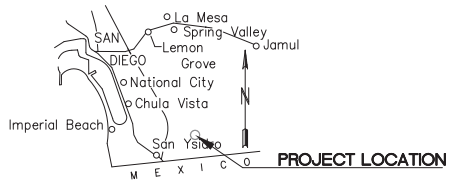
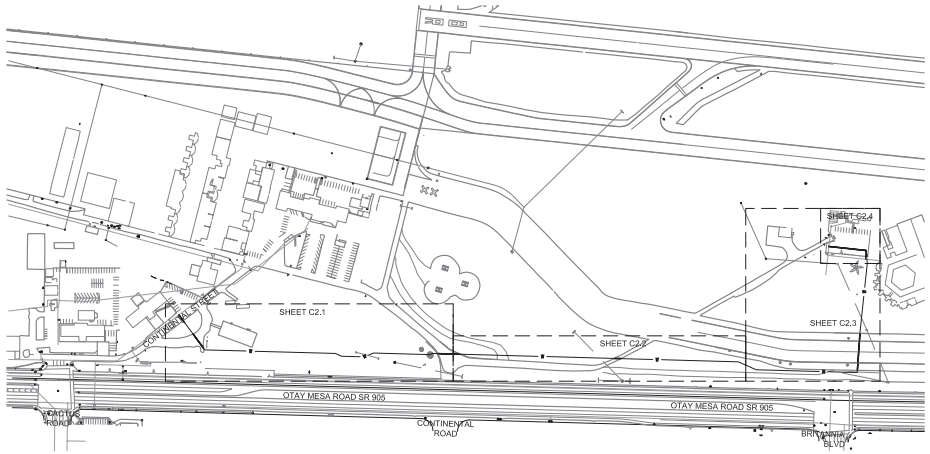
REPLACEMENT OF 2" WATER LATERAL TO AIR TRAFFIC CONTROL TOWER BROWN FIELD MUNICIPAL AIRPORT SAN DIEGO, CA



LOCATION MAP

(T.B. 1351–E1)
N.T.S.



GENERAL NOTES

1.	THE CONTRACTOR SHALL NOTIFY DIGALERT (1-800-227-2600) AT LEAST TWO DAYS PRIOR TO STARTING WORK AND SHALL ARRANGE FOR AND COORDINATE SHUT DOWN, DISCONNECTION AND CAPPING OF EXISTING UTILITIES WITH THE APPROPRIATE UTILITY OWNERS PRIOR TO COMMENCING THE WORK.
2.	PROTECT IN PLACE ALL EXISTING IMPROVEMENTS, STRUCTURES AND UNDERGROUND UTILITIES WHICH ARE TO REMAIN. MAINTAIN UTILITY SERVICES TO ALL EXISTING FACILITIES AT ALL TIMES, UNLESS OTHERWISE SPECIFIED.
3.	THE LOCATION AND EXISTENCE OF EXISTING UNDERGROUND FACILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SEARCH OF AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT POINTS OF CONNECTIONS AND ALL UTILITY CROSSINGS TO DETERMINE EXACT LOCATION PRIOR TO STARTING ANY WORK.
4.	COORDINATE LOCATION OF ALL UNDERGROUND UTILITIES AND STORM DRAINS WITH NEW TREE LOCATIONS, MECHANICAL/ELECTRICAL FACILITIES, AND OTHER INSTALLATIONS. REFER TO LANDSCAPE, PLUMBING, ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5.	ALL EXISTING "DRY" UTILITIES SHOWN HEREON ARE FOR INFORMATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS AND APPROPRIATE UTILITY COMPANY PLANS FOR ANY WORK ON OR WITH THESE UTILITIES.
6.	REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GENERAL LEGEND

EXISTING

ITEM	STANDARD DWGS.	SYMBOL
PROPERTY LINE		
EXISTING CONTOUR		459
EXISTING DEPRESSION		
EXISTING TREE		
EXISTING BRUSH		
EXISTING FENCE		X
EXISTING BUILDING		
EXISTING CONCRETE		
EXISTING CURB AND GUTTER		
EXISTING CURB		
EXISTING SPOT ELEVATION		X 65.40
EXISTING STORM DRAIN CLEANOUT		SD SD
EXISTING STORM DRAIN		SD
EXISTING SEWER LINE		S
EXISTING SEWER CLEANOUT		S
EXISTING WATER SERVICE & METER		W
EXISTING WATER MAIN		W
EXISTING FIRE HYDRANT		FH
EXISTING STREET LIGHT		
EXISTING UTILITY BOX		

PROPOSED

CONCRETE PAVING	
ASPHALT PAVING	
WATER SERVICE & METER	W
WATER LATERAL (2")	W

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY
IS THE LINE BETWEEN GPS POINT #1 AND GPS POINT#189
PER ROS 14492
I.E. N 89°06'48" E 4220.87'

BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS
GPS POINT # 1
PER ROS 14492
ELEV=512.29 NGVD 29

MELCHIOR LAND SURVEYING, INC
5731 PALMER WAY, SUITE G L.S. 4611
CARLSBAD, CALIFORNIA 92010
(760) 438-1726 FAX (760) 438-3991
JN 3349.DWG DATE 02/17/2012

