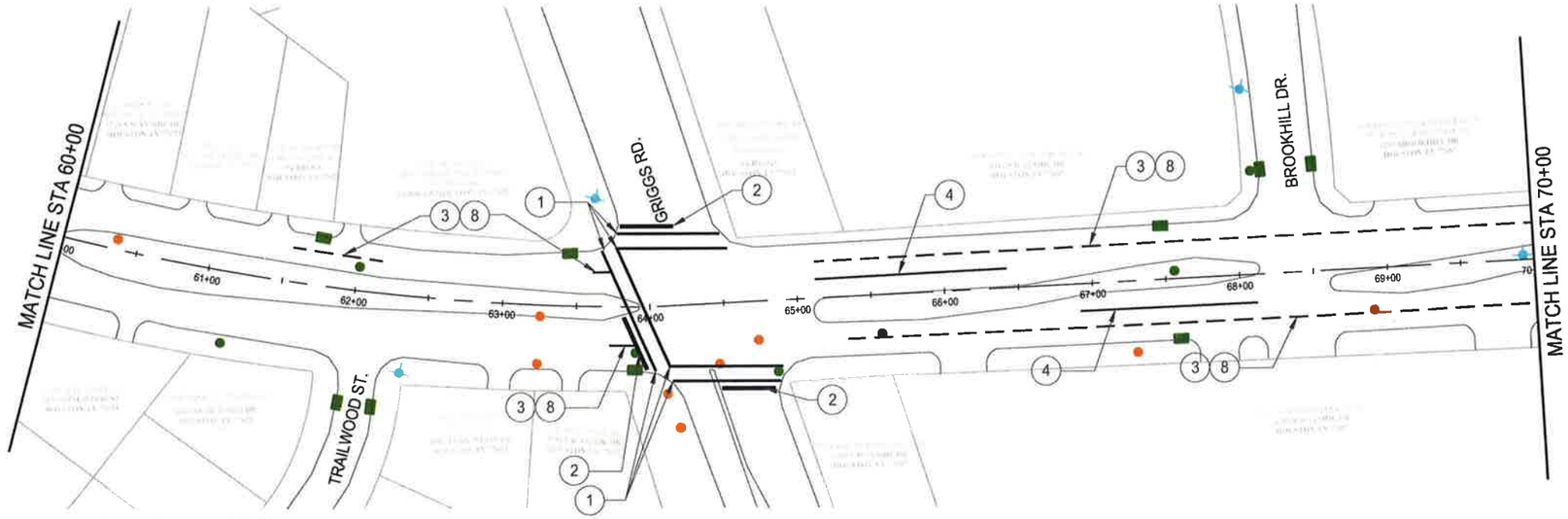
DRAWING SCALE:

H: 1" = 100'

SHEET NO. 28 OF 61



PROJ. 12270.3



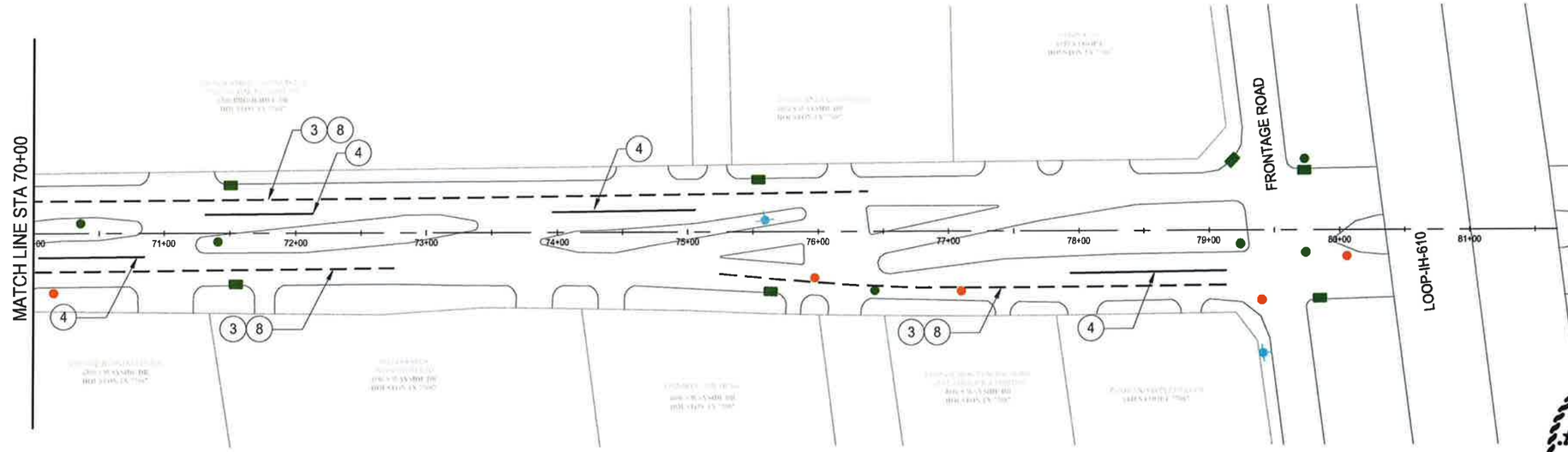
S. WAYSIDE BOULEVARD
SCALE: 1"=100'

NOTES:

1. CONTRACTOR TO ENSURE PROPER DRAINAGE TO EXISTING INLETS AT ALL TIMES.
2. PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH CURRENT CITY OF HOUSTON STANDARD DRAWING 02763-01.
3. UTILITIES AND PAVEMENT ARE APPROXIMATE AND ARE NOT BASED ON SURVEY DATA.

LEGEND

1	▬▬	CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2	▬▬	STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3	— —	LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4	———	LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5	□	4" SQ. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6	ONLY	REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7	⇧	REFL PAV MRK TY 1 (W) (ARROW)
8		4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C



S. WAYSIDE BOULEVARD
SCALE: 1"=100'

100 50 0 100
SCALE: 1"=100'

McDONOUGH
Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
5625 Schumacher Lane
Houston, Texas 77057
(713) 975-9990
www.mectx.com

CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
S. WAYSIDE DR.-PAVEMENT MARKING LAYOUT
STA 60+00 TO STA 82+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

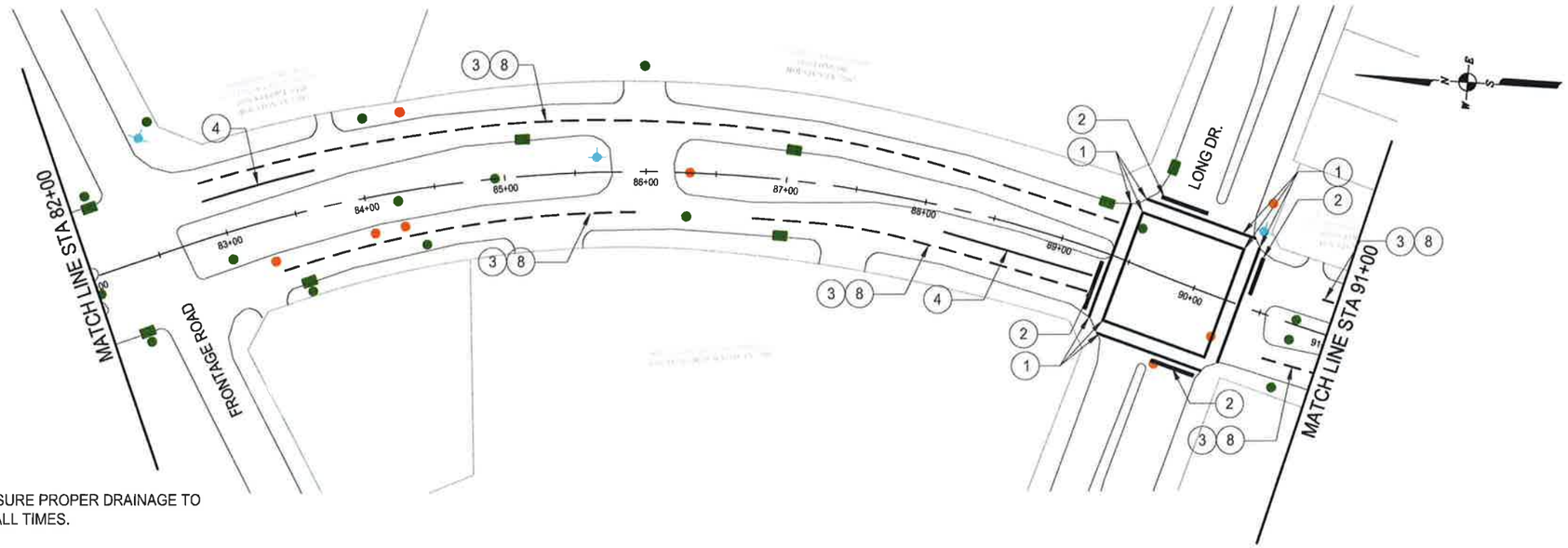
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.
FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:
H: 1" = 100'
SHEET NO. 29 OF 61

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

PROJ. 12270.3



S. WAYSIDE BOULEVARD
SCALE: 1"=100'

LEGEND		
1		CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2		STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3		LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4		LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5		4" SQ. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6	ONLY	REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7		REFL PAV MRK TY 1 (W) (ARROW)
8		4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

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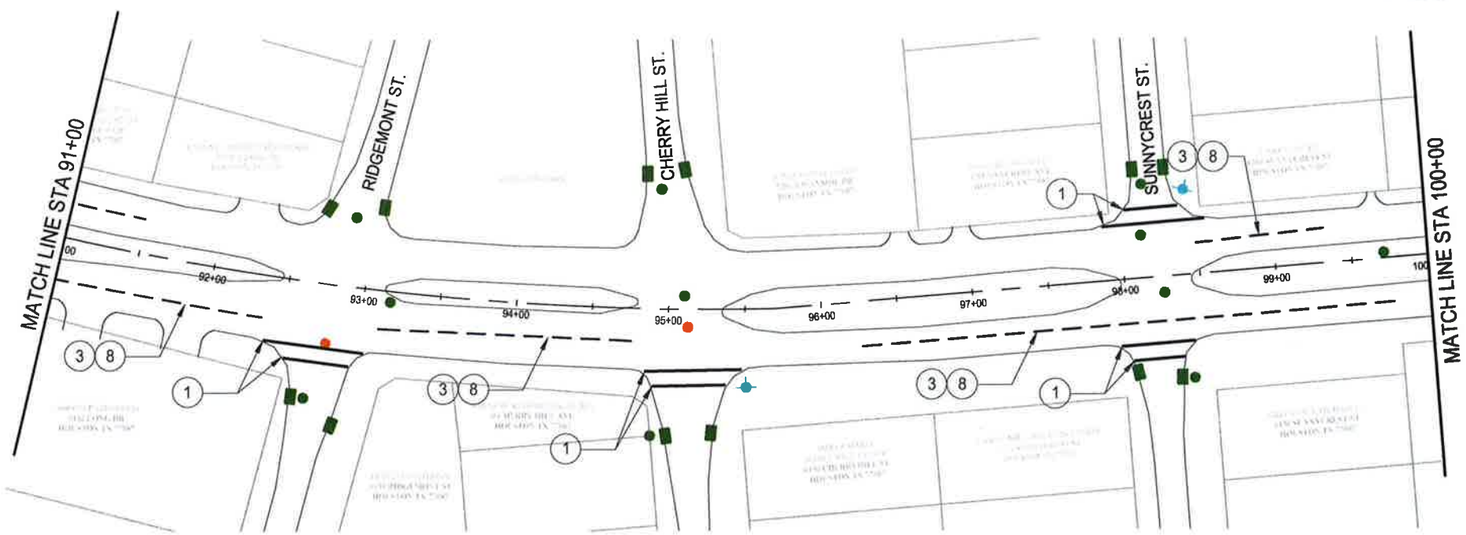

S. WAYSIDE BOULEVARD
SCALE: 1"=100'

100 50 0 100
SCALE: 1"=100'

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PANEL REPLACEMENT PROJECT
S. WAYSIDE DR.-PAVEMENT MARKING LAYOUT
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HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

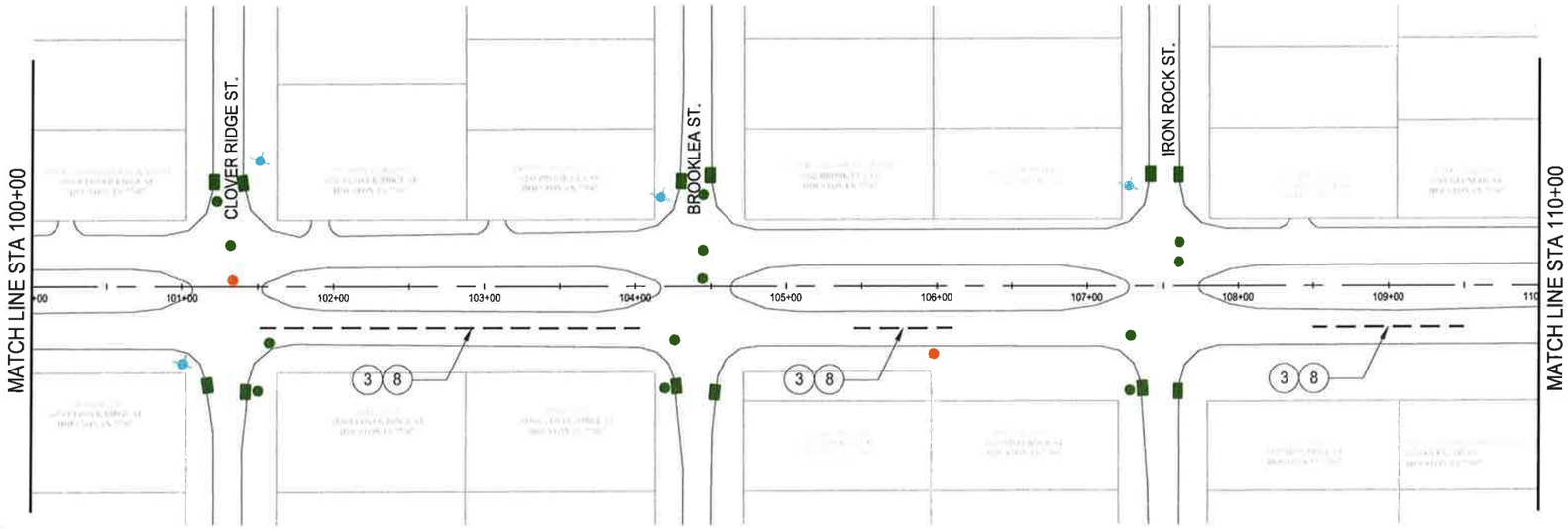
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.
FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:
H: 1" = 100'
SHEET NO. 30 OF 61

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

PROJ. 12270.3



NOTES:

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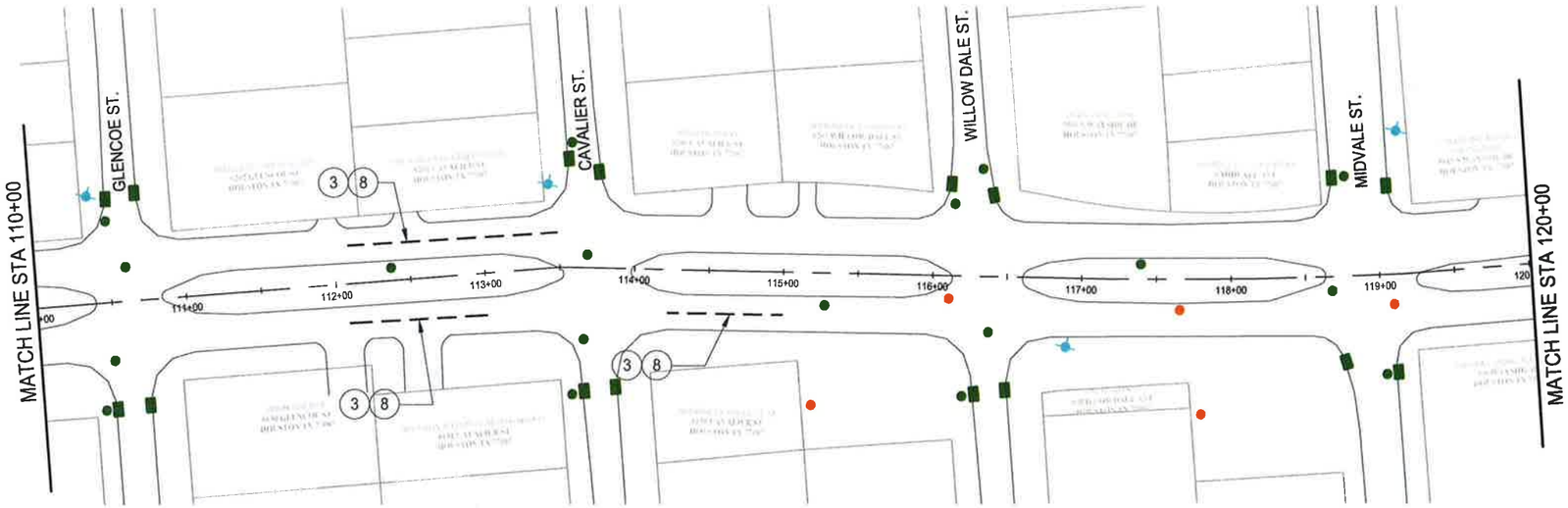
S. WAYSIDE BOULEVARD

SCALE: 1"=100'

LEGEND

1. CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2. STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3. LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4. LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5. 4" SQ. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6. REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7. REFL PAV MRK TY 1 (W) (ARROW)
8. 4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C



S. WAYSIDE BOULEVARD

SCALE: 1"=100'

100 50 0 100

SCALE: 1"=100'

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PANEL REPLACEMENT PROJECT
S. WAYSIDE DR.-PAVEMENT MARKING LAYOUT
STA 100+00 TO STA 120+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

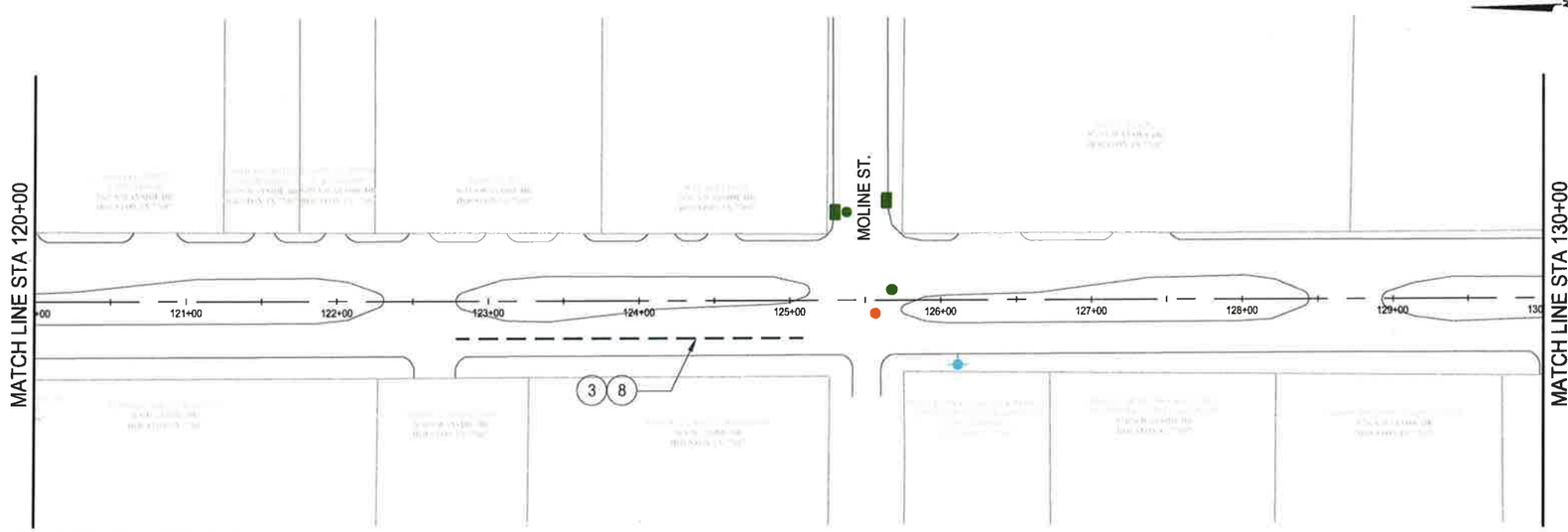
FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE: H: 1" = 100'

SHEET NO. 31 OF 61

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

PROJ. 12270.3



S. WAYSIDE BOULEVARD
SCALE: 1"=100'

LEGEND

1. CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2. STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3. LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4. LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5. 4" SQ. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6. REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7. REFL PAV MRK TY 1 (W) (ARROW)
8. 4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