REGIONAL STANDARD DRAWINGS, 2006

WP-02	PIPE BEDDING AND TRENCH BACKFILL FOR POTABLE AND RECYCLED WATER MAINS
WS-02	2" WATER SERVICE INSTALLATION
WS-03	METER BOX LOCATIONS FOR WATER AND RECYCLED WATER APPURTANANCES

INDEX OF SHEETS

SHEET NO.	
SDM-D-ATCT-G001	COVER SHEET
SDM-D-ATCT-C001	WATER PLAN
SDM-D-ATCT-C002	WATER PLAN
SDM-D-ATCT-C003	WATER PLAN
SDM-D-ATCT-C004	FAA-WATER PLAN
SDM-D-ATCT-C005	DETAIL SHEET
SDM-D-ATCT-C006	CONSTRUCTION PERMIT

GRAPHIC SCALE
200 0 200 400
(IN FEET)
1 INCH = 200 FT

REGISTERED PROFESSIONAL ENGINEER ERIN SWEENY NO. 56175 Expires 12/31/2012 CIVIL STATE OF CALIFORNIA

BergerABAM
FLORES LUND CONSULTANTS
7220 Trade Street, Suite 120
San Diego, CA 92121 (858) 566-0626

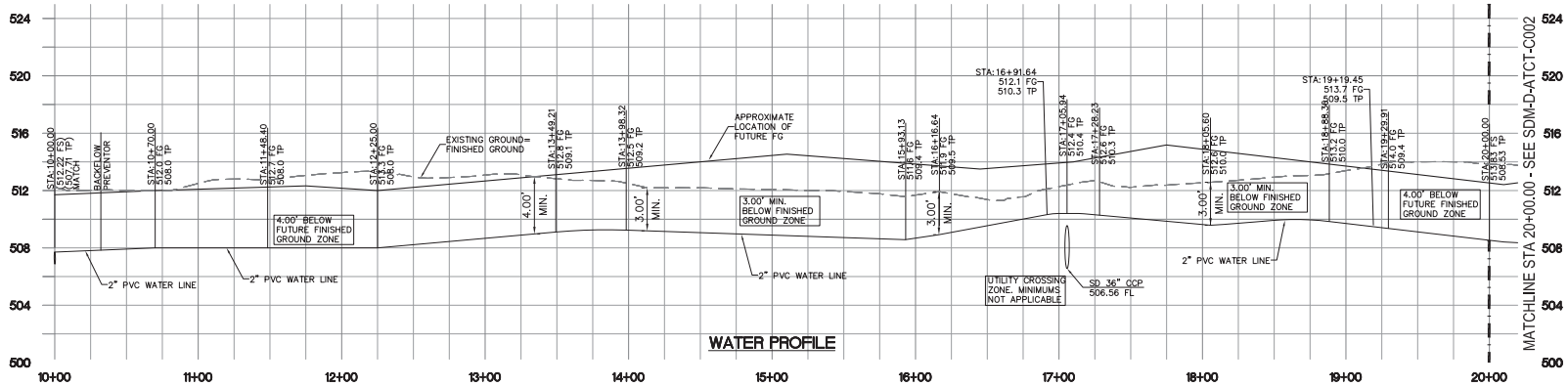
REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

REPLACEMENT OF 2" WATER LATERAL TO ATC TOWER
BROWN FIELD MUNICIPAL AIRPORT
SAN DIEGO, CA

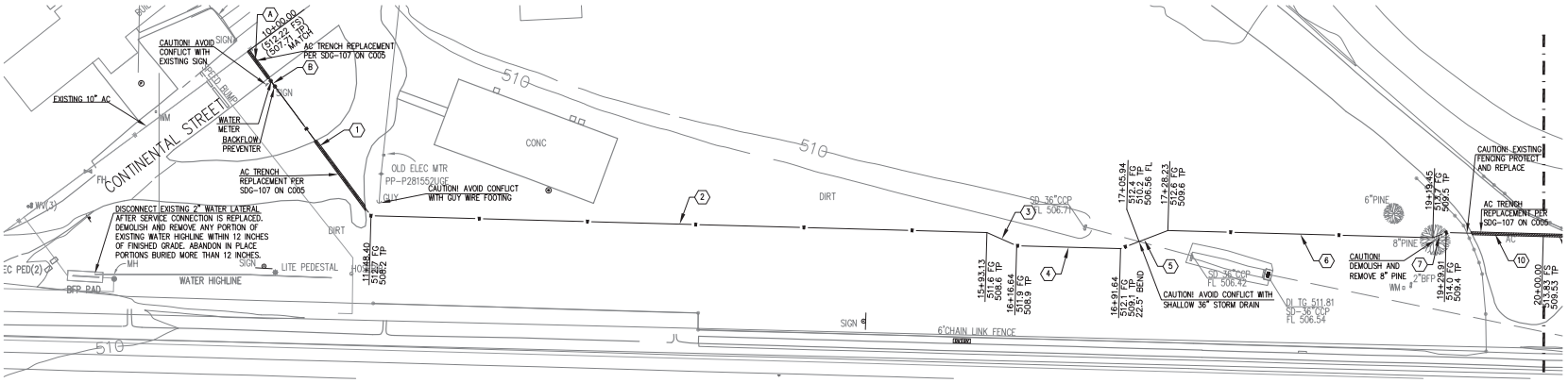
REVIEWED BY	SUBMITTED BY	APPROVED BY
	DESIGNED / ISSUED BY	DATE / JCN
	DRAWN	DRAWING NO: SDM-D-ATCT-G001
	CHECKED	REV

BFLESS BSAVES BTIMES BNAMES



PROFILE

SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



PLAN

SCALE: HORIZONTAL: 1" = 40'

NOTES:
1. LINES A AND B PER CITY OF SAN DIEGO CONSTRUCTION PLAN, PART OF PUBLIC PERMIT. SEE COPY ON C006.
2. DISCONNECT EXISTING 2" WATER LATERAL AFTER SERVICE CONNECTION IS REPLACED. DEMOLISH AND REMOVE ANY PORTION OF EXISTING WATER HIGHLINE WITHIN 12 INCHES OF FINISHED GRADE. ABANDON IN PLACE PORTIONS BURIED MORE THAN 12 INCHES.
3. REPLACE PAVEMENT SECTION WITH SECTION IN KIND. ASSUME 4" AC ON 8" AB FOR ASPHALT SECTION AND 12" CONCRETE FOR CONCRETE SECTION. FINAL PAVEMENT SECTION PER GEOTECHNICAL ENGINEER. MICROTUNNELING UNDER CONCRETE IS ALSO AN OPTION.
4. WHERE PROPOSED WATERLINE CROSSES OVER EXISTING STORM DRAIN SECTION THERE IS LESS THAN 30" COVER. SLEEVE 2" PVC WATER THROUGH A 10 FOOT LENGTH OF 4" PVC COATED STEEL PIPE. PROVIDE 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD BETWEEN WATER AND STORM DRAIN.
5. PROVIDE TRACER WIRE OVER ENTIRE LENGTH OF WATER LINE PER DETAIL SHEET.
6. DEMOLISH TREE IF NECESSARY NEAR STA 19+20.
7. PROTECT EXISTING FENCING AND REPLACE IN KIND WHEN NECESSARY TO CROSS THROUGH.

WATER DATA TABLE

(#)	LENGTH (FT)	BEARING/DELTA	DESCRIPTION
A	26.97	S36°34'40"E	2" PVC SCHEDULE 80 WATER LINE
B	5.13	S36°34'40"E	2" PVC SCHEDULE 80 WATER LINE
1	116.30	S36°34'40"E	2" PVC SCHEDULE 80 WATER LINE
2	444.73	S88°26'14"E	2" PVC SCHEDULE 80 WATER LINE
3	23.51	N65°56'14"W	2" PVC SCHEDULE 80 WATER LINE
4	75.00	S88°26'14"E	2" PVC SCHEDULE 80 WATER LINE
5	36.59	N69°03'46"E	2" PVC SCHEDULE 80 WATER LINE
6	191.22	S88°26'14"E	2" PVC SCHEDULE 80 WATER LINE
7	10.46	N69°03'46"E	2" PVC SCHEDULE 80 WATER LINE
8	70.09	S88°26'14"E	2" PVC SCHEDULE 80 WATER LINE

GRAPHIC SCALE
40 0 40 80
(IN FEET)
1 INCH = 40 FT

FLC
1"=40'

REGISTERED PROFESSIONAL ENGINEER
VALERIA SMEVENY
NO. 56175
Expires 12/31/2012
CIVIL
STATE OF CALIFORNIA

BergerABAM
FLORES LUND CONSULTANTS
7220 Trade Street, Suite 120
San Diego, CA 92121 (858) 566-0626

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

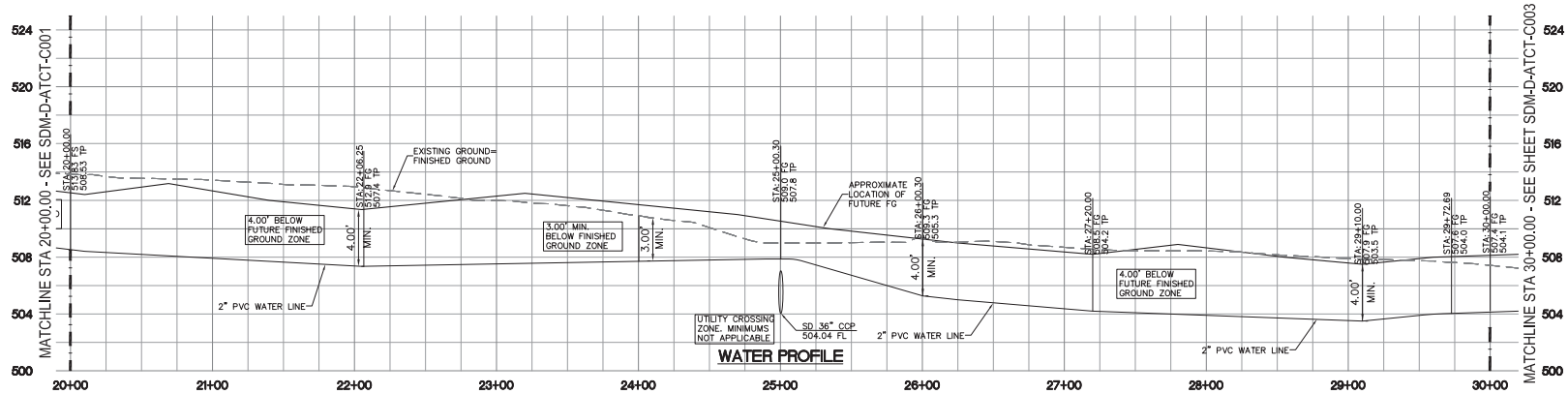
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