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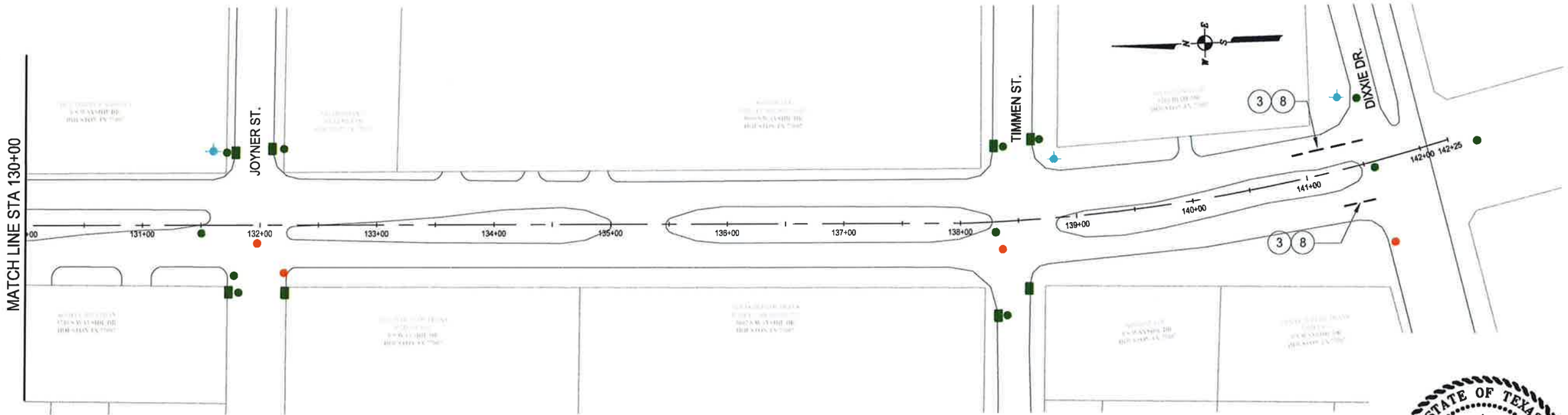


S. WAYSIDE BOULEVARD
SCALE: 1"=100'

100 50 0 100
SCALE: 1"=100'

McDONOUGH
Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
5625 Schumacher Lane
Houston, Texas 77057
(713) 975-9990
www.mectx.com

CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
S. WAYSIDE DR.-PAVEMENT MARKING LAYOUT
STA 120+00 TO STA 142+25
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

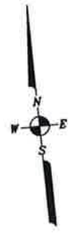
FILE NO.
FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: H: 1" = 100'
SHEET NO. 32 OF 61

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
12-5-14

PROJ. 12270.3



W. AIRPORT BLVD
SCALE: 1"=100'



LEGEND

1	═══	CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2	▬▬▬	STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3	— — —	LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4	———	LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5	▫	4" SQ. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6	ONLY	REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7	⇧	REFL PAV MRK TY 1 (W) (ARROW)
8		4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

1. CONTRACTOR TO ENSURE PROPER DRAINAGE TO EXISTING INLETS AT ALL TIMES.
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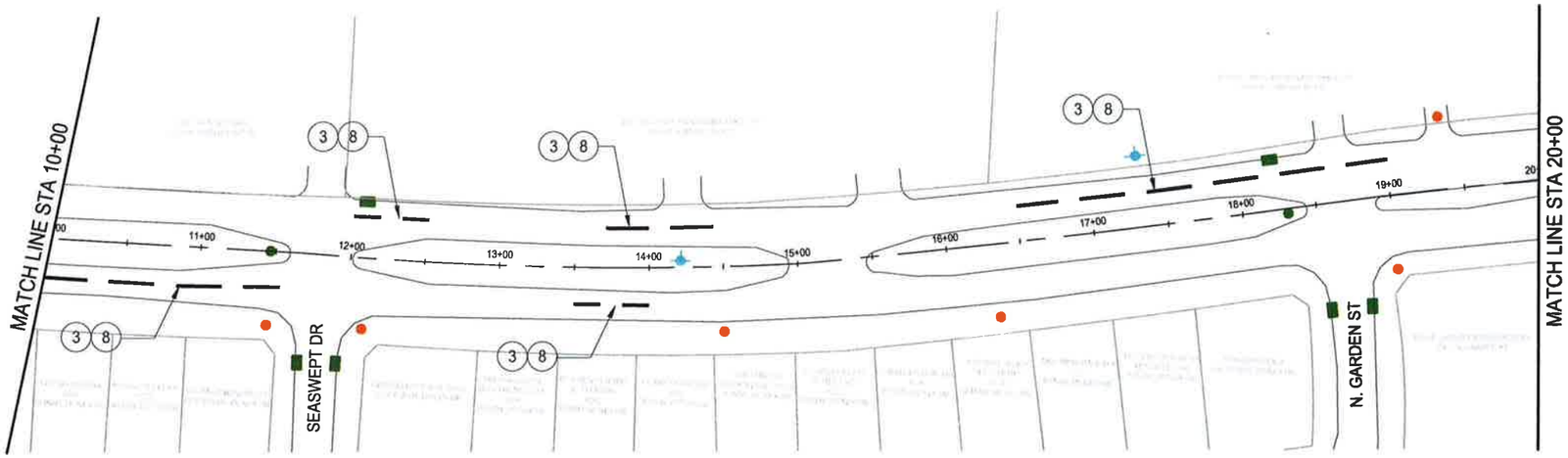

W. AIRPORT BLVD
SCALE: 1"=100'



100 50 0 100

SCALE: 1"=100'

McDONOUGH
Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
5625 Schumacher Lane
Houston, Texas 77057
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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
W. AIRPORT BLVD.-PAVEMENT MARKING LAYOUT
STA 0+00 TO STA 20+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

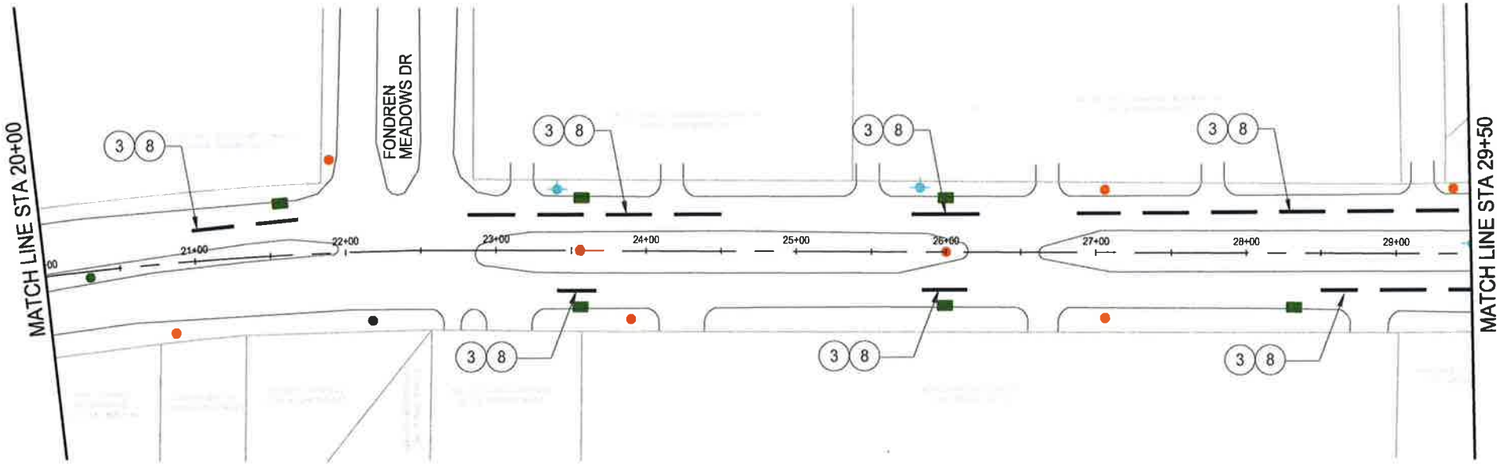
FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'

SHEET NO. 33 OF 61

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

PROJ. 12270.3



W. AIRPORT BLVD
SCALE: 1"=100'

LEGEND

1. CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2. STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3. LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4. LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5. 4" SQ. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6. REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7. REFL PAV MRK TY 1 (W) (ARROW)
8. 4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

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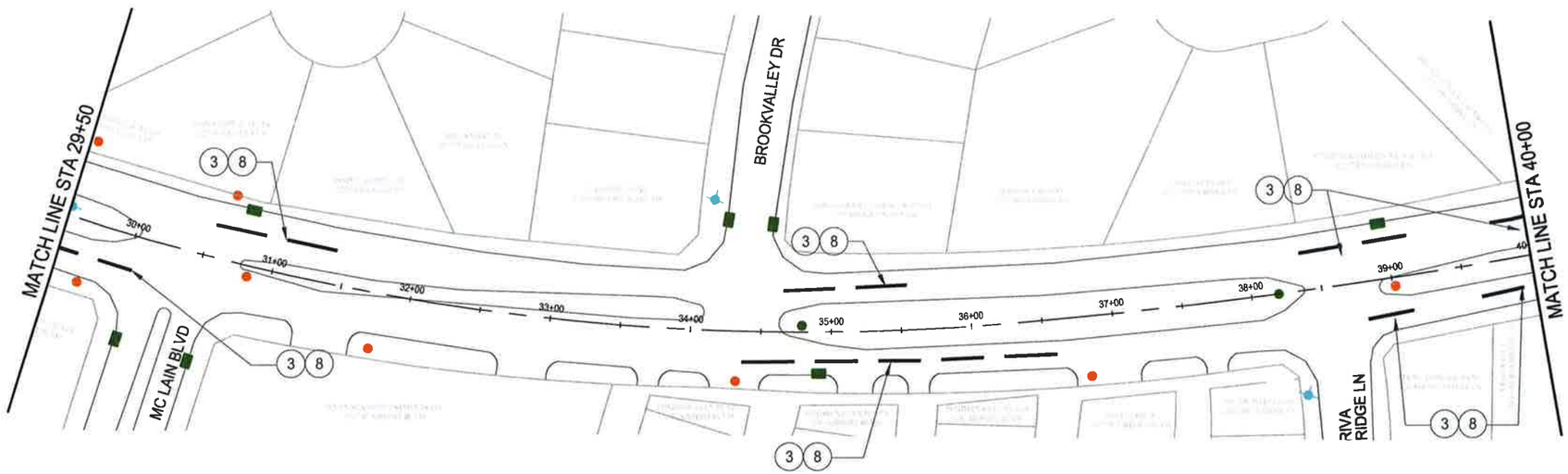

W. AIRPORT BLVD
SCALE: 1"=100'

100 50 0 100
SCALE: 1"=100'

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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
W. AIRPORT BLVD.-PAVEMENT MARKING LAYOUT
STA 20+00 TO STA 40+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

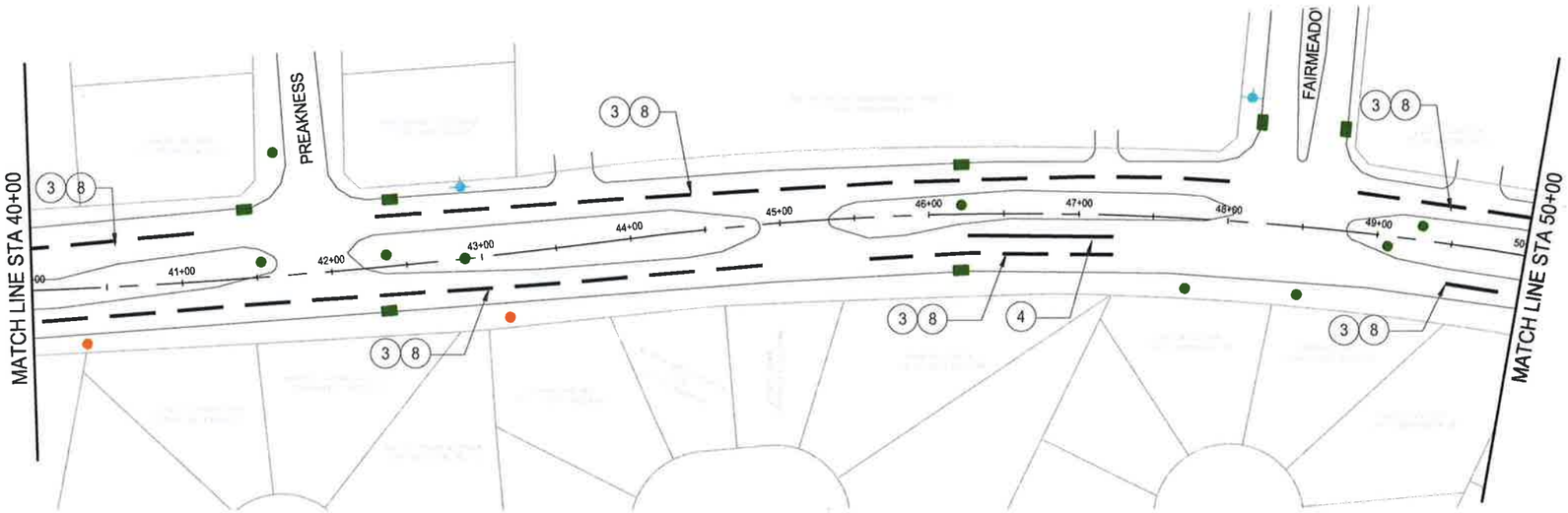
FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'

SHEET NO. 34 OF 61

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
12-5-14

PROJ 12270.3



W. AIRPORT BLVD
SCALE: 1"=100'

LEGEND

1. CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2. STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3. LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4. LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5. 4" SQ. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6. REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7. REFL PAV MRK TY 1 (W) (ARROW)
8. 4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

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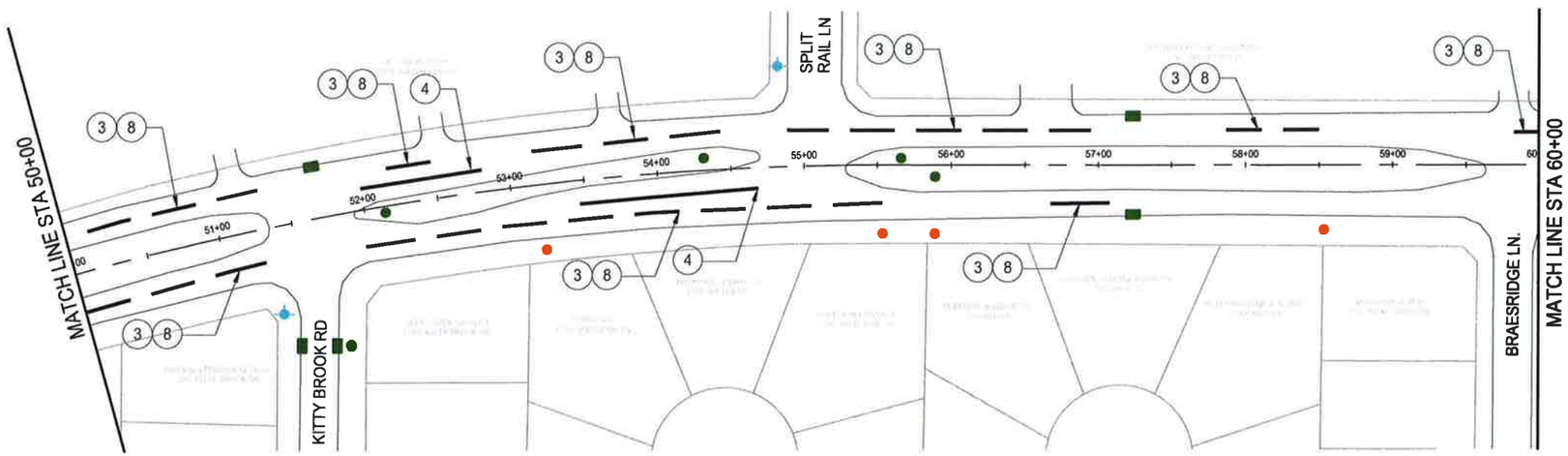

W. AIRPORT BLVD
SCALE: 1"=100'

100 50 0 100
SCALE: 1"=100'

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas 12-5-14

PROJ. 12270.3

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CITY WIDE OVERLAY PROJECT
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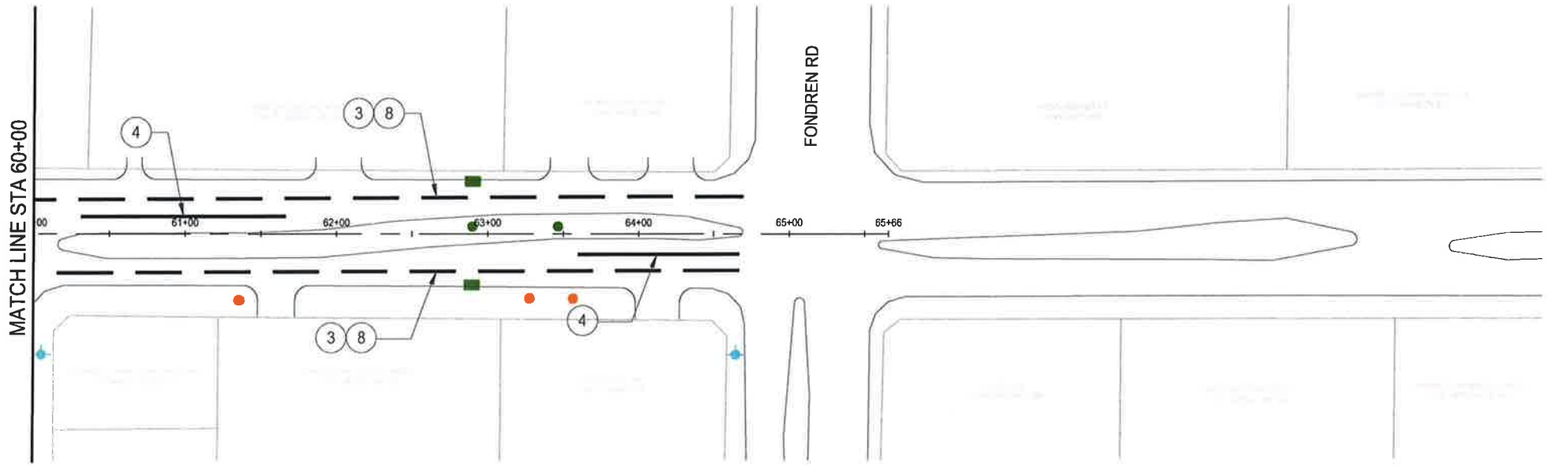
PANEL REPLACEMENT PROJECT
W. AIRPORT BLVD.-PAVEMENT MARKING LAYOUT
STA 40+00 TO STA 60+00
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

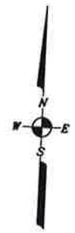
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:	
H: 1" = 100'	
SHEET NO. 35 OF 61	



W. AIRPORT BLVD
SCALE: 1"=100'



LEGEND

1	═══	CROSSWALK - 12" THERMOPLASTIC PAVEMENT MARKER, WHITE
2	▬▬	STOP BAR - 24" THERMOPLASTIC PAVEMENT MARKER, WHITE
3	———	LANE LINE (DASHED)- 4" THERMOPLASTIC PAVEMENT MARKER, WHITE
4	———	LANE LINE (SOLID) - 8" THERMOPLASTIC PAVEMENT MARKER, WHITE
5	□	4" SO. 2-WAY REFLECTORIZED WHITE RAISED PAVEMENT MARKERS (TY I-C)
6	ONLY	REFL PAV MRK TY 1 (W) (WORD) "ONLY"
7	⇧	REFL PAV MRK TY 1 (W) (ARROW)
8		4" SQ 1- WAY REFLECTORIZED WHITE RAISED PVMT MARKERS (TYPE-1) @ 40' C-C

NOTES:

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3. UTILITIES AND PAVEMENT ARE APPROXIMATE AND ARE NOT BASED ON SURVEY DATA.