REPLACEMENT OF 2" WATER LATERAL TO ATC TOWER STA 10+00 TO 20+00

BROWN FIELD MUNICIPAL AIRPORT
SAN DIEGO, CA

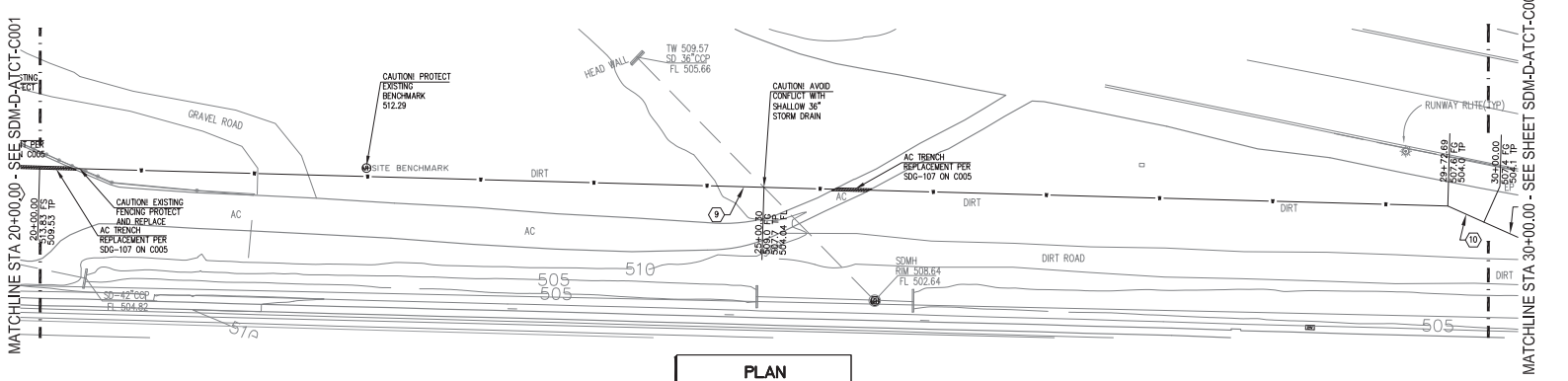
REVIEWED BY | SUBMITTED BY | APPROVED BY
DESIGNED | ISSUED BY | DATE | JCN
DRAWN | DRAWING NO SDM-D-ATCT-C001 | REV
CHECKED

BFLESS BSAVES STIMES BNAMES



PROFILE

SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



PLAN

SCALE: HORIZONTAL: 1" = 40'

WATER DATA TABLE			
#	LENGTH (FT)	BEARING	DESCRIPTION
9	972.69	S88°26'14"E	2" PVC SCHEDULE 80 WATER LINE
10	27.31	S65°56'14"E	2" PVC SCHEDULE 80 WATER LINE

NOTES:
1. REPLACE PAVEMENT SECTION WITH SECTION IN KIND. ASSUME 4" AC ON 8" AB FOR ASPHALT SECTION AND 12" CONCRETE FOR CONCRETE SECTION. FINAL PAVEMENT SECTION PER GEOTECHNICAL ENGINEER. MICROTUNNELING UNDER CONCRETE IS ALSO AN OPTION.
2. PROTECT EXISTING FENCING AND REPLACE IN KIND WHEN NECESSARY TO CROSS THROUGH.
3. WHERE PROPOSED WATERLINE CROSSES OVER EXISTING STORM DRAIN SECTION THERE IS LESS THAN 30" COVER. SLEEVE 2" PVC WATER THROUGH A 10 FOOT LENGTH OF 4" PVC COATED STEEL PIPE. PROVIDE 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD BETWEEN WATER AND STORM DRAIN.
4. PROVIDE TRACER WIRE OVER ENTIRE LENGTH OF WATER LINE PER DETAIL SHEET.

GRAPHIC SCALE
40 0 40 80
(IN FEET)
1 INCH = 40 FT

FLC
1"=40'

REGISTERED PROFESSIONAL ENGINEER
VERN SWEENEY
NO. 56175
Expires 12/31/2012
CIVIL
STATE OF CALIFORNIA

BergerABAM
FLORES LUND CONSULTANTS
7220 Trade Street, Suite 120
San Diego, CA 92121 (858) 566-0626

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

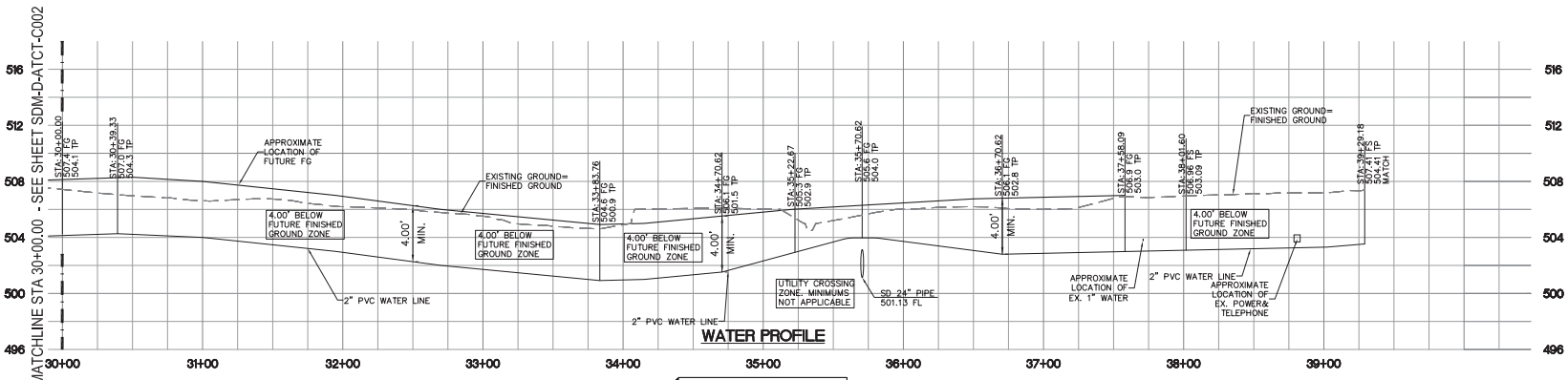
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

REPLACEMENT OF 2" WATER LATERAL TO ATC TOWER STA 20+00-30+00

BROWN FIELD MUNICIPAL AIRPORT
SAN DIEGO, CA

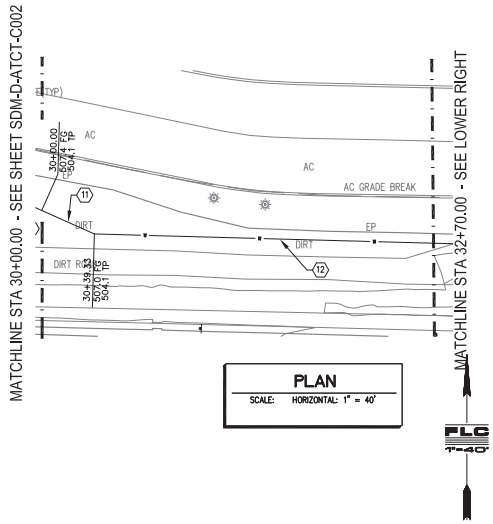
REVIEWED BY	SUBMITTED BY	APPROVED BY
DESIGNED	ISSUED BY	DATE / JCN
DRAWN		DRAWING NO: SDM-D-ATCT-C002
CHECKED		REV

UNLESS OTHERWISE NOTED DIMENSIONS

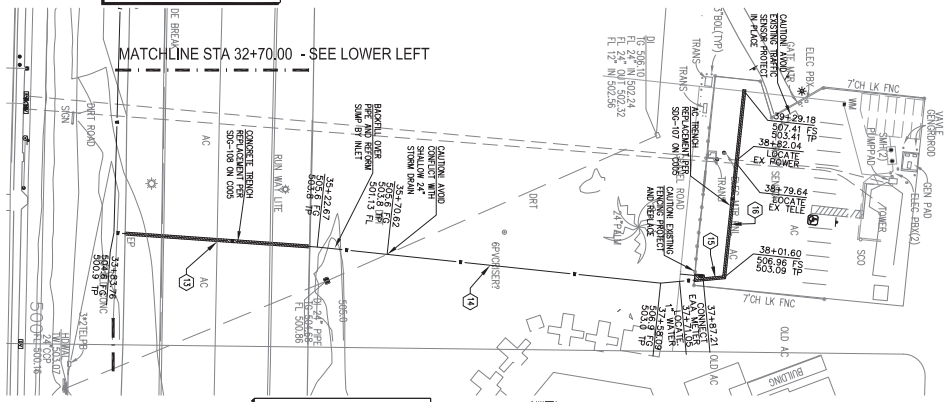


WATER PROFILE

PROFILE
SCALE: HORIZONTAL: 1" = 40'
VERTICAL: 1" = 4'



PLAN
SCALE: HORIZONTAL: 1" = 40'



PLAN
SCALE: HORIZONTAL: 1" = 40'

FLG 1"=40'