100 50 0 100

SCALE: 1"=100'

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
12-5-14

PROJ. 12270.3

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STA 60+00 TO STA 65+66
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:	
H: 1" = 100'	
SHEET NO. 36 OF 61	

GENERAL NOTES

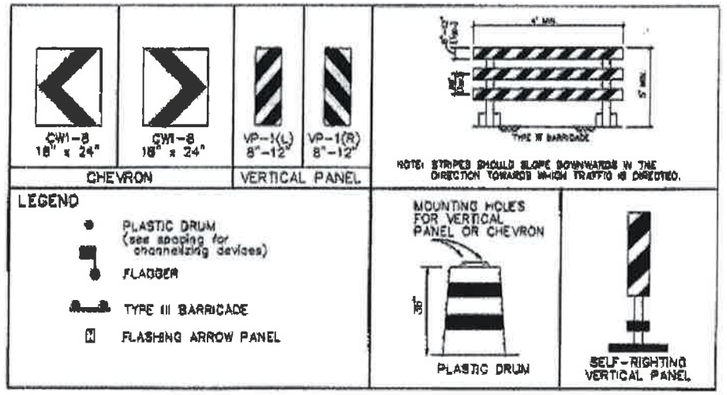
1. The Contractor shall provide and install traffic control devices in conformance with Part VI of Texas Manual on Uniform Traffic Control Devices (TMUTCD) latest edition with revisions during the entire construction period.
2. All signs and traffic control devices shall conform to the latest version of the TMUTCD.
3. No lanes shall be closed during the hours of 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM Monday thru Friday without approval of the City Traffic Engineer.
4. No work shall be performed in residential areas from 7:00 PM to 7:00 AM.
5. Contractor shall maintain approved number of thru lanes of traffic in each direction during construction working hours. Traffic control plans shall include one-way and/or detour plans.
6. Contractor shall maintain traffic lanes and detours according to traffic control plans during working hours.
7. Contractor shall cover open pavement excavations for minor utility work with anchored steel plates during non-working hours, and open lanes for normal traffic flow when feasible.
8. If the Contractor chooses to use a different method of "Traffic Control Plans" during the construction than what is outlined in the contract drawings, the Contractor shall be responsible to prepare and submit an alternate set of traffic control plans to the City of Houston Project Manager for approval ten working days prior to implementation. These plans shall be drawn to scale on reproducible mylars and shall be sealed by a Licensed Engineer in the State of Texas. Traffic Operations Division representative approval is required to accept the proposed changes.
9. Contractor shall secure lane/sidewalk closure permits from Traffic Operations Division (Mobility Permit Section at http://www.gims.houstontx.gov/portalWS/MainPortal.aspx) before implementing the traffic control plan. The application must be submitted at least ten business days prior to the implementation of the traffic control plan and/or beginning construction work. The contractor shall provide traffic control plans, construction sequencing, and schedule with the application.
10. Contractor shall have approved traffic control plan and permit at the job site for inspection at all times.
11. During pavement surface restoration projects; the Contractor shall not open closed lanes until the pavement surface has cured enough to allow vehicular traffic according to City of Houston Standard Specifications.
12. The Contractor is responsible for scheduling and coordinating all construction activities with stake holders in the vicinity including emergency response agencies such as Houston Police Department, Houston Fire Department, and Metropolitan Transit Authority.
13. Contractor shall be responsible for issuing all work directives to all sub-contractors, utility companies, and all other entities performing construction work associated with the project.
14. Nothing in these notes or plans shall relieve the Contractor of the responsibility for job site conditions during the course of construction of the project; including safety of all modes of transportation, persons, and property, and that this requirement shall apply continuously and not be limited to working hours.
15. The Traffic Operation Division (Mobility Permits Group) per the direction of the City Traffic Engineer have the right to demand the installation of additional traffic control devices or modifications to these plans and notes, as deemed necessary to promote the safe and orderly flow of traffic and pedestrians through the construction work zone. The Contractor shall comply with these additional requests or modifications with due diligence.
16. All existing traffic control signs and pavement markings shall be maintained in visible locations during construction unless prior written approval is obtained from City of Houston Project Manager. The Contractor shall restore or replace (at the discretion of the City Traffic Engineer) any pavement marking or signing damaged during construction operations, including Raised Pavement Markers (RPMs) and chip seal markers.
17. When entering or leaving roadways carrying public traffic, the Contractor's equipment, whether empty or loaded shall in all cases yield to public traffic with assistance by Contractor provided certified flagger/peace officer.
18. Access to driveways adjacent to the construction work zone shall be maintained at all times as much as possible. Additional cones delineators may be required to delineate the driveway access route through the construction work zone. A minimum of one travel lane shall be maintained across the driveways, unless prior written approval is obtained from City of Houston Project Manager.
19. Spillage resulting from hauling operations along or across any public traveled way shall be removed immediately by the Contractor.
20. The Contractor shall submit an application for temporary parking restrictions if there are parking meters located at the proposed lane closures from Parking Management Division (832-393-8690) at least ten business days before implementation of lane closures. In addition, temporary no parking signs shall be posted 24 hours prior to commencement of work.
21. Additional off duty police officers/flaggers may be requested to direct traffic when lanes are blocked at the discretion of the City Project Manager even if they are not specifically identified on the project plans.
22. The Contractor shall replace within 72 hours, all traffic signal loop detectors damaged during construction.
23. In general, a solar powered flashing arrow board shall be required on all major thoroughfare lane closures. Exceptions to flashing arrow boards and/or implementation on residential lane closures shall be approved by the City Traffic Engineer.
24. Approved traffic control plan shall be in place before starting any excavation.

SPACING FOR CHANNELIZING DEVICES

A. Plastic drums on merging taper @ 80' c - c with chevron sign @ 80' c - c and warning lights for overnight closure.
B. Plastic drums on downstream taper @ 80' c - c (return taper and barricade are optional and divided roadway section)
C. Plastic drums on radii @ 80' c-c.
D. Plastic drums on tangent @ 35' c - c with vertical panel at 70' c - c and approved warning light @ 70' c - c (for overnight closure).
E. Plastic drums in front of construction zone @ 20' c - c with vertical panel at 40' c - c and approved warning light @ 40' c - c (for overnight closure).
F. Concrete Traffic Barrier (CTB) or Low Profile Concrete Traffic Barrier (LPCTB) with approved reflectors @ 10' c - c if pavement drop is greater than 1 foot.
G. Plastic drums w/Guard rail mounted.
H. Self- Righting vertical panel spacing.
   - 4 lanes to 3 lanes undivided roadway section @ 20' c - c.
   - 4 lanes divided roadway to one side two way roadway @ 30' c - c.
   - Left lane and right lane storage bays @ 15' c - c.

I. Spacing shown on traffic control shall supersede the above spacing.
J. Spacing may be adjusted to provide driveways, intersections and /or median openings.

CHANNELIZATION AND BARRICADES



TYPICAL SIGN SPACING, TAPER LENGTHS, AND SUGGESTED SPACING OF CHANNELIZATION DEVICES						
		Min. Desirable Taper Length "L"			Suggested Maximum Spacing Of Device	
Posted Speed (mph)	Sign Spacing "X"	10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30	120'	150'	165'	180'	30'	60' - 75'
35	160'	205'	225'	245'	35'	70' - 90'
40	240'	265'	295'	320'	40'	80' - 100'
45	320'	450'	495'	540'	45'	90' - 110'
50	400'	500'	550'	600'	50'	100' - 125'
55	500'	550'	605'	660'	55'	110' - 140'

Length for Buffers	
Posted Speed (mph)	Length in Feet (B)
20	40
25	60
30	90
35	120
40	155
45	195
50	240
55	295
60	350
65	410
70	475

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TCP NOTES
CHANNELIZING DEVICES
AND BARRICADES
(NOT TO SCALE)

APPROVED BY: CITY ENGINEER

APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: JUL-01-2012 DWG NO: 01512-01

STATE OF TEXAS
DAVID N. BRITTON
83880
LICENSED
PROFESSIONAL ENGINEER
David N. Britton
12/9/14

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Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
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Houston, Texas 77057 www.mectx.com

CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
TCP STANDARD DETAILS

HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

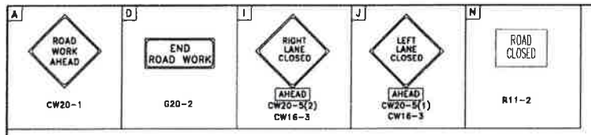
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. | FOR CITY OF HOUSTON USE ONLY

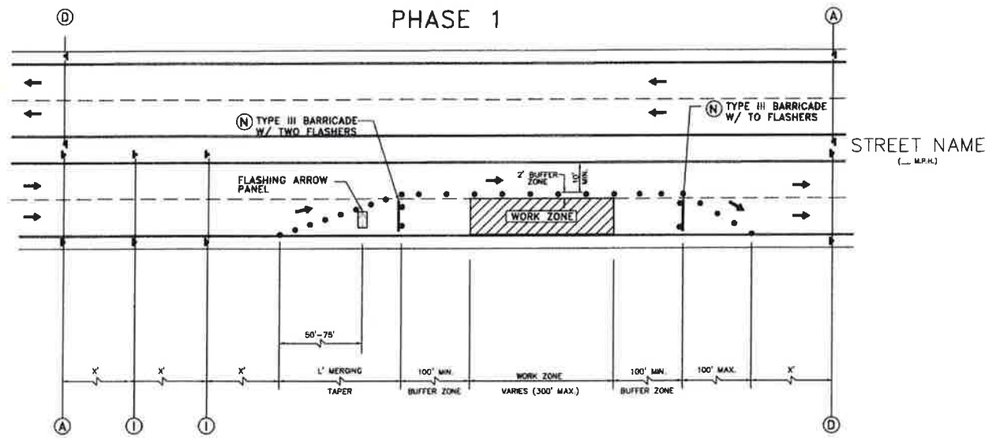
DRAWING SCALE: N.T.S.

SHEET NO. 37 OF 61

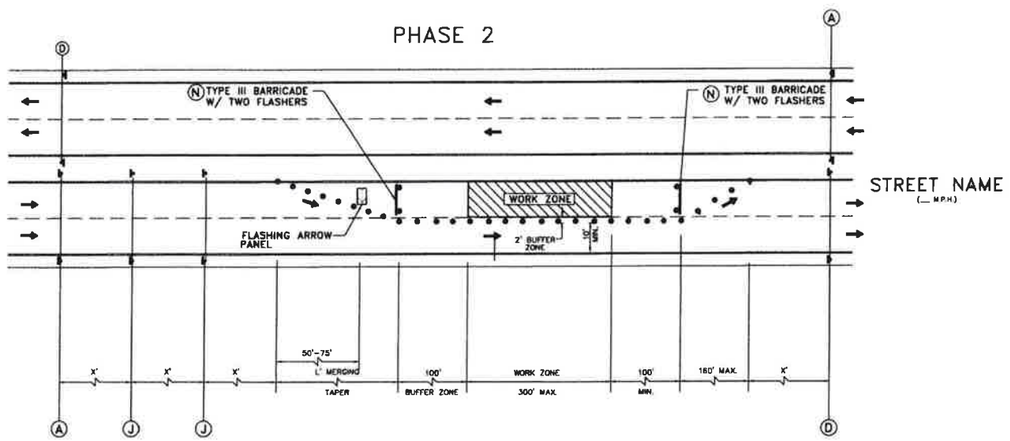
PROJ. 12270-3



PHASE 1



PHASE 2



LEGEND

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- TRAFFIC FLOW
- CONSTRUCTION AREA

NOTE:

1. RETURN TAPERS AND DOWNSTREAM BARRICADES ARE OPTIONAL ON A DIVIDED ROADWAY SECTION.
2. DOUBLE SIGNS SHALL BE USED ONLY ON ROADWAYS WITH MEDIANS.
3. FOR DIMENSIONS REFER TO SHEET 01512-01.

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TCP ONE LANE CLOSURE
PHASE 1 & 2
(NOT TO SCALE)

APPROVED BY: CITY ENGINEER — APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: JUL-01-2012 — DWG NO: 01512-04

STATE OF TEXAS
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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT
TRAFFIC CONTROL DETAIL
TYPICAL LEFT LANE CLOSURE OF A MULTILANE ONE WAY STREET
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

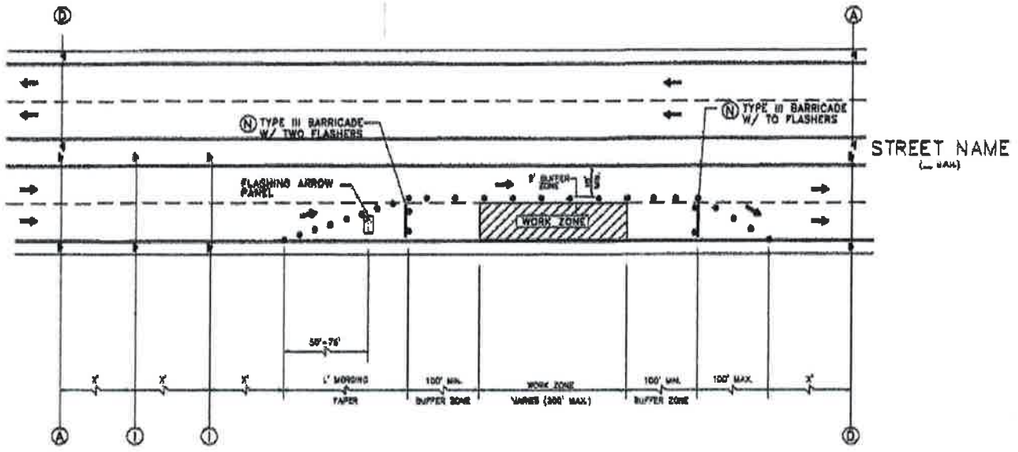
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: N.T.S.	
SHEET NO. 38 OF 61	

PROJ. 122703

A	D	I	J	H
ROAD WORK AHEAD	END ROAD WORK	RIGHT LANE CLOSED AHEAD	LEFT LANE CLOSED AHEAD	ROAD CLOSED
CW20-1	G20-2	CW20-5(2) CW16-3	CW20-5(1) CW16-3	R11-2



LEGEND

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- TRAFFIC FLOW
- CONSTRUCTION AREA

NOTE:

1. RETURN TAPERS AND DOWNSTREAM BARRICADES ARE OPTIONAL ON A DIVIDED ROADWAY SECTION.
2. DOUBLE SIGNS SHALL BE USED ONLY ON ROADWAYS WITH MEDIANS.
3. FOR DIMENSIONS REFER TO SHEET 01612-01.

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TCP ONE LANE CLOSURE

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2012	DWG NO: 01612-04

STATE OF TEXAS
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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
TRAFFIC CONTROL DETAIL
TYPICAL RIGHT LANE CLOSURE OF A MULTILANE ONE WAY STREET
HOUSTON, HARRIS COUNTY, TEXAS

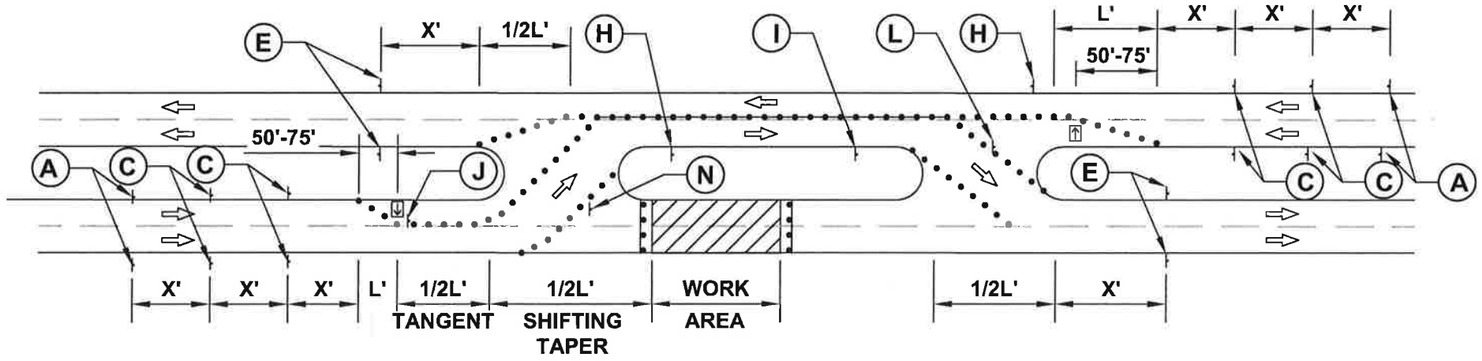
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: N.T.S.	
SHEET NO. 39 OF 61	

PROJ 12270-3



TYPICAL CLOSURE OF ONE ROADWAY OF A 4-LANE DIVIDED STREET

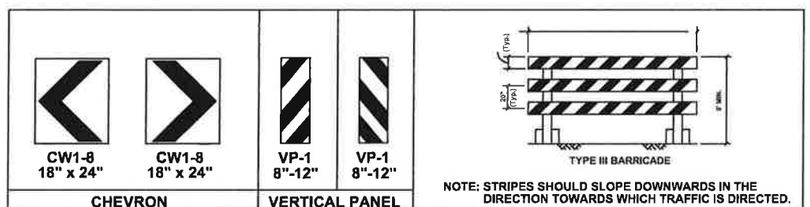
NTS

S. WAYSIDE BLVD - 35 MPH
W. AIRPORT BLVD. - 35 MPH

TYPICAL SIGN SPACING, TAPER LENGTHS, AND SUGGESTED SPACING OF CHANNELIZATION DEVICES

Posted Speed (mph)	Sign Spacing "X"	Min. Desirable Taper Length "L" 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing Of Device On a Taper	On a Tangent
~~30~~	~~120'~~	~~150'~~	~~165'~~	~~180'~~	~~30'~~	~~60' - 75'~~
35	160'	205'	225'	245'	35'	70' - 90'
~~40~~	~~240'~~	~~265'~~	~~295'~~	~~320'~~	~~40'~~	~~80' - 100'~~
~~45~~	~~320'~~	~~450'~~	~~495'~~	~~540'~~	~~45'~~	~~90' - 110'~~
~~50~~	~~400'~~	~~500'~~	~~550'~~	~~600'~~	~~50'~~	~~100' - 125'~~
~~55~~	~~500'~~	~~550'~~	~~605'~~	~~660'~~	~~55'~~	~~110' - 140'~~

Length for Buffers	
Posted Speed (mph)	Length in Feet (B)
~~20~~	~~40~~
~~25~~	~~60~~
~~30~~	~~90~~
35	120
~~40~~	~~155~~
~~45~~	~~195~~
~~50~~	~~240~~
~~55~~	~~295~~
~~60~~	~~350~~
~~65~~	~~410~~
~~70~~	~~475~~



SPACING FOR CHANNELIZING DEVICES

A. PLASTIC DRUMS ON MERGING TAPER @ 30' C-C WITH CHEVRON SIGN @ 60' C-C AND TYPE 'C' WARNING LIGHT (FOR OVERNIGHT CLOSURE)

B. PLASTIC DRUMS ON DOWNSTREAM TAPER @ 35' C-C

C. PLASTIC DRUMS ON RADII @ 5' C-C

D. PLASTIC DRUMS ON TANGENT @ 35' C- C WITH VERTICAL PANEL @ 70' C-C AND TYPE 'C' WARNING LIGHT @ 70' C-C (FOR OVERNIGHT CLOSURE)

E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20' C-C WITH VERTICAL PANEL @ 40' C-C AND TYPE 'A' WARNING LIGHT @ 40' C-C (FOR OVERNIGHT CLOSURE)

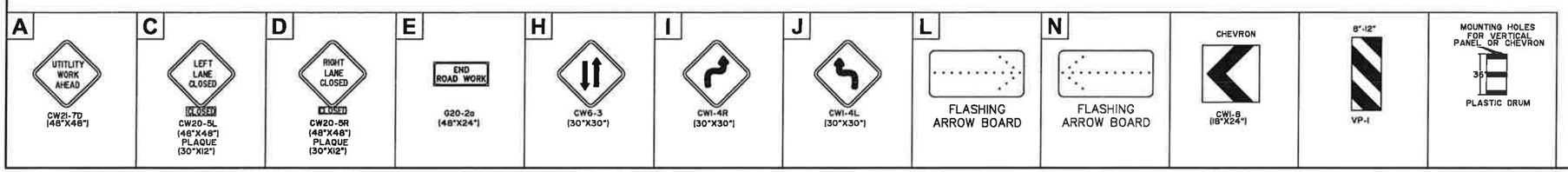
F. CONCRETE TRAFFIC BARRIER (CTB) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) WITH REFLECTORS @ 10' C-C IF PAVEMENT DROP IS MORE THAN TWELVE INCHES (12") OR

G. PLASTIC DRUMS W/GUARD RAIL MOUNTED.

H. 28" TUBULAR MARKERS

1. 4 LANES TO 2 LANES UNDIVIDED ROADWAY SECTIONS @ 20' C-C.
2. 4 LANES DIVIDED ROADWAY TO ONE SIDE TWO WAY ROAD @ 20' C-C.
3. LEFT LANE AND RIGHT LANE STORAGE BAYS @15' C-C.

NOTE: SPACING SHOWN ON TRAFFIC CONTROL PLANS SHALL SUPERSEDE THE ABOVE SPACINGS. SPACING MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND/OR MEDIAN OPENINGS.



STATE OF TEXAS
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12/5/14

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CITY WIDE OVERLAY PROJECT

TCP CLOSURE DETAIL
S. WAYSIDE BLVD &
W. AIRPORT BLVD.

HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

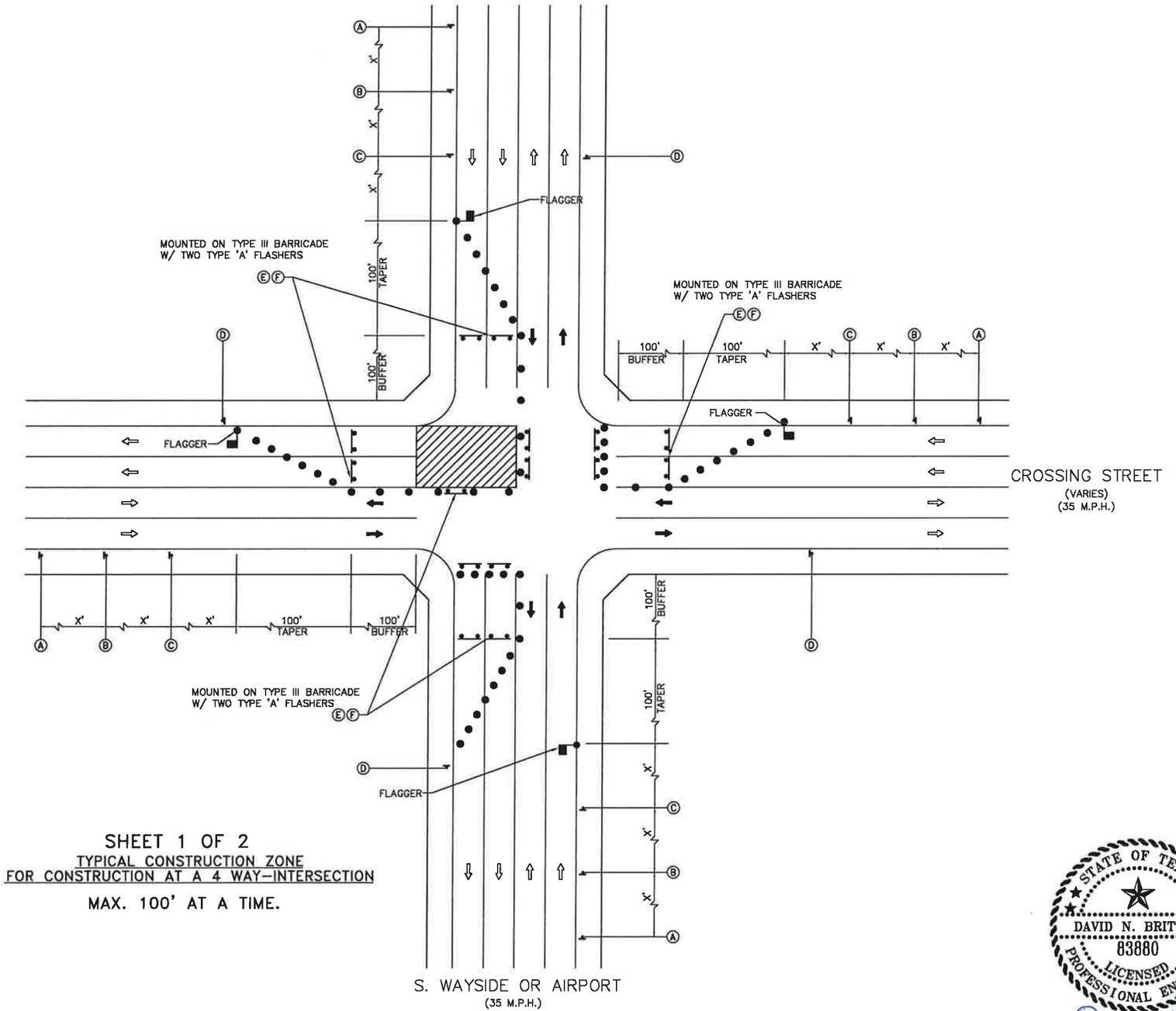
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: NTS	
SHEET NO. 40 OF 61	

PROJ 12270-3

A	B	C	D	E	F
ROAD WORK AHEAD	ONE LANE ROAD AHEAD		END ROAD WORK	DO NOT ENTER	ROAD CLOSED
CW21-1 48" X 48"	CW20-4D 48" X 48"	CW20-7a 36" X 36"	G20-2a 48" X 24"	R5-1 48" X 48"	R11-2 48" X 24"



SHEET 1 OF 2

TYPICAL CONSTRUCTION ZONE
FOR CONSTRUCTION AT A 4 WAY-INTERSECTION

MAX. 100' AT A TIME.

STATE OF TEXAS
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PROJ 12270 3

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Houston, Texas 77057
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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
TRAFFIC CONTROL PLAN

HOUSTON, HARRIS COUNTY, TEXAS

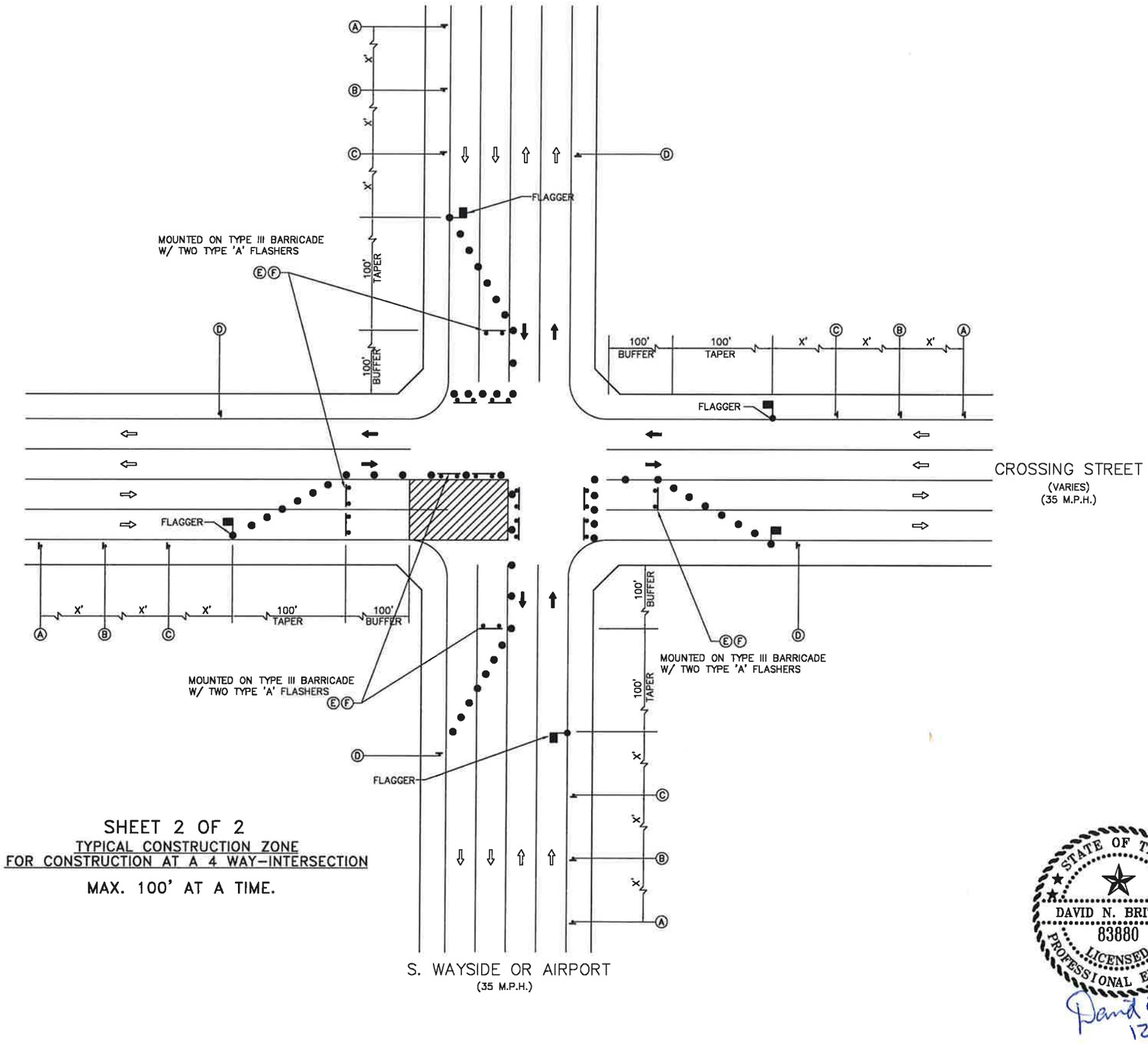
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:	
N.T.S.	
SHEET NO. 41 OF 61	

A	B	C	D	E	F
					
CW20-1 48" X 48"	CW20-4D 48" X 48"	CW20-7a 36" X 36"	G20-2a 48" X 24"	R5-1 48" X 48"	R11-2 48" X 24"



SHEET 2 OF 2

TYPICAL CONSTRUCTION ZONE
FOR CONSTRUCTION AT A 4 WAY-INTERSECTION

MAX. 100' AT A TIME.

STATE OF TEXAS
DAVID N. BRITTON
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12/5/14

PROJ. 12270.3

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Houston, Texas 77057 www.mectx.com

CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
TRAFFIC CONTROL PLAN

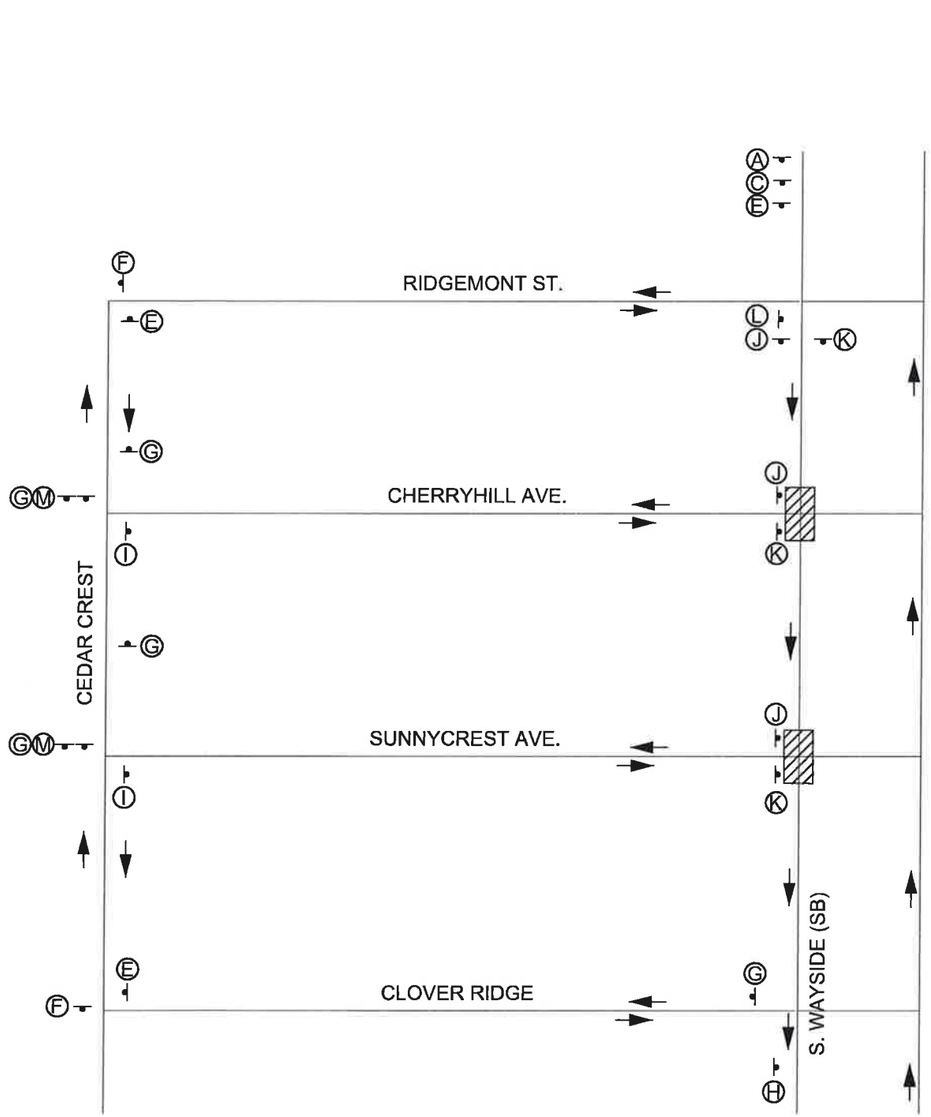
HOUSTON, HARRIS COUNTY, TEXAS

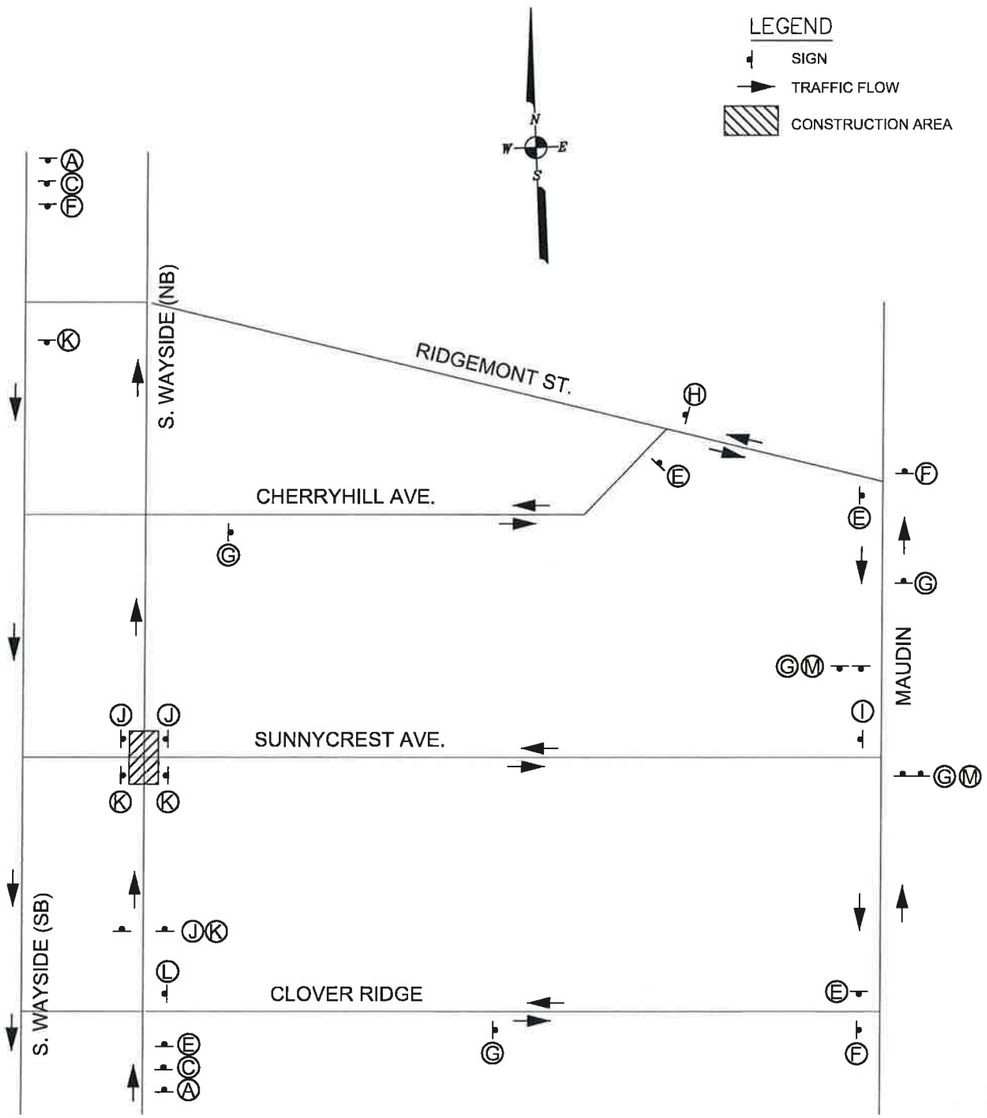
NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

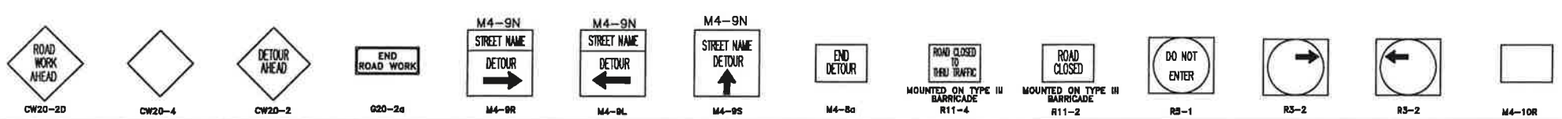
FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: N.T.S.	
SHEET NO. 42 OF 61	





LEGEND

- SIGN
- TRAFFIC FLOW
- CONSTRUCTION AREA



STATE OF TEXAS
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Houston, Texas 77057
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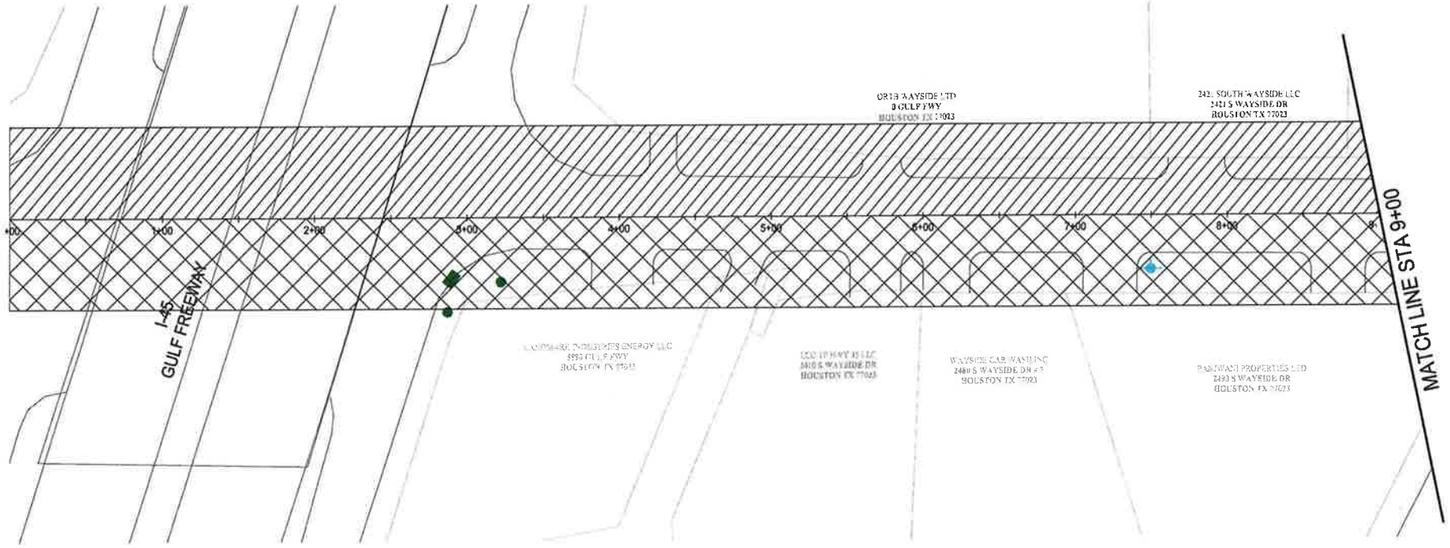
CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT
TRAFFIC CONTROL DETAIL
SUNNYCREST AND CHERRYHILL DIVERSION
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

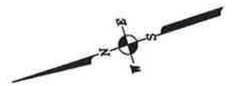
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: NTS	
SHEET NO. 43 OF 61	



S. WAYSIDE BOULEVARD
SCALE: 1"=100'



LEGEND

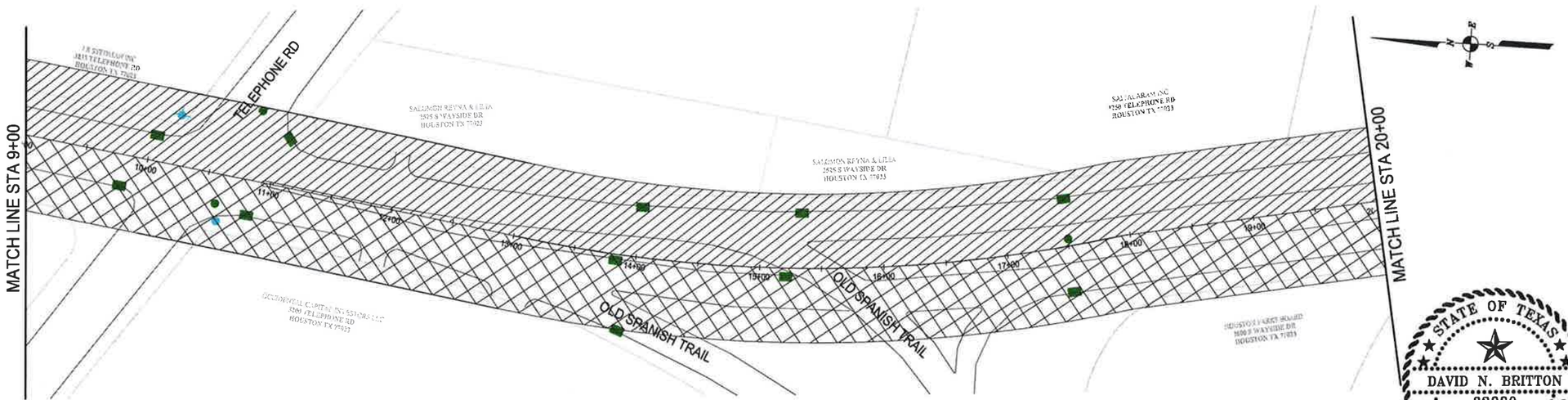
PHASE 1

1. INSTALL TRAFFIC CONTROL SIGNAGE PER TCP.
2. SHIFT SOUTHBOUND TRAFFIC TO NORTHBOUND LANE USING TYPICAL ROADWAY CLOSURE PER TCP BETWEEN TELEPHONE RD. AND DIXIE DR. MAXIMUM WORK AREA LENGTH IS 800 LF PER TRAFFIC CONTROL SETUP.
3. AT LOCATIONS WITHIN ONE MEDIAN OF SIGNALIZED INTERSECTION, SHIFT TRAFFIC USING SINGLE LANE CLOSURES PER TCP ON SOUTHBOUND LANES (WHEELER, GRIGGS, 610 FEEDER RD & LONG DR.
4. CONSTRUCT PANEL REPLACEMENT PANELS PER THE PLANS.