GRAPHIC SCALE
40 0 40 80
(IN FEET)
1 INCH = 40 FT

REGISTERED PROFESSIONAL ENGINEER
VARIN SWEEZY
NO. 56175
Expires 12/31/2012
CIVIL
STATE OF CALIFORNIA

NOTES:
1. REPLACE PAVEMENT SECTION WITH SECTION IN KIND. ASSUME 4" AC ON 8" AB FOR ASPHALT SECTION AND 12" CONCRETE FOR CONCRETE SECTION. FINAL PAVEMENT SECTION PER GEOTECHNICAL ENGINEER. MICROTUNNELING UNDER CONCRETE IS ALSO AN OPTION.
3. WHERE PROPOSED WATERLINE CROSSES OVER EXISTING STORM DRAIN SECTION THERE IS LESS THAN 30" COVER, SLEEVE 2" PVC WATER THROUGH A 10 FOOT LENGTH OF 6" STEEL PIPE. PROVIDE 6" MINIMUM SAND CUSHION WITH 1" NEOPRENE PAD BETWEEN WATER AND STORM DRAIN.
4. PROVIDE TRACER WIRE OVER ENTIRE LENGTH OF WATER LINE PER DETAIL SHEET.
5. FOR 1"=10' PLAN VIEW OF FAA ENCLOSED AREA SEE SDM-D-ATCT-C004. ALIGNMENT AND CONDITION OF EXISTING UTILITIES IN VICINITY OF FAA FENCING TO BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION.

WATER DATA TABLE

(#)	LENGTH (FT)	BEARING	DESCRIPTION
11	39.33	S65°56'14"E	2" PVC SCHEDULE 80 WATER LINE
12	344.43	S88°26'14"E	2" PVC SCHEDULE 80 WATER LINE
13	138.91	N04°00'22"E	2" PVC SCHEDULE 80 WATER LINE
14	235.42	N06°00'19"E	2" PVC SCHEDULE 80 WATER LINE
15	43.51	N05°14'41"W	2" PVC SCHEDULE 80 WATER LINE
16	127.58	N83°50'26"W	2" PVC SCHEDULE 80 WATER LINE

BergerABAM
FLORES LUND CONSULTANTS
7220 Trade Street, Suite 120
San Diego, CA 92121 (858) 566-0626

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

REPLACEMENT OF 2" WATER LATERAL TO ATC TOWER STA 30+00 TO 40+00

BROWN FIELD MUNICIPAL AIRPORT
SAN DIEGO, CA

REVIEWED BY | SUBMITTED BY | APPROVED BY
DESIGNED | ISSUED BY | DATE | JCN
DRAWN
CHECKED
DRAWING NO SDM-D-ATCT-C003 REV

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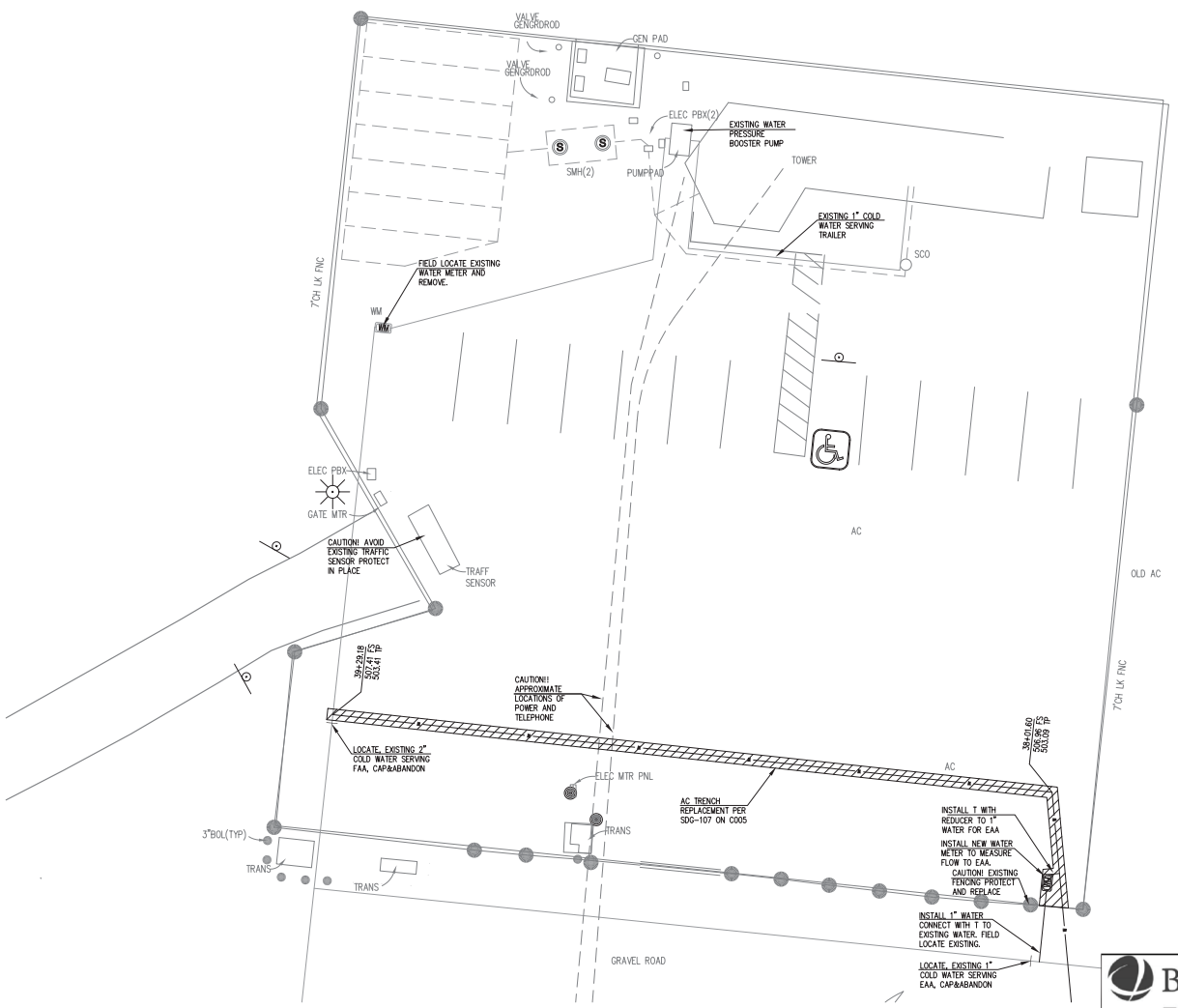