PHASE 2

1. INSTALL TRAFFIC CONTROL SIGNAGE PER TCP.
2. SHIFT NORTHBOUND TRAFFIC TO SOUTHBOUND LANE USING TYPICAL ROADWAY CLOSURE PER TCP BETWEEN TELEPHONE RD. AND DIXIE DR. MAXIMUM WORK AREA LENGTH IS 800 LF PER TRAFFIC CONTROL SETUP.
3. AT LOCATIONS WITHIN ONE MEDIAN OF SIGNALIZED INTERSECTION, SHIFT TRAFFIC USING SINGLE LANE CLOSURES PER TCP ON NORTHBOUND LANES (WHEELER, GRIGGS, 610 FEEDER RD & LONG DR.
4. CONSTRUCT PANEL REPLACEMENT PANELS PER THE PLANS.

TRAFFIC SIGNAL



S. WAYSIDE BOULEVARD
SCALE: 1"=100'

100' 50' 0 100'
SCALE: 1"=100'

McDONOUGH
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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT
TCP PHASING PLAN
S. WAYSIDE BLVD.
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE:
H: 1" = 100'

SHEET NO. 44 OF 61

STATE OF TEXAS
DAVID N. BRITTON
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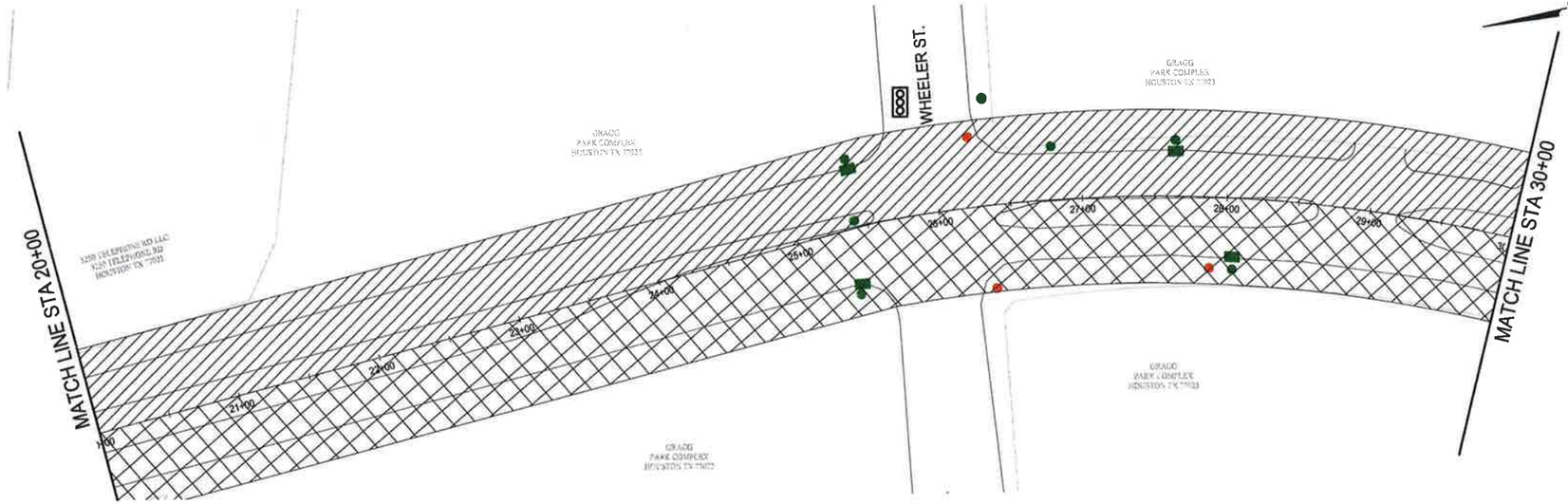
PROFESSIONAL ENGINEER
David N. Britton
12/5/18

PROJ. 12270.3



S. WAYSIDE BOULEVARD

SCALE: 1"=100'

LEGEND

PHASE 1

1. INSTALL TRAFFIC CONTROL SIGNAGE PER TCP.
2. SHIFT SOUTHBOUND TRAFFIC TO NORTHBOUND LANE USING TYPICAL ROADWAY CLOSURE PER TCP BETWEEN TELEPHONE RD. AND DIXIE DR. MAXIMUM WORK AREA LENGTH IS 800 LF PER TRAFFIC CONTROL SETUP.
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4. CONSTRUCT PANEL REPLACEMENT PANELS PER THE PLANS.

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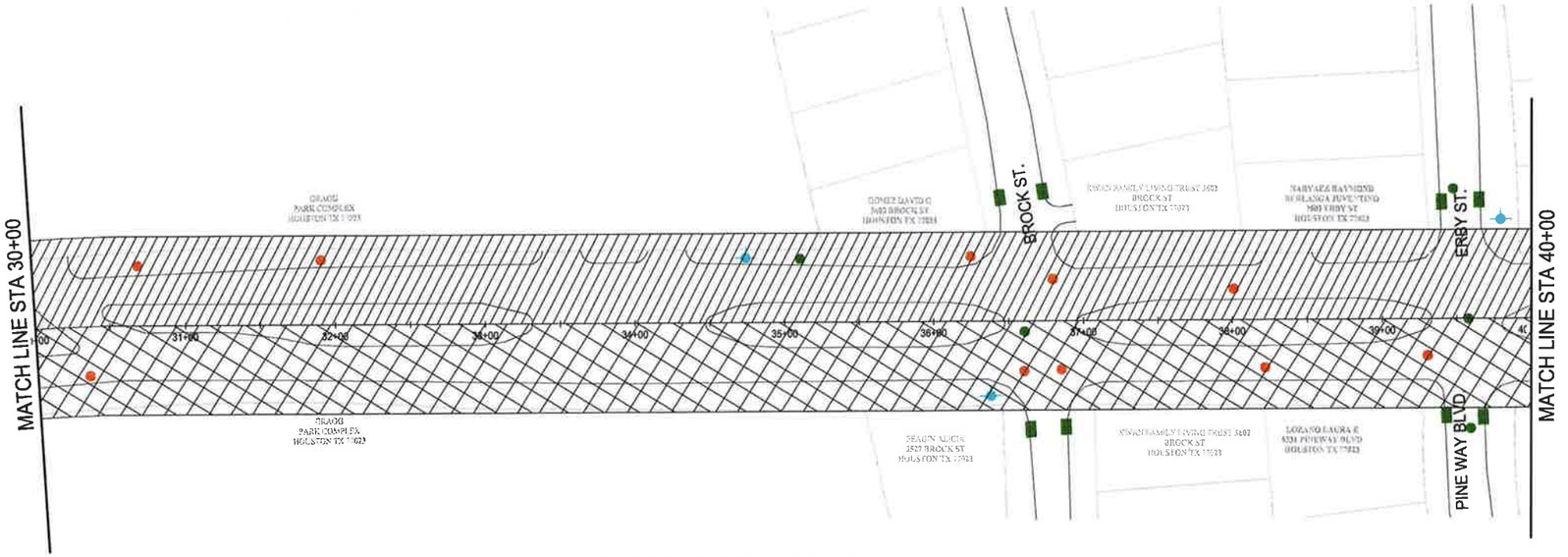
TRAFFIC SIGNAL



S. WAYSIDE BOULEVARD

SCALE: 1"=100'

100' 50' 0 100'

SCALE: 1"=100'

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Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
5625 Schumacher Lane
Houston, Texas 77057
(713) 975-9990
www.mcctx.com

CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT

TCP PHASING PLAN

S. WAYSIDE BLVD.

HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

STATE OF TEXAS
DAVID N. BRITTON
83880
LICENSED
PROFESSIONAL ENGINEER
David N. Britton
12/5/14

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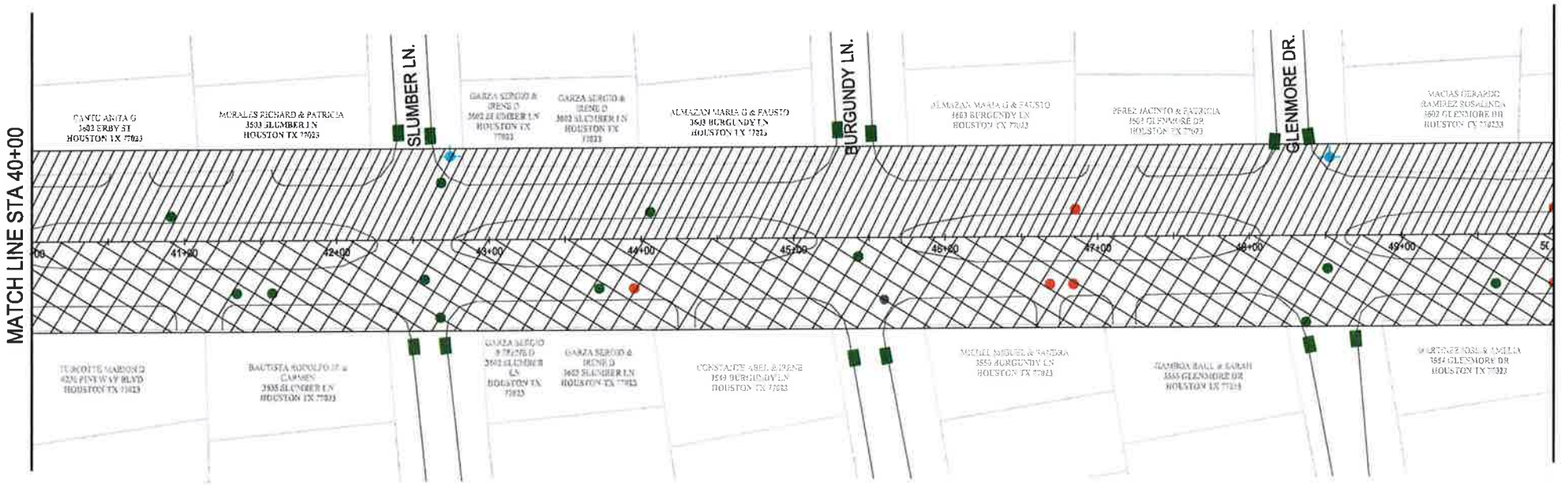
SHEET NO. 45 OF 61	

PROJ. 12270 3



S. WAYSIDE BOULEVARD

SCALE: 1"=100'



S. WAYSIDE BOULEVARD

SCALE: 1"=100'

LEGEND

PHASE 1

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TRAFFIC SIGNAL

100' 50' 0 100'

SCALE: 1"=100'

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STREET & BRIDGE	

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SHEET NO. 46 OF 61

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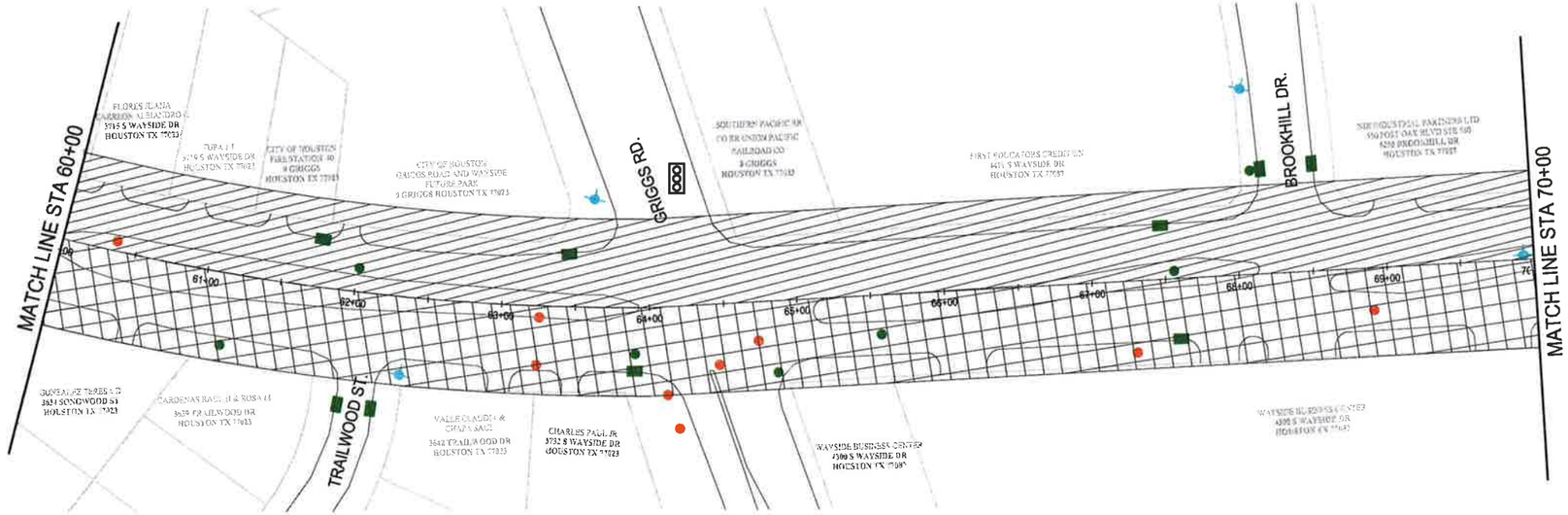
David N. Britton
12/5/14

PROJ. 12270.3



S. WAYSIDE BOULEVARD

SCALE: 1"=100'

LEGEND

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TRAFFIC SIGNAL



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100' 50' 0 100'

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STORM	FACILITIES
STREET & BRIDGE	

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SHEET NO. 47 OF 61

STATE OF TEXAS
DAVID N. BRITTON
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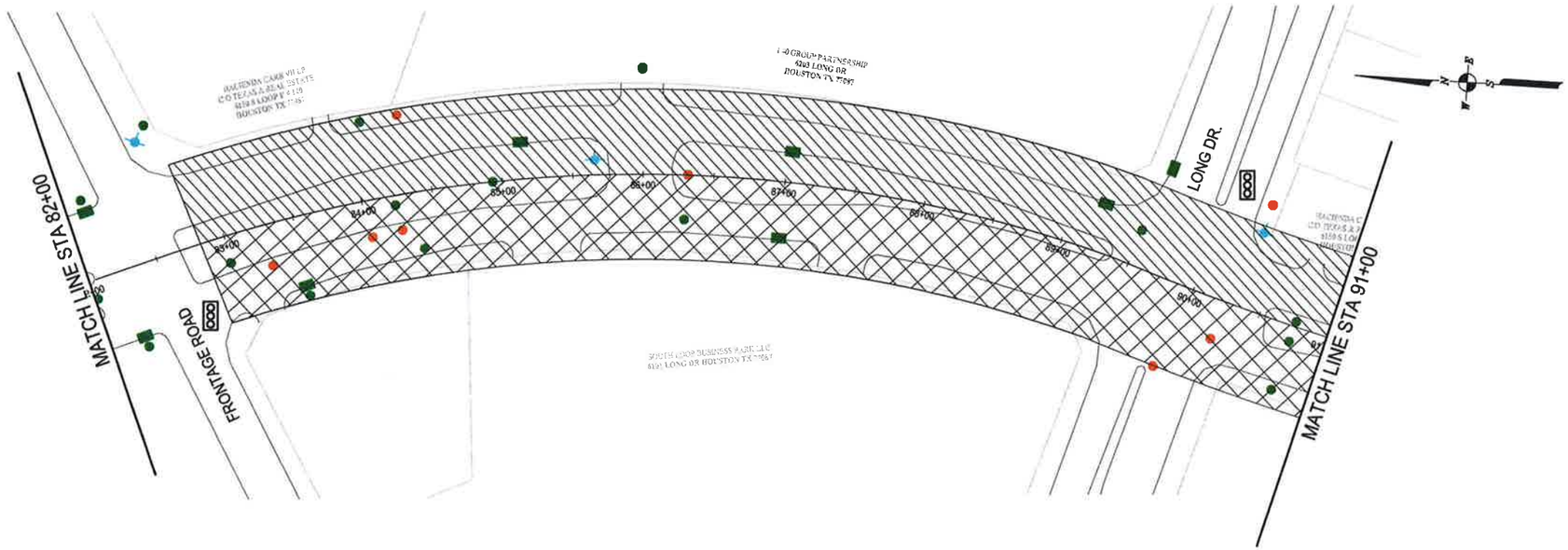
David N. Britton
12/5/14

PROJ. 12270.3



S. WAYSIDE BOULEVARD
SCALE: 1"=100'

LEGEND

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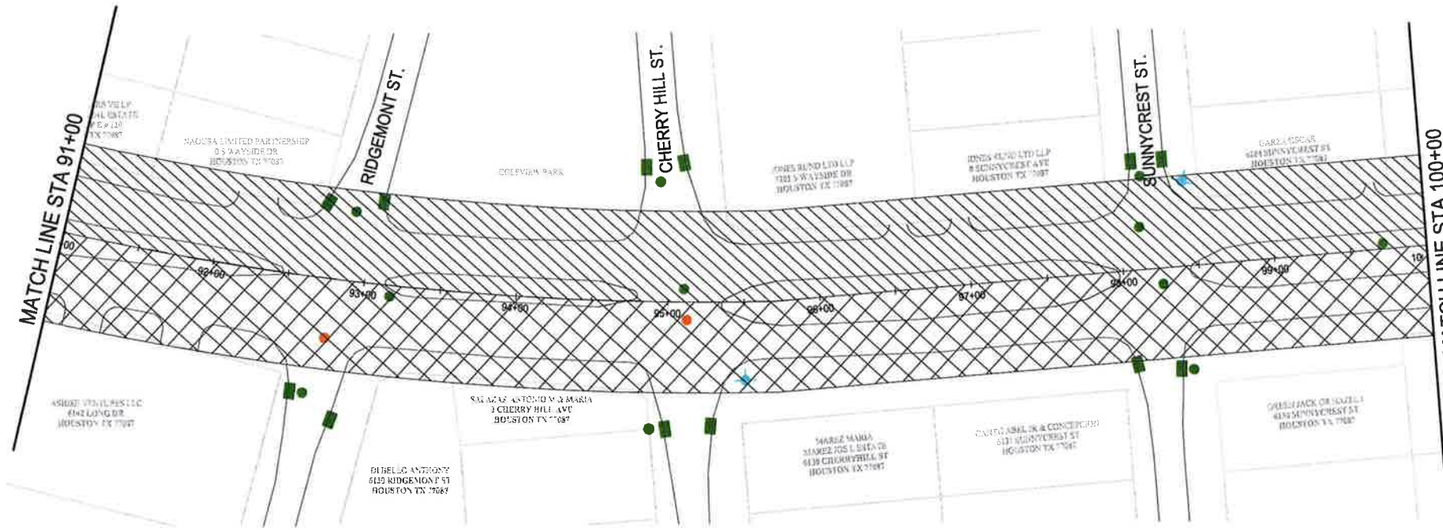

S. WAYSIDE BOULEVARD
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100' 50' 0 100'
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CITY WIDE OVERLAY PROJECT
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S. WAYSIDE BLVD.
HOUSTON, HARRIS COUNTY, TEXAS

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	
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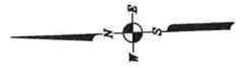
DRAWING SCALE: H: 1" = 100'	
SHEET NO. 48 OF 61	



S. WAYSIDE BOULEVARD

SCALE: 1"=100'



LEGEND

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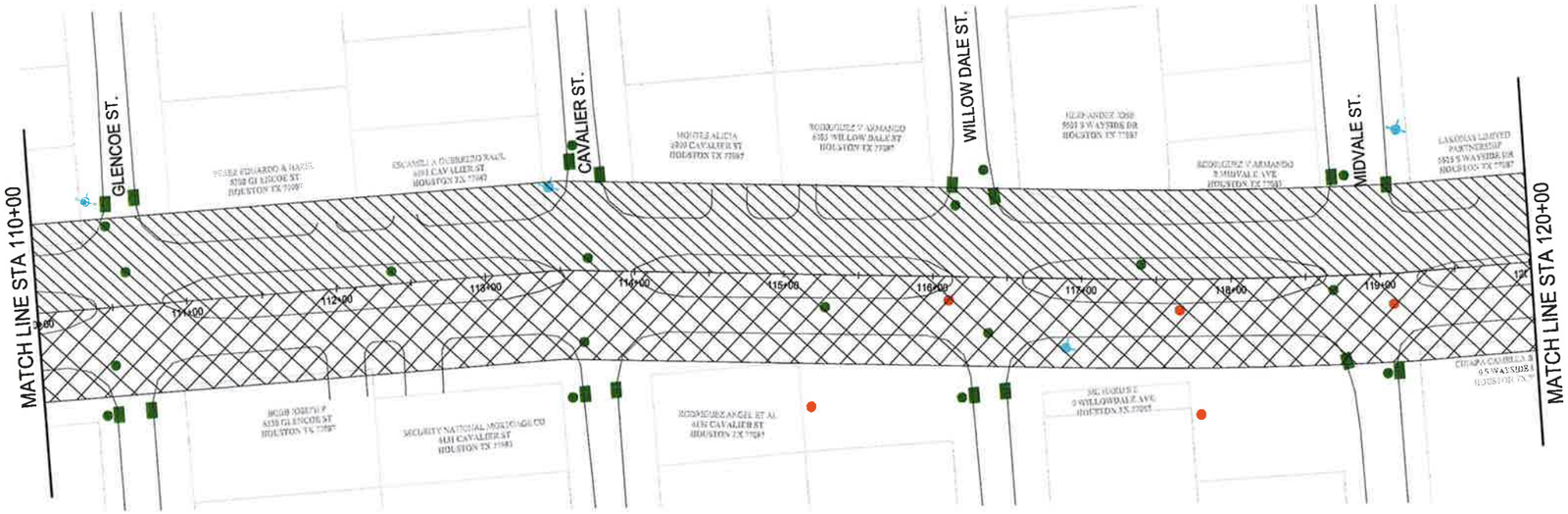
TRAFFIC SIGNAL



S. WAYSIDE BOULEVARD

SCALE: 1"=100'



100' 50' 0 100'

SCALE: 1"=100'

STATE OF TEXAS
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12/5/14

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

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WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

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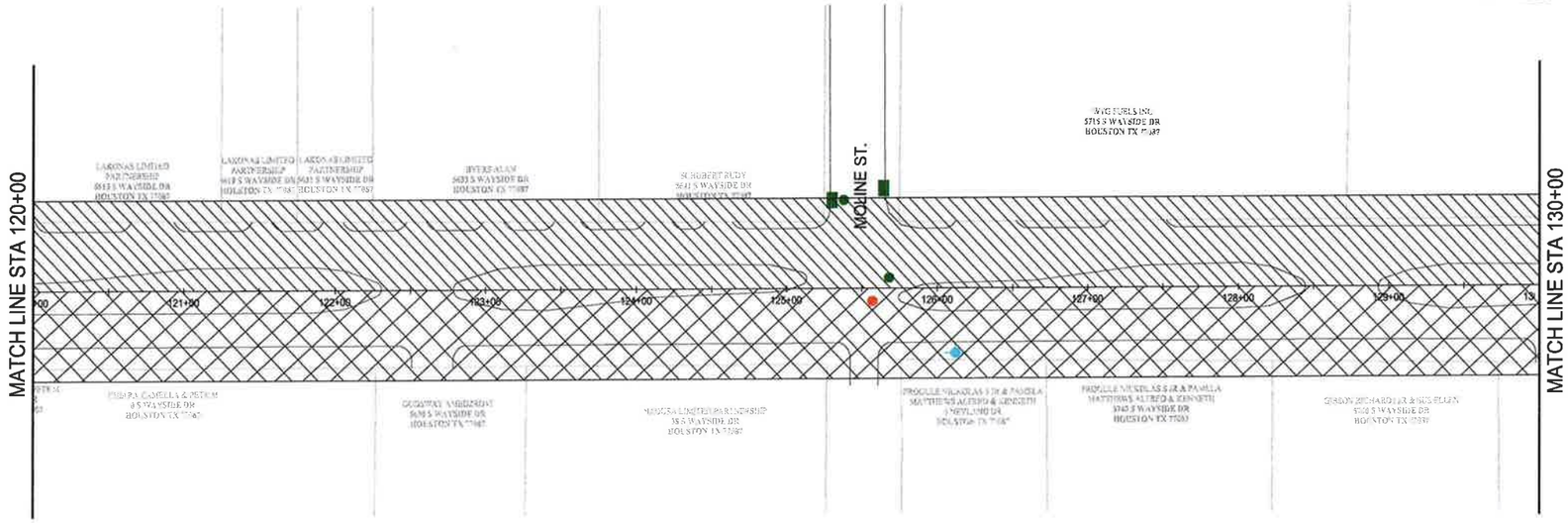
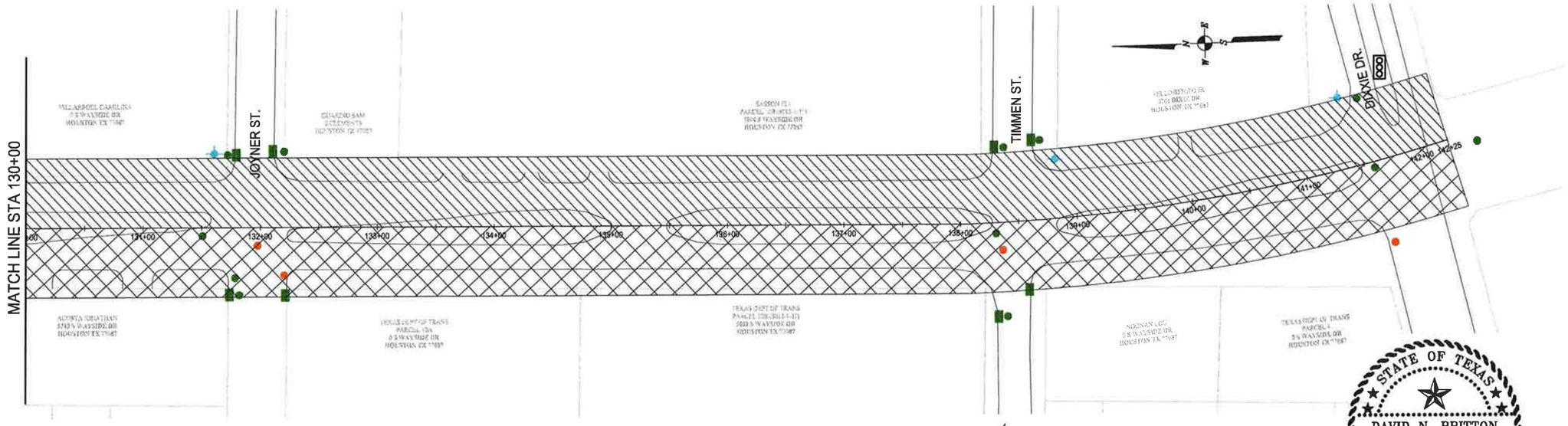
H: 1" = 100'	
SHEET NO. 49 OF 61	



S. WAYSIDE BOULEVARD
SCALE: 1"=100'



S. WAYSIDE BOULEVARD
SCALE: 1"=100'

LEGEND

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TRAFFIC SIGNAL

100' 50' 0 100'
SCALE: 1"=100'

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CITY WIDE OVERLAY PROJECT
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TCP PHASING PLAN
S. WAYSIDE BLVD.
HOUSTON, HARRIS COUNTY, TEXAS

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

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STORM	FACILITIES
STREET & BRIDGE	

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H: 1" = 100'

SHEET NO. 50 OF 61

STATE OF TEXAS
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12/5/19

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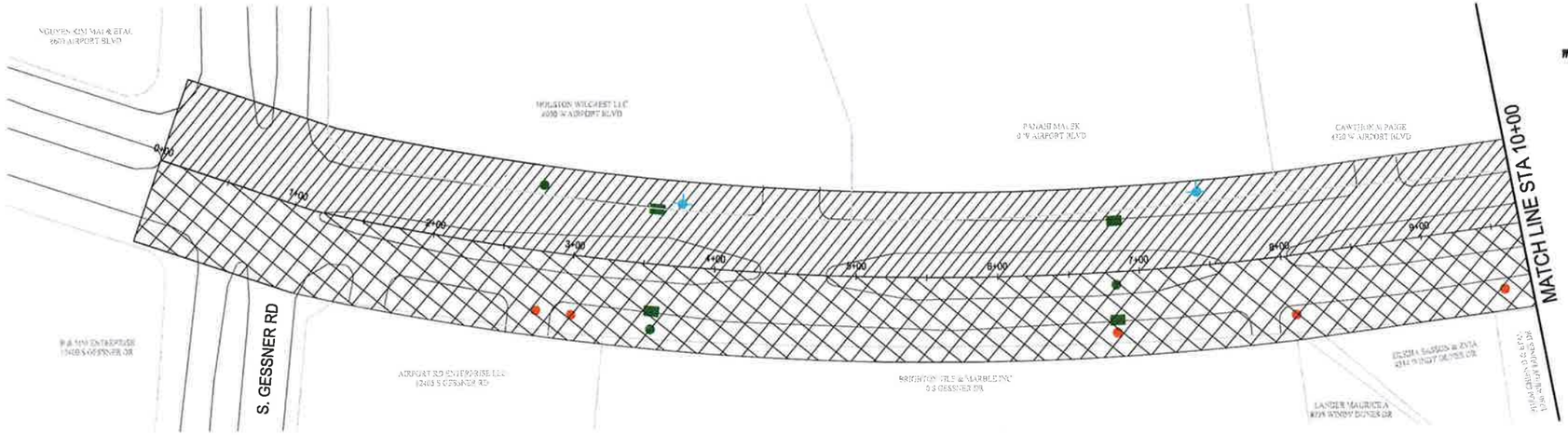
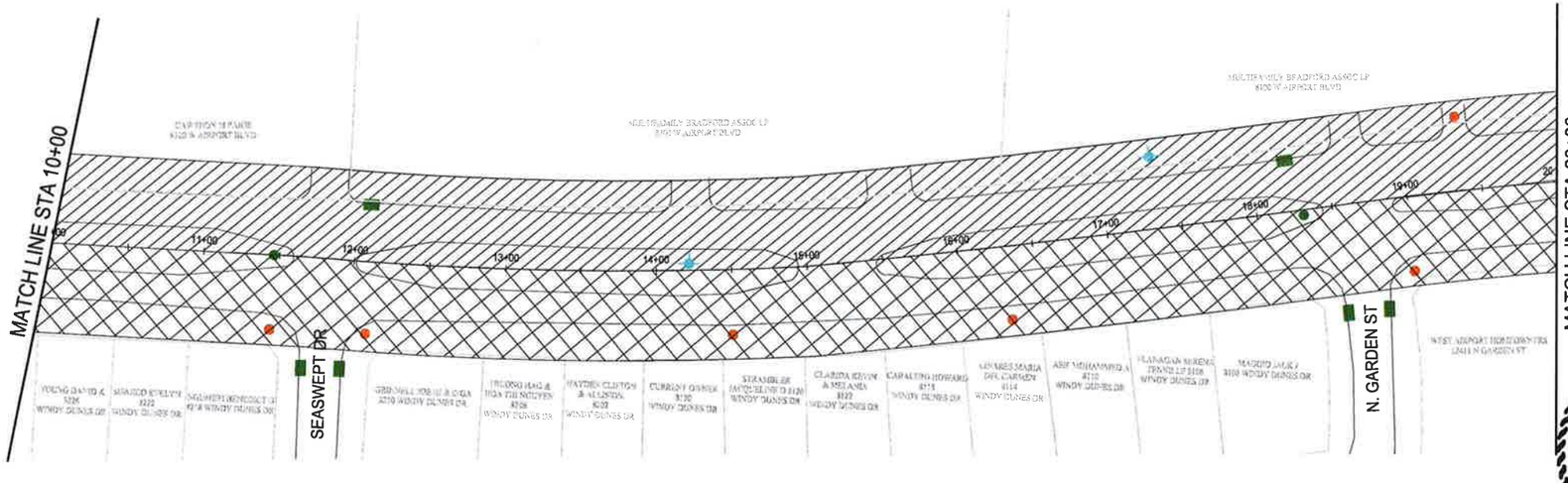


W. AIRPORT BLVD
SCALE: 1"=100'



W. AIRPORT BLVD
SCALE: 1"=100'

LEGEND

PHASE 1

1. INSTALL TRAFFIC CONTROL SIGNAGE PER TCP.
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TRAFFIC SIGNAL

100' 50' 0 100'
SCALE: 1"=100'

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
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STORM	FACILITIES
STREET & BRIDGE	

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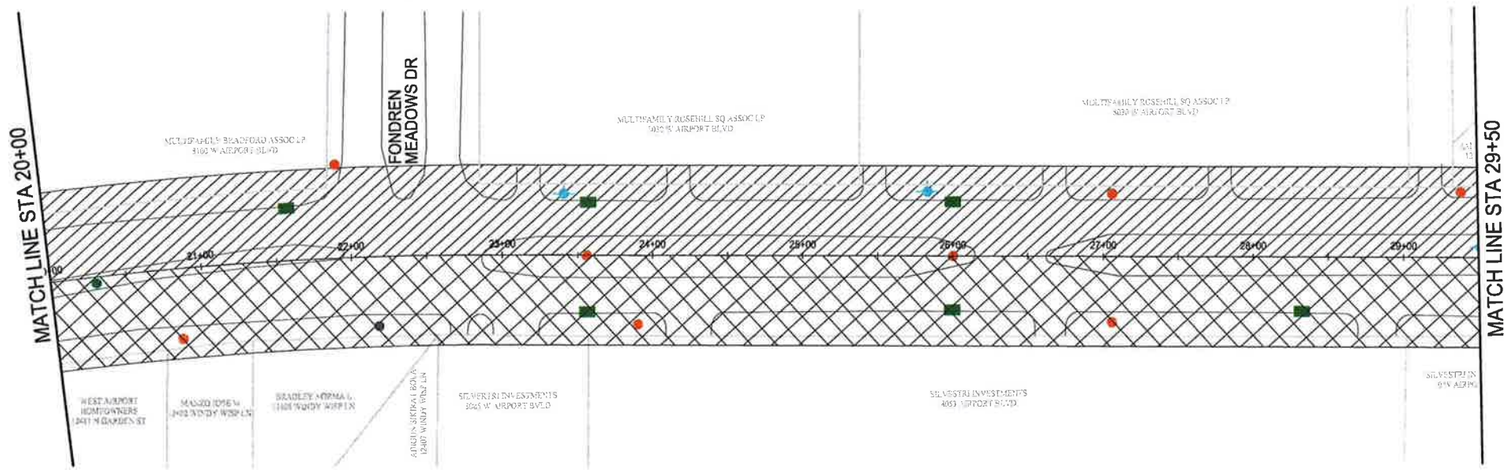
SHEET NO. 51 OF 61	



W. AIRPORT BLVD
SCALE: 1"=100'



LEGEND

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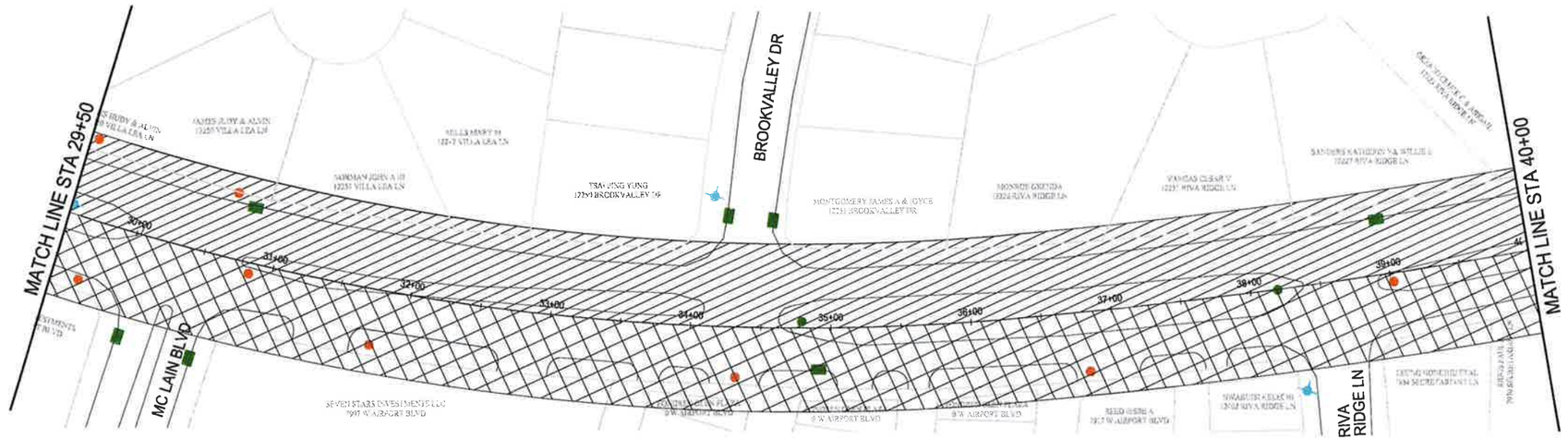

W. AIRPORT BLVD
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100' 50' 0 100'

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STREET & BRIDGE	

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David N. Britton
12/5/14

PROJ. 12270.3



W. AIRPORT BLVD
SCALE: 1"=100'



LEGEND

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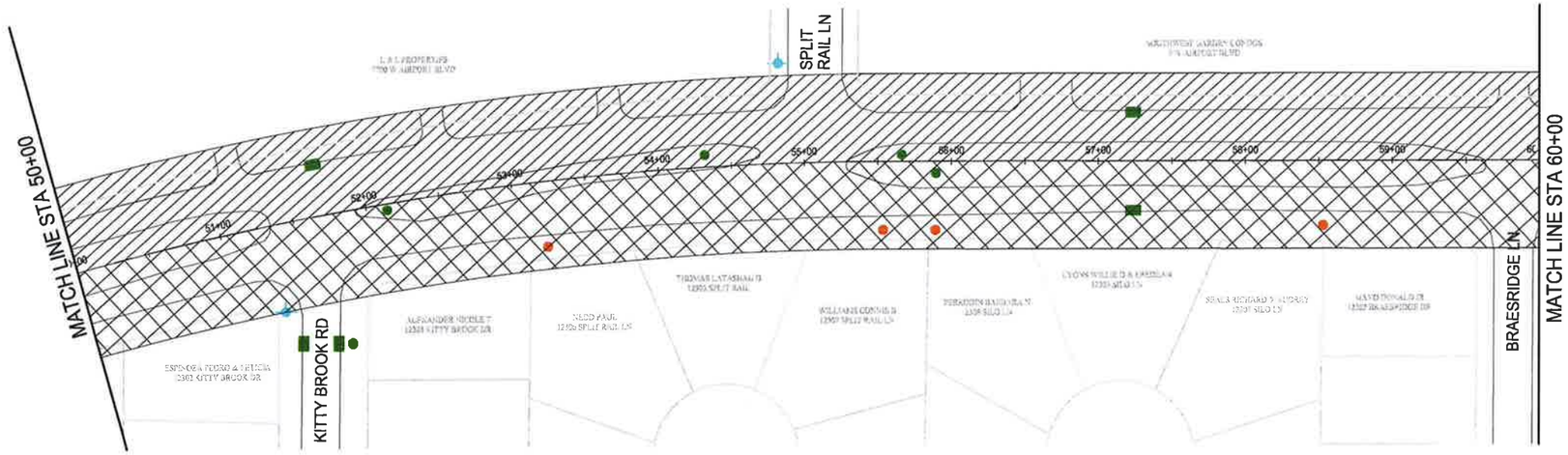

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SCALE: 1"=100'



100' 50' 0 100'
SCALE: 1"=100'

McDONOUGH
Civil Engineers ▼ Project Managers
TBPE Registration No. F-000340
5625 Schumacher Lane
Houston, Texas 77057
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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT
TCP PHASING PLAN
W. AIRPORT BLVD.
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.

FOR CITY OF HOUSTON USE ONLY

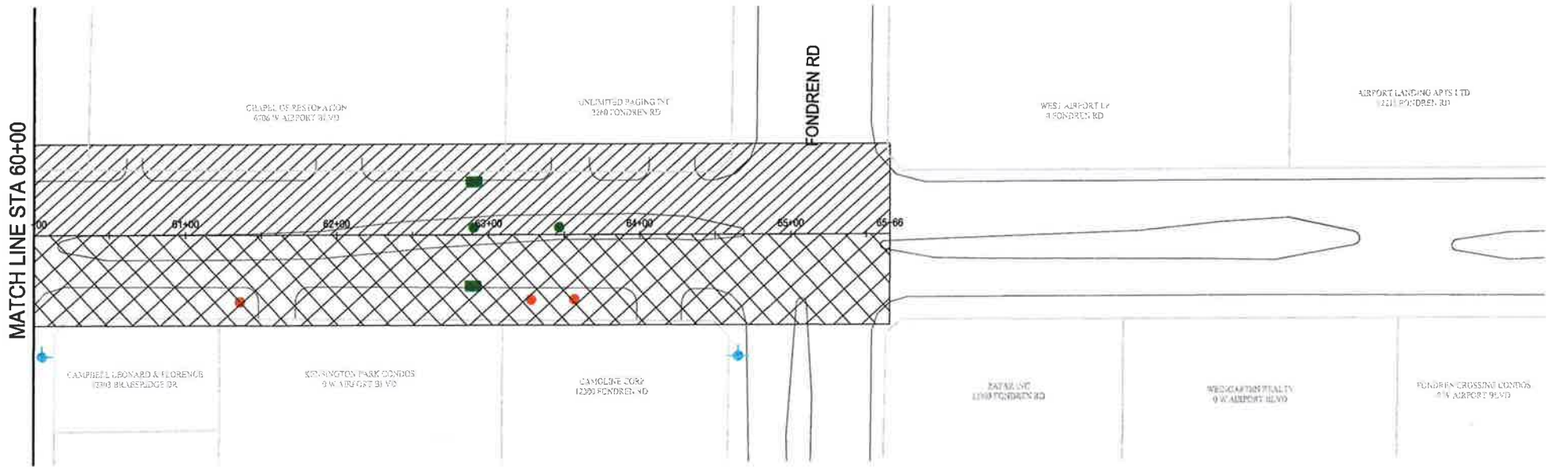
DRAWING SCALE:
H: 1" = 100'

SHEET NO. 53 OF 61



David N. Britton 12/5/14

PROJ. 12270.3



W. AIRPORT BLVD

SCALE: 1"=100'



LEGEND

PHASE 1

1. INSTALL TRAFFIC CONTROL SIGNAGE PER TCP.
2. SHIFT EASTBOUND TRAFFIC TO WESTBOUND LANE USING TYPICAL ROADWAY CLOSURE PER TCP BETWEEN S. GESSNER AND FONDREN RD. MAXIMUM WORK AREA LENGTH IS 800 LF PER TRAFFIC CONTROL SETUP.
3. AT LOCATIONS WITHIN ONE MEDIAN OF SIGNALIZED INTERSECTION, SHIFT TRAFFIC USING SINGLE LANE CLOSURES PER TCP ON EASTBOUND LANES.
4. CONSTRUCT PANEL REPLACEMENT PANELS PER THE PLANS.