NOTES:
1. REPLACE PAVEMENT SECTION WITH SECTION IN KIND. ASSUME 4" AC ON 8" AB FOR ASPHALT SECTION. FINAL PAVEMENT SECTION PER GEOTECHNICAL ENGINEER.
2. PROVIDE TRACER WIRE OVER ENTIRE LENGTH OF WATER LINE PER DETAIL SHEET.
3. FOR 1"=40' PLAN AND PROFILE VIEW SEE SDM-D-ATCT-C003. ALIGNMENT AND CONDITION OF EXISTING UTILITIES IN VICINITY OF FAA FENCING TO BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION.

PLAN
SCALE: HORIZONTAL: 1" = 10'

GRAPHIC SCALE
10 0 10 20
(IN FEET)
1 INCH = 10 FT

FLC 1"=10'

REGISTERED PROFESSIONAL ENGINEER
VERN SWEEZEY
NO. 56175
Expires 12/31/2012
CIVIL
STATE OF CALIFORNIA

BergerABAM
FLORES LUND CONSULTANTS
7220 Trade Street, Suite 120
San Diego, CA 92121 (858) 566-0626

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

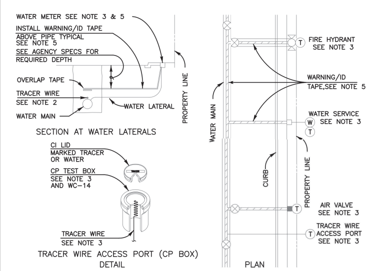
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

REPLACEMENT OF 2" WATER LATERAL TO ATC TOWER

BROWN FIELD MUNICIPAL AIRPORT
SAN DIEGO, CA

REVIEWED BY	SUBMITTED BY	APPROVED BY
	DESIGNED	ISSUED BY
	DRAWN	DATE / JCN
	CHECKED	DRAWING NO: SDM-D-ATCT-C004 / REV

BFLESS BSAVES STIMES BNAMES



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) WHERE SPECIFIED, TRACER WIRE AND OR WARNING ID TAPE, TO RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH OF WATER MAINS. WIRE SHALL BE SECURED TO THE PIPE AND MAINTAINED ON PIPE CENTERLINE DURING TRENCH BACKFILL
3) TRACER WIRE ACCESS PORTS SHALL BE INSTALLED WITHIN THE CONCRETE SPLASH PAD OF ALL FIRE HYDRANTS IN ACCORDANCE WITH THE STANDARD DRAWINGS. TRACER WIRE MAY TERMINATE WITHIN METER BOX, BLOWOFF BOX OR AIR VALVE PER AGENCY'S SPECIFICATIONS. TRACER WIRE MAY TERMINATE IN A CP TEST BOX ONLY IF NO OTHER APPURTENANCE EXISTS WITHIN THE REQUIRED 305m (1,000') INTERVAL. ALL BURIED WIRES THAT REQUIRE TRENCHING TO A TEST BOX LOCATION SHALL BE INSTALLED, WITHOUT SPLICE, IN A CONDUIT IN THE TRENCH AT A MINIMUM DEPTH OF 600mm (24")
4) WIRE SPLICE CONNECTORS SHALL BE SILICONE FILLED TYPE
5) WARNING/IDENTIFICATION TAPE SHALL BE INSTALLED ABOVE THE PIPE AS SPECIFIED AND RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH OF THE PIPE AND ALL RELATED APPURTENANCES
6) FOR PIPE BEDDING AND TRENCH BACKFILL SEE WP-02
7) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

LEGEND ON PLANS (TRACER WIRE)