PHASE 2

1. INSTALL TRAFFIC CONTROL SIGNAGE PER TCP.
2. SHIFT WESTBOUND TRAFFIC TO EASTBOUND LANE USING TYPICAL ROADWAY CLOSURE PER TCP BETWEEN FONDREN RD. AND S. GESSNER. MAXIMUM WORK AREA LENGTH IS 800 LF PER TRAFFIC CONTROL SETUP.
3. AT LOCATIONS WITHIN ONE MEDIAN OF SIGNALIZED INTERSECTION, SHIFT TRAFFIC USING SINGLE LANE CLOSURES PER TCP ON WESTBOUND LANES.
4. CONSTRUCT PANEL REPLACEMENT PANELS PER THE PLANS.

TRAFFIC SIGNAL

100' 50' 0 100'

SCALE: 1"=100'

STATE OF TEXAS
DAVID N. BRITTON
83880
LICENSED
PROFESSIONAL ENGINEER

David N. Britton
12/5/14

PROJ. 12270 3

McDONOUGH
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CITY WIDE OVERLAY PROJECT
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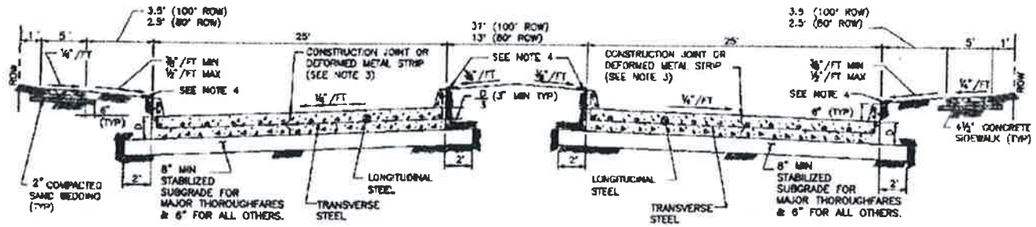
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE:	
H: 1" = 100'	
SHEET NO. 54 OF 61	



TYPICAL DOUBLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS

NOTES:

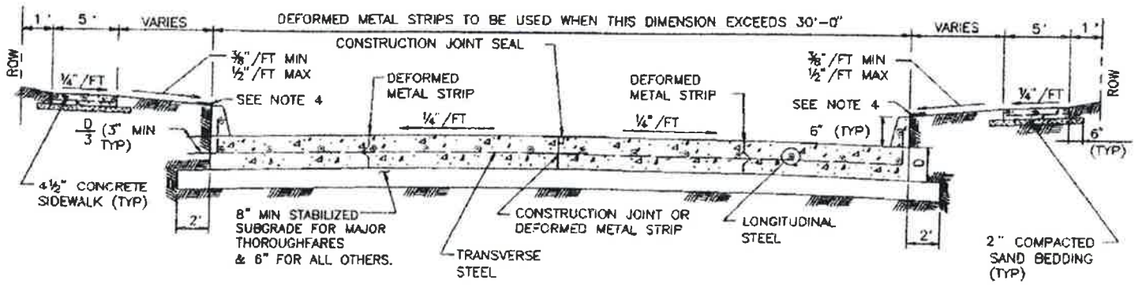
1. THE MAXIMUM WIDTH BETWEEN LONGITUDINAL JOINTS SHALL NOT EXCEED 15'-0".
2. ALL EARTHEN AREAS ARE TO BE HYDROMULCHED UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. CONTRACTOR MAY SAW CUT IN LIEU OF DEFORMED METAL STRIP.
4. USE STRIP OF SOD GRASS TO PREVENT EROSION UNTIL STAND OF GRASS IS ESTABLISHED.
5. AN EQUAL OR LARGER AREA OF WELDED REINFORCEMENT BAR CONFORMING TO ASTM A497, MAY BE SUBSTITUTED FOR REBARS LISTED IN TABLE 1.
6. IF AVAILABLE ROW IS NOT SUFFICIENT TO ACCOMMODATE A 5-FEET SIDEWALK, ENGINEER SHALL OBTAIN A VARIANCE FROM THE CITY ENGINEER FOR A 4-FEET WIDE SIDEWALK.

TABLE 1

REINFORCING STEEL BAR SIZES AND SPACINGS FOR VARIOUS PAVEMENT THICKNESSES (D) WITH: MAXIMUM EXPANSION JOINT SPACING = 80 FT. f'_c = 3,500 PSI/28 DAYS AND FY = 60,000 PSI

PAVEMENT THICKNESS D (IN)	PAVEMENT WIDTH (FT)	LONGITUDINAL STEEL # 4 BARS: NUMBER OF BARS	# 4 BARS: SPACING (IN)	# 4 BARS: END BAR SPACING (IN)	# 5 BARS: NUMBER OF BARS	# 5 BARS: SPACING (IN)	# 5 BARS: END BAR SPACING (IN)	# 6 BARS: NUMBER OF BARS	# 6 BARS: SPACING (IN)	# 6 BARS: END BAR SPACING (IN)	TRANSVERSE STEEL # 4 BARS: SPACING (IN)	# 5 BARS: SPACING (IN)	# 6 BARS: SPACING (IN)
6	28	17	20.30	4	-	-	-	-	-	-	36	-	-
7	25	17	18.25	4	-	-	-	-	-	-	36	-	-
7	30	21	19.00	3	-	-	-	-	-	-	36	-	-
7	34	25	17.70	3	-	-	-	-	-	-	36	-	-
7	37	25	18.25	3	-	-	-	-	-	-	36	-	-
7	41	28	18.00	3	-	-	-	-	-	-	36	-	-
7	45	31	17.78	3.75	-	-	-	-	-	-	36	-	-
8	25	20	15.30	2.75	13	24.50	3	-	-	-	36	36	-
8	34	27	13.38	2.5	17	25.00	4	-	-	-	36	36	-
8	33	27	18.00	2	19	24.25	4	-	-	-	36	36	-
8	38	28	15.75	3.25	18	25.00	3	-	-	-	30	36	-
8	44	34	13.78	4	22	24.75	4	-	-	-	30	36	-
8	49	35	15.75	2.25	23	24.75	3	-	-	-	30	36	-
9	29	23	14.00	3	14	22.50	4	-	-	-	36	36	-
9	34	31	13.90	2	19	22.25	3.5	-	-	-	30	36	-
9	35	31	13.75	1.75	20	21.75	3.5	-	-	-	30	36	-
9	38	32	13.75	3	21	21.25	3.5	-	-	-	30	36	-
9	44	38	13.75	2.75	25	21.75	3	-	-	-	24	36	-
9	49	39	14.00	4	26	21.25	4.5	-	-	-	24	36	-
10	25	24	12.75	3.5	17	18.25	4	-	-	-	36	36	36
10	34	33	12.50	4	21	20.00	4	-	-	-	30	36	36
10	38	36	12.50	3.75	23	18.75	4	-	-	-	30	36	36
10	38	36	12.50	3.5	24	18.50	3	-	-	-	30	36	36
10	44	44	12.00	4	29	18.50	4.5	-	-	-	24	36	36
10	48	46	12.50	3	29	19.00	3	-	-	-	24	36	36
11	25	27	11.25	3	17	18.25	4	12	26.75	3	36	36	36
11	34	38	11.50	2.75	24	17.80	2.5	17	23.00	4	24	36	36
11	38	37	11.50	3	24	18.00	3	17	23.75	4	24	36	36
11	38	40	11.00	2	26	17.75	3	17	24.50	4	24	36	36
11	44	48	11.125	2.5	30	18.00	3	21	24.00	4	24	36	36
11	48	49	11.125	3	31	17.75	4	23	23.50	3	24	36	36
12	25	-	-	-	19	18.25	4	13	24.50	3	36	36	36
12	34	-	-	-	26	18.00	4	18	23.50	4	24	36	36
12	38	-	-	-	28	18.50	4	19	23.00	3	24	36	36
12	38	-	-	-	27	18.25	4.5	20	22.25	4.5	24	36	36
12	44	-	-	-	33	18.25	4	24	22.50	5	24	30	36
12	48	-	-	-	35	17.75	3	25	22.25	5	24	30	36

MINIMUM LAP LENGTHS (L):
A. # 4 BARS; L = 22 INCHES
B. # 5 BARS; L = 27 INCHES
C. # 6 BARS; L = 32 INCHES



TYPICAL SINGLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CONCRETE PAVEMENT DETAILS

(NOT TO SCALE)

APPROVED BY	APPROVED BY
CITY ENGINEER	DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2009	DWG NO: 02751-01

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
12-5-14

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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT
CONCRETE PAVEMENT DETAILS

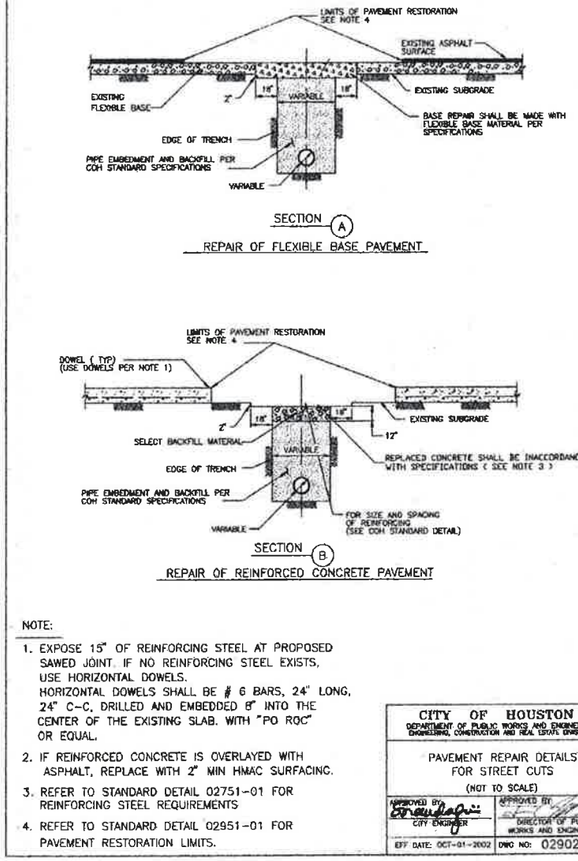
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	
FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: N.T.S.	
SHEET NO. 55 OF 61	

PROJ 12370.9



NOTE:

1. EXPOSE 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE # 6 BARS, 24" LONG, 24" C-C, DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB. WITH "PO ROC" OR EQUAL.
2. IF REINFORCED CONCRETE IS OVERLAYED WITH ASPHALT, REPLACE WITH 2" MIN HMAC SURFACING.
3. REFER TO STANDARD DETAIL 02751-01 FOR REINFORCING STEEL REQUIREMENTS
4. REFER TO STANDARD DETAIL 02951-01 FOR PAVEMENT RESTORATION LIMITS.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

PAVEMENT REPAIR DETAILS FOR STREET CUTS
(NOT TO SCALE)

APPROVED BY: CITY ENGINEER
APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

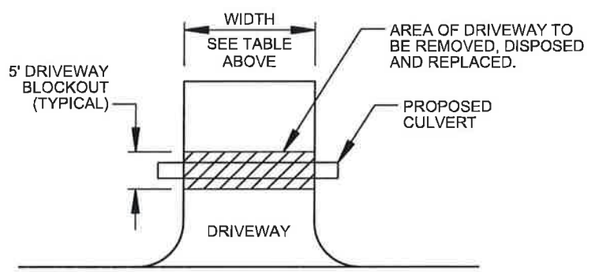
EFF DATE: OCT-01-2002 DWG NO: 02902-01

DRIVEWAY SUMMARY

SHEET NO.	CL STATION	WIDTH (FT)
10	61+90	10
10	68+35	50
10	69+10	30
10	66+10	30
10	67+85	30
10	68+40	50
10	69+75	40
11	71+15	50
11	74+65	40
11	75+22	20
11	76+15	20
11	71+00	40
11	71+75	20
11	75+82	15
11	76+22	25
11	77+42	15
11	78+00	25
11	78+85	20
12	83+85	15
12	86+00	30
12	85+30	50
12	87+50	35
13	91+25	25
13	91+90	25
15	111+95	12
15	112+50	20
15	112+00	25
15	112+53	30

DRIVEWAY SUMMARY

SHEET NO.	CL STATION	WIDTH (FT)
18	2+75	30
18	7+85	20
19	14+20	25
19	18+65	20
19	19+35	20
20	23+15	20
20	24+15	15
20	25+45	20
20	26+70	20
20	27+80	15
20	29+20	15
20	28+80	25
21	34+42	15
21	35+15	25
22	43+65	25
22	47+18	20
23	51+15	15
23	56+65	40
23	59+80	20
24	60+65	15
24	62+00	30
24	63+55	25
24	64+20	30
24	61+60	25



DRIVEWAY DETAIL
NOT TO SCALE

STATE OF TEXAS
JAVIER M. CASAS
85404
LICENSED
PROFESSIONAL ENGINEER
Javier M. Casas
12-5-14

McDONOUGH
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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
PAVEMENT REPAIR AND
DRIVEWAY DETAILS
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

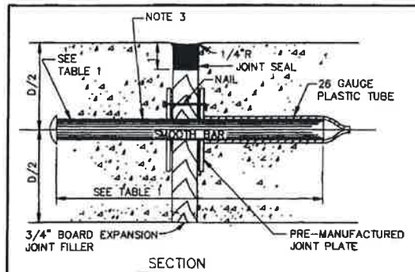
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

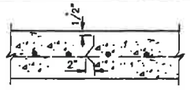
DRAWING SCALE: N.T.S.

SHEET NO. 56 OF 61

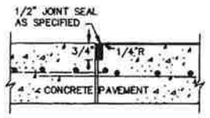
PROJ 13270.3



SECTION
DOWEL TYPE EXPANSION JOINT
N.T.S



SECTION
DEFORMED METAL STRIP
N.T.S.



SECTION
CONSTRUCTION JOINT SEAL
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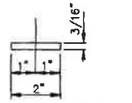
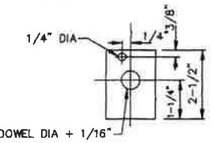


PLAN – JOINT PLATE



ELEVATION – JOINT PLATE
N.T.S.

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED ON 12" CENTERS.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS.
3. CENTER DOWEL HORIZONTALLY ON JOINT.
4. CENTER DOWEL VERTICALLY IN CONCRETE BASE. EXTEND THICKENED CONCRETE AS NEEDED TO MAINTAIN 3" MIN. COVER.
5. CITY OF HOUSTON APPROVED PRODUCTS MAY BE USED AS JOINT PLATE ALTERNATIVE

TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
6	3/4	18	12
7	1	18	12
8	1	18	12
9	1 1/4	18	12
10	1 1/4	18	12
11	1 1/4	18	12
12	1 1/4	18	12

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

PAVEMENT EXPANSION AND CONSTRUCTION JOINT DETAILS
(NOT TO SCALE)

APPROVED BY: CITY ENGINEER
APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: June-01-2003 | DWG NO: 02752-01

STATE OF TEXAS
JAVIER M. CASAS
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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT CONSTRUCTION JOINT DETAILS

HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

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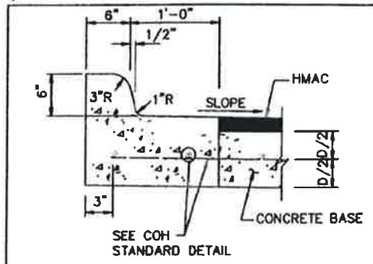
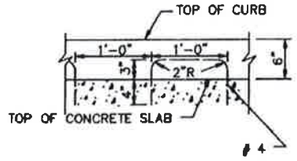
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: N.T.S.	
SHEET NO. 57 OF 61	

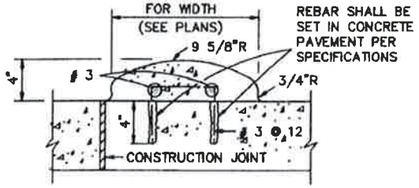
PROJ 12270 3



ESPLANADE CURB CONNECTED TO CONCRETE BASE



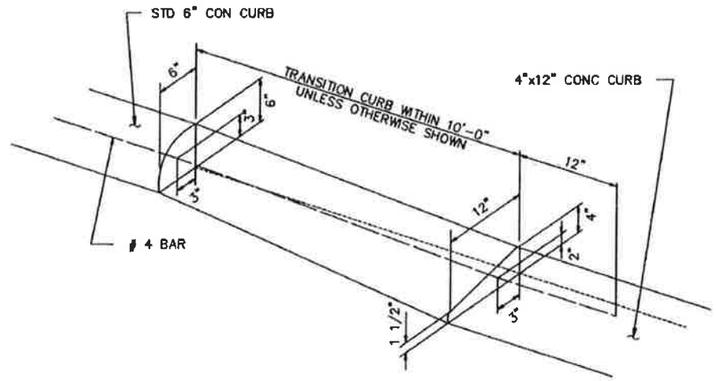
ALTERNATE CONCRETE CURB REINFORCEMENT



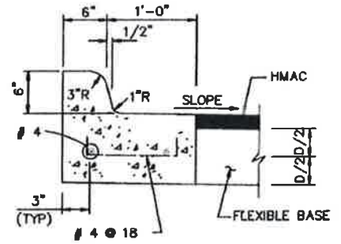
MOUNTABLE CURB

4"x12" MONOLITHIC AND TRANSITION CURB NOTES:

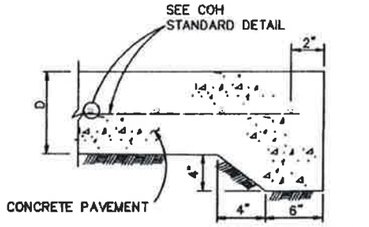
1. 6-INCH CONCRETE CURB TO BE CONSTRUCTED ON ALL ESPLANADES, ISLANDS NON-RESIDENTIAL STREETS, AND RESIDENTIAL STREETS.
2. TRANSITIONS FROM 6-INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB TO BE ACCOMPLISHED WITHIN 10 FEET, UNLESS OTHERWISE SHOWN. IF THIS 10-FOOT TRANSITION CURB IS NOT POURED MONOLITHICLY WITH THE PAVEMENT, THEN REINFORCING STEEL AS SHOWN IN "4-INCH x 12-INCH TRANSITION CURB" IS TO BE INSTALLED.



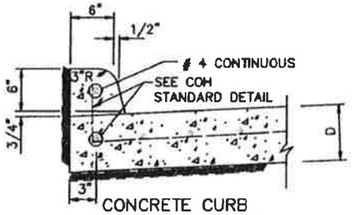
CURB TRANSITION



ESPLANADE CURB CONNECTED TO FLEXIBLE BASE

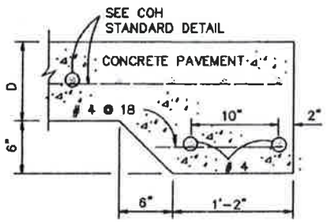


STANDARD CONCRETE PAVING HEADER

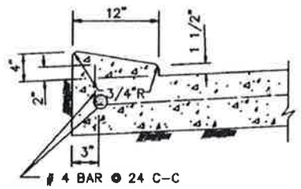


CONCRETE CURB

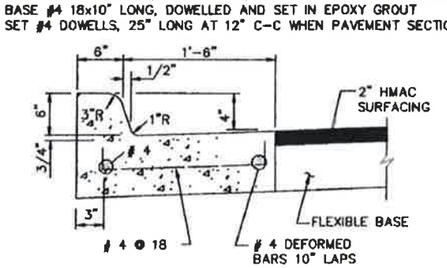
WHEN CONCRETE CURB IS TO BE PLACED EXISTING CONCRETE USE BASE #4 18x10" LONG, DOWELLED AND SET IN EPOXY GROUT SET #4 DOWELLS, 25" LONG AT 12" C-C WHEN PAVEMENT SECTION POURED.



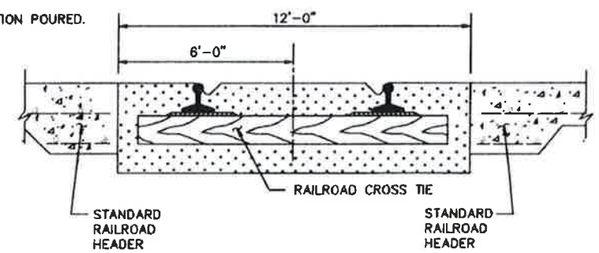
STANDARD RAILROAD HEADER



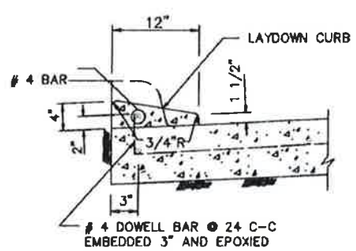
4-INCH x 12-INCH MONOLITHIC CURB



MONOLITHIC CURB AND GUTTER



STANDARD RAILROAD CROSSING - SINGLE TRACK



4-INCH x 12-INCH TRANSITION CURB

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

CURB, CURB AND GUTTER AND HEADER DETAILS

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2009	DWG NO: 02771-01

STATE OF TEXAS
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CITY WIDE OVERLAY PROJECT
S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
CURB, CURB AND GUTTER AND HEADER DETAILS
HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

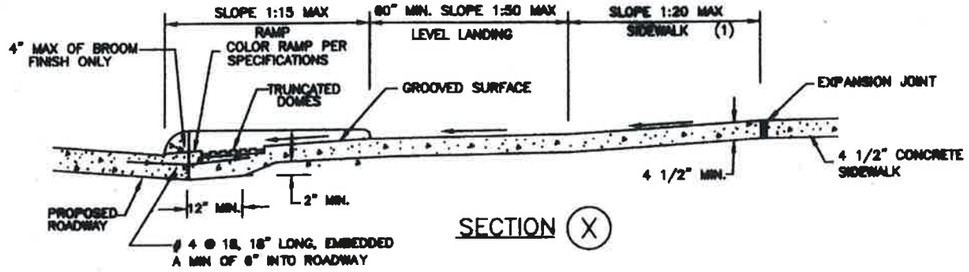
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. | FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE: N.T.S.

SHEET NO. 58 OF 61

PROJ 12270.3



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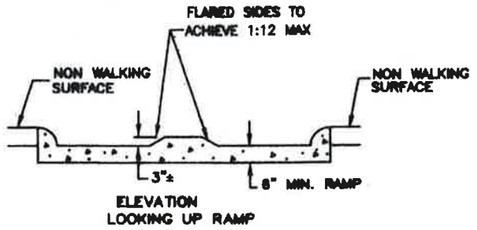
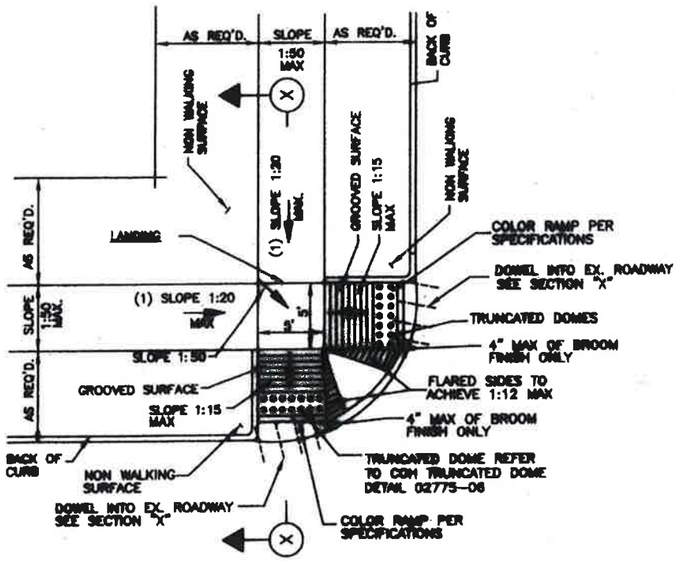
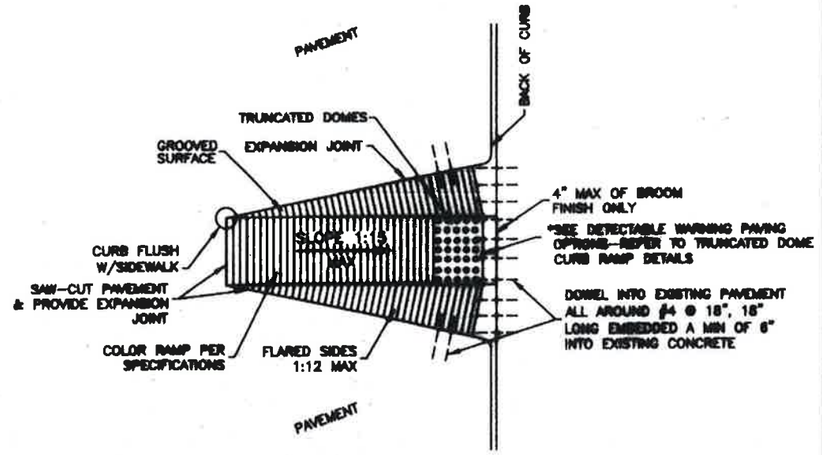


ELEVATION
LOOKING UP RAMP



STREETS WITH NON-WALKING
SURFACE BEHIND CURB

N.T.S.



RAMP CONSTRUCTION FOR EXISTING PAVEMENT

NOTES:

1. REPLACE EXISTING SIDEWALK FROM LEVEL LANDING AS NECESSARY TO ACHIEVE 1:20 SLOPE

2. SLOPES GREATER THAN 1:20 BUT LESS THAN 1:15 (MAX) REQUIRE GROOVES AND COLORING

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WHEEL CHAIR RAMP DETAILS

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER — APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

EFF DATE: APR-18-2011 — DWG NO: 02775-02

COH

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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
WHEEL CHAIR RAMP DETAILS

HOUSTON, HARRIS COUNTY, TEXAS

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY AFTER DATE OF SIGNATURES

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DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
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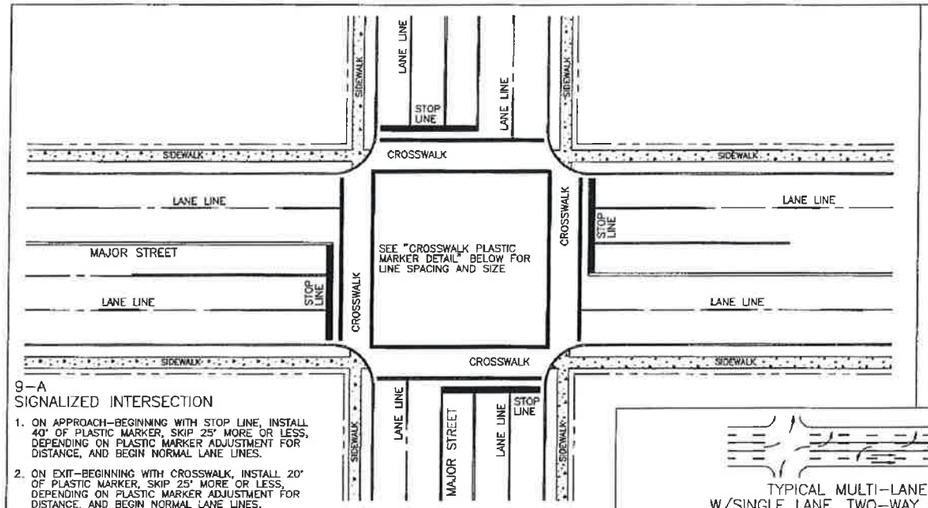
STORM	FACILITIES
STREET & BRIDGE	

FILE NO. — FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE: N.T.S.

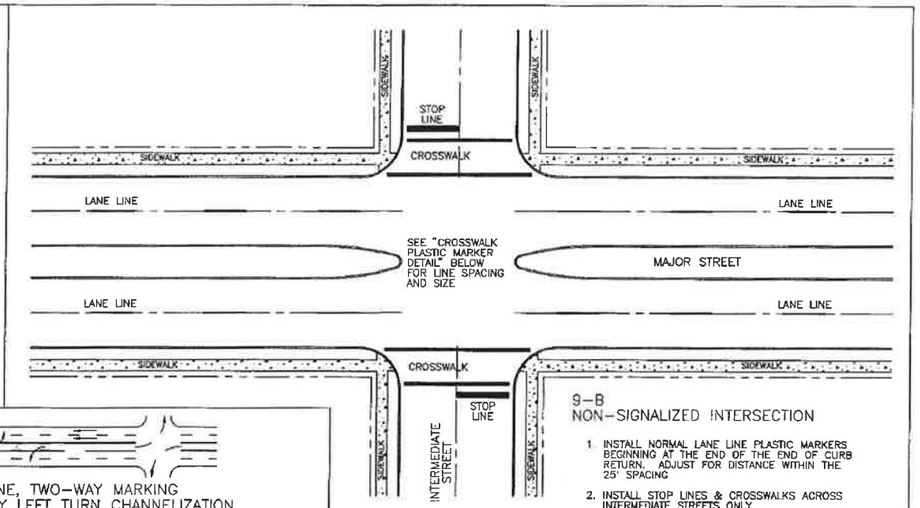
SHEET NO. 59 OF 61

PROJ. 12270 3



9-A
SIGNALIZED INTERSECTION

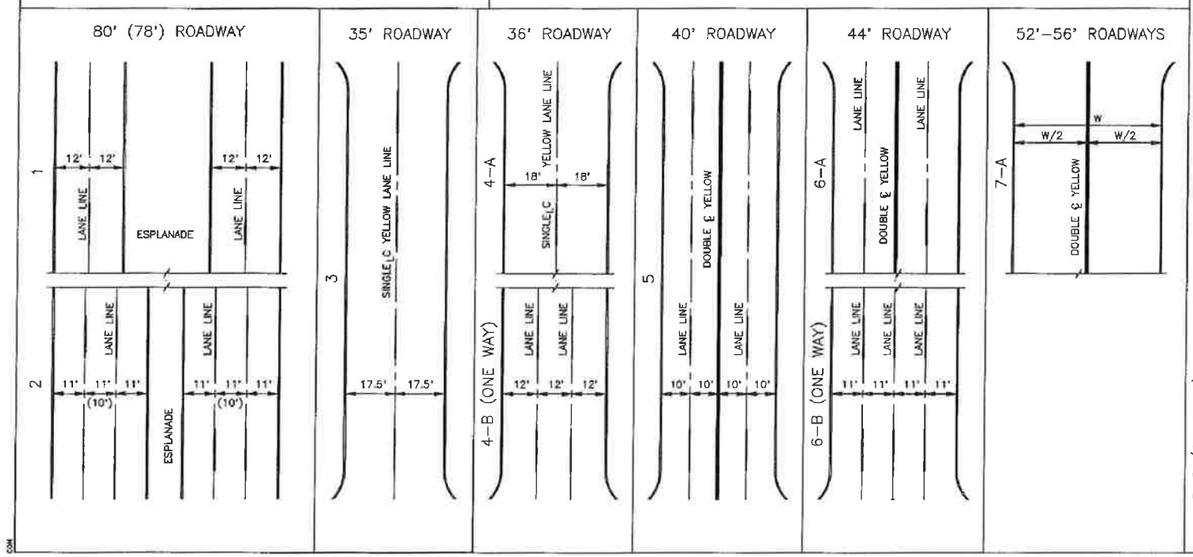
1. ON APPROACH-BEGINNING WITH STOP LINE, INSTALL 40' OF PLASTIC MARKER, SKIP 25' MORE OR LESS, DEPENDING ON PLASTIC MARKER ADJUSTMENT FOR DISTANCE, AND BEGIN NORMAL LANE LINES.
2. ON EXIT-BEGINNING WITH CROSSWALK, INSTALL 20' OF PLASTIC MARKER, SKIP 25' MORE OR LESS, DEPENDING ON PLASTIC MARKER ADJUSTMENT FOR DISTANCE, AND BEGIN NORMAL LANE LINES.

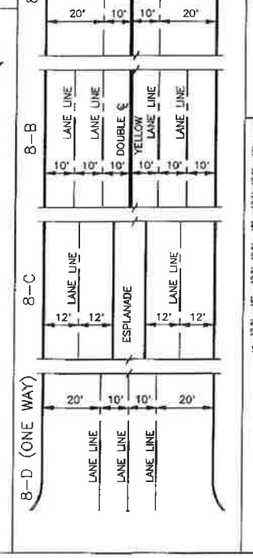


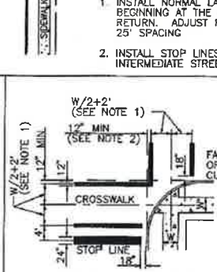
9-B
NON-SIGNALIZED INTERSECTION

1. INSTALL NORMAL LANE LINE PLASTIC MARKERS BEGINNING AT THE END OF THE END OF CURB RETURN. ADJUST FOR DISTANCE WITHIN THE 25' SPACING
2. INSTALL STOP LINES & CROSSWALKS ACROSS INTERMEDIATE STREETS ONLY.

TYPICAL MULTI-LANE, TWO-WAY MARKING
W/SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



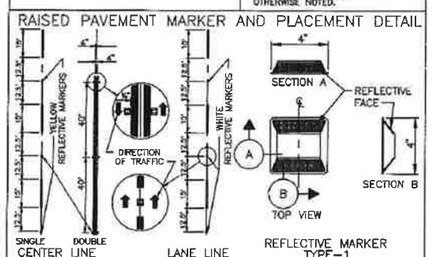




CROSSWALK PLASTIC MARKER DETAIL

GENERAL NOTES

1. MINIMUM CROSSWALK WIDTH, 6' C-C.
2. CROSSWALKS SHALL BE 12" WIDTH APPLIED AS INDICATED IN "CROSSWALK PLASTIC MARKER DETAIL". STOP LINES SHALL BE 24" WIDE OR 2-12" WIDE STRIPES.
3. LANE LINES, SINGLE & DOUBLE >'S SHALL BE 4" WIDE REFLECTORIZED PLASTIC MARKINGS.
4. ALL PLASTIC MARKERS SHALL BE WHITE UNLESS OTHERWISE NOTED.
5. ROADWAY WIDTHS OF 27' OR LESS SHALL HAVE NO LONGITUDINAL MARKINGS.
6. ALL TRAVERSE MARKINGS SHALL END 18" FROM FACE OF CURB.
7. FOR SKEW INTERSECTIONS AND STREET WIDTHS NOT SHOWN, SEE DEPARTMENT OF TRAFFIC AND TRANSPORTATION.
8. ALL DIMENSIONS SHOWN TO CENTER OF PLASTIC MARKINGS, UNLESS OTHERWISE NOTED.



RAISED PAVEMENT MARKER AND PLACEMENT DETAIL

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION

PAVEMENT MARKING DETAILS

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER
APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2000 DWG NO: 02763-01

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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT
PANEL REPLACEMENT PROJECT
PAVEMENT MARKING DETAILS

HOUSTON, HARRIS COUNTY, TEXAS

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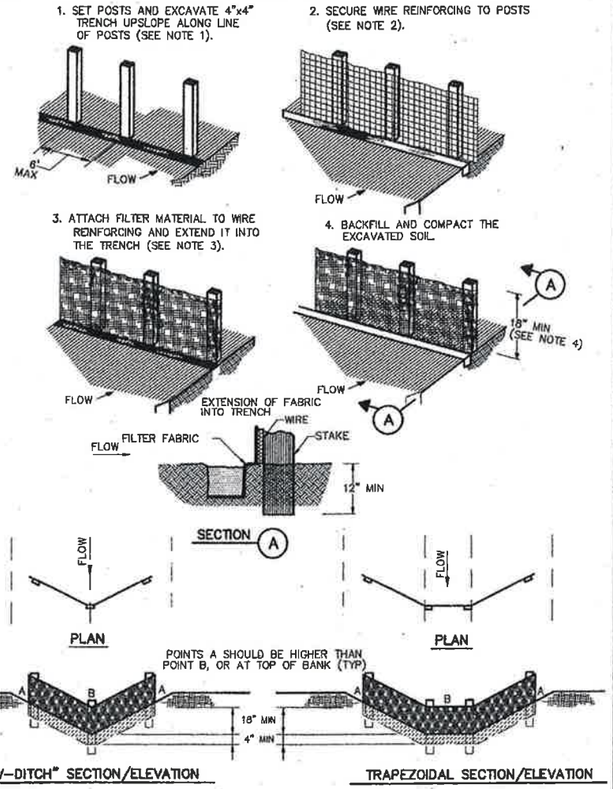
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	

FILE NO.	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: N.T.S.	
SHEET NO. 60 OF 61	

PROJ. 12270.3

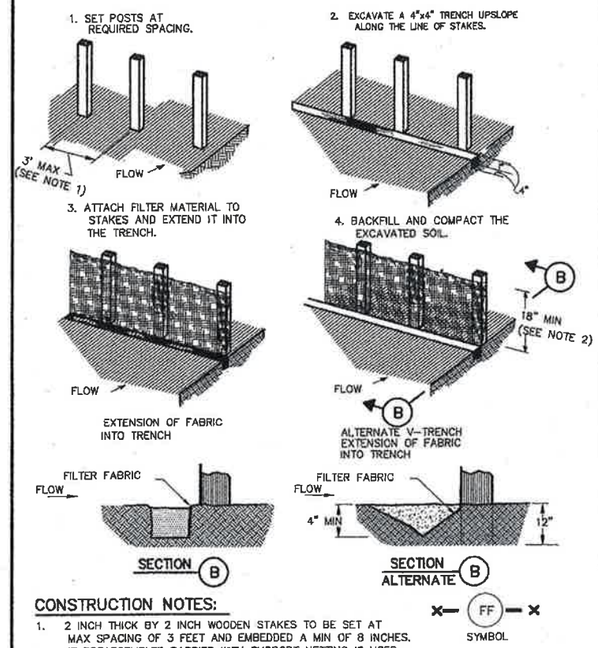


CONSTRUCTION NOTES:

1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
2. WOVEN WIRE REINFORCING TO BE FASTENED SECURELY TO BARRIER POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE REINFORCING, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
6. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

X—(RFB)—X
SYMBOL

REINFORCED FILTER FABRIC BARRIER

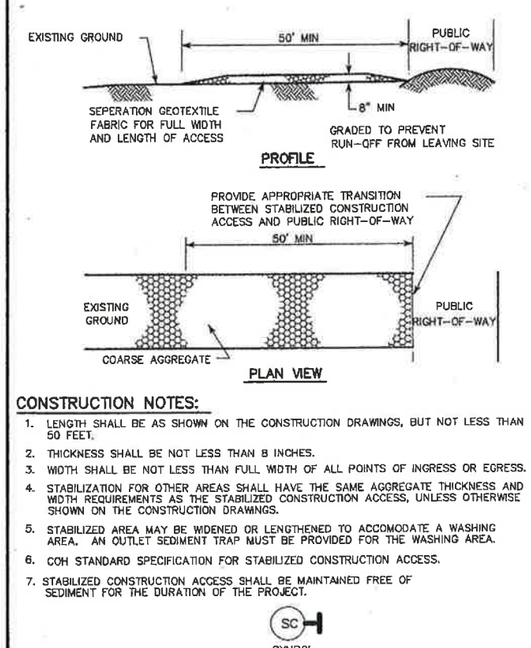


CONSTRUCTION NOTES:

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED BARRIER WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
2. ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC BARRIER SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
4. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

X—(FF)—X
SYMBOL

FILTER FABRIC BARRIER

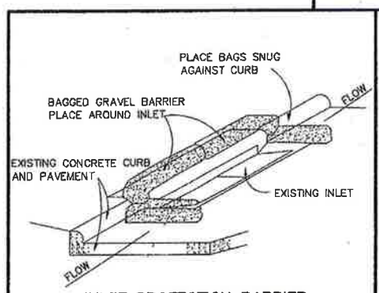


CONSTRUCTION NOTES:

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION ACCESS, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
5. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMODATE A WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE WASHING AREA.
6. COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION ACCESS.
7. STABILIZED CONSTRUCTION ACCESS SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.

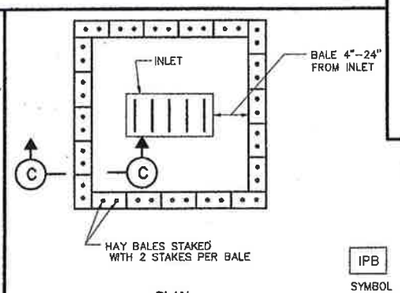
SC
SYMBOL

STABILIZED CONSTRUCTION ACCESS

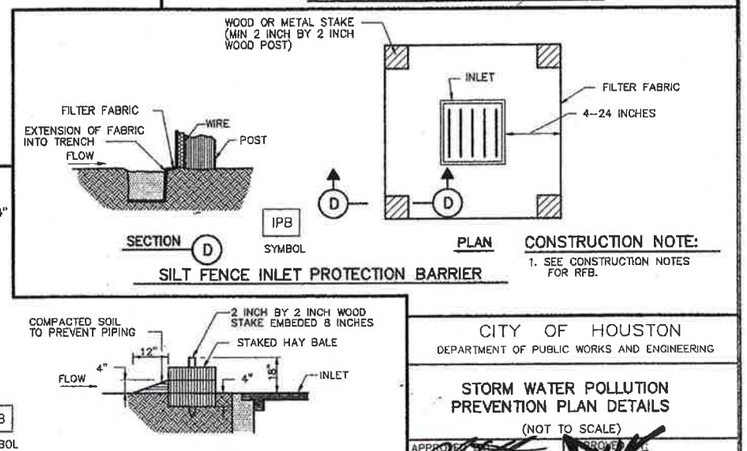


INLET PROTECTION BARRIER

(FOR STAGE II INLETS)
BAGGED GRAVEL BARRIER



HAY BALE INLET PROTECTION BARRIER



SILT FENCE INLET PROTECTION BARRIER

CONSTRUCTION NOTE:

1. SEE CONSTRUCTION NOTES FOR RFB.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STORM WATER POLLUTION PREVENTION PLAN DETAILS
(NOT TO SCALE)

APPROVED: CITY ENGINEER
APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010
DWG NO: 01571-01

STATE OF TEXAS
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CITY WIDE OVERLAY PROJECT

S. WAYSIDE AND W. AIRPORT PANEL REPLACEMENT PROJECT SWPPP DETAILS

HOUSTON, HARRIS COUNTY, TEXAS

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FILE NO.	FOR CITY OF HOUSTON USE ONLY
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SHEET NO. 61 OF 61	

PROJ. 12270.3