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-25		J. Tomasulo	10/04

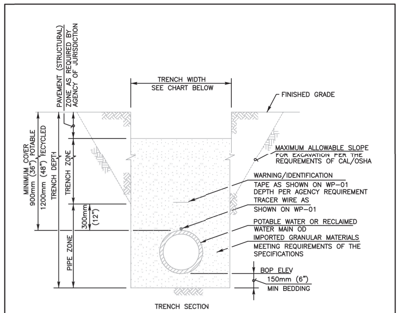
SAN DIEGO REGIONAL STANDARD DRAWING

WARNING/IDENTIFICATION TAPE AND TRACER WIRE INSTALLATIONS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE 10/28/2004 Chairperson R.C.E. 19246 Date

DRAWING NUMBER WP-01

August 2009



NOTES:
1. REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) PAVING OR PAVEMENT REPAIR TO BE DONE IN ACCORDANCE TO CITY OR COUNTY STANDARDS
3) EXCAVATE BELL HOLES AT EACH PIPE JOINT TO PERMIT PROPER ASSEMBLY AND INSPECTION OF THE ENTIRE JOINT
4) ALL PIPELINE TRENCHES SHALL BE EXCAVATED SO THAT THE DISTANCE BETWEEN TRENCH WALLS AT THE TOP OF PIPE SHALL BE AS SHOWN BELOW:

TRENCH WIDTH

NOMINAL PIPE INSIDE DIAMETER	MINIMUM DISTANCE	MAXIMUM DISTANCE
100mm (4") & SMALLER	450mm (18")	700mm (28")
150mm & 200mm (6" & 8")	600mm (24")	800mm (32")
250mm & 300mm (10" & 12")	700mm (28")	900mm (36")
400mm THRU 900mm (16" THRU 36")	OD PLUS 600mm(24")	OD PLUS 900mm(36")

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-21		J. Tomasulo	10/04

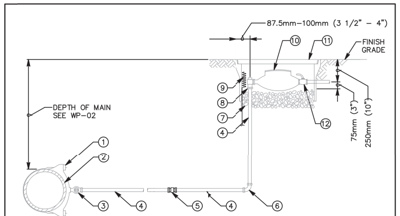
SAN DIEGO REGIONAL STANDARD DRAWING

PIPE BEDDING AND TRENCH BACKFILL FOR POTABLE AND RECYCLED WATER MAINS

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE 10/28/2004 Chairperson R.C.E. 19246 Date

DRAWING NUMBER WP-02

August 2009



NOTES:
1) REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) INSTALL CORPORATION STOP WITH KEY IN THE SIDE POSITION
3) SET TOP OF METER BOX FLUSH WITH SIDEWALK, CURB, OR FINISH GRADE
4) LOCATE METER BOX AS SHOWN ON WS-03
5) INSTALL WARNING/IDENTIFICATION TAPE AS SHOWN ON WP-01
6) WATER LATERALS INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN AGENCY SPECIFICATIONS
7) SILVER SOLDER JOINTS SHALL NOT BE USED
8) ON STEEL MAINS USE WELD ON COUPLINGS, ON DUCTILE IRON MAINS USE DUCTILE IRON SERVICE SADDLES (INSULATING BUSHINGS ARE REQUIRED)
9) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

W 50mm (2")
RW 50mm (2")
LEGEND ON PLANS

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
1	SIZE x 50mm (2") SERVICE SADDLE	7	10mm (3/8") ROCK, 100mm x 150mm (4" TO 6") DEEP
2	WATER MAIN	8	50mm (2") BRONZE ANGLE METER STOP WITH LOCKWING
3	50mm (2") BRONZE CORPORATION STOP	9	TRACER WIRE (AS REQUIRED), SEE WP-01
4	50mm (2") x REQUIRED LENGTH COPPER PIPE TYPE "K" SOFT/RIGID OR UNLESS OTHERWISE SPECIFIED BY AGENCY OF JURISDICTION	10	WATER METER FURNISHED AND INSTALLED BY THE WATER AGENCY OF JURISDICTION
5	50mm (2") BRONZE COMPRESSION COUPLING COPPER TO COPPER (IF REQUIRED)	11	METER BOX WITH LID, 425mm x 750mm (17"x 30")
6	50mm (2") BRONZE COMPRESSION ELL	12	CUSTOMER SHUT-OFF VALVE (LOCKABLE)

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-02		J. Tomasulo	10/04

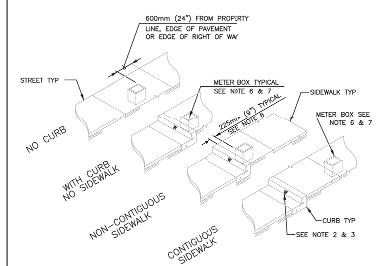
SAN DIEGO REGIONAL STANDARD DRAWING

50mm (2") WATER SERVICE INSTALLATION

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE 10/28/2004 Chairperson R.C.E. 19246 Date

DRAWING NUMBER WS-02

August 2009



NOTES:
1. REFER TO AGENCY SPECIFICATIONS WHERE APPLICABLE
2) STAMP OR CHISEL A 50mm (2") HIGH 'W' IN CURB FACE TO IDENTIFY POTABLE WATER SERVICE LOCATION
3) STAMP OR CHISEL A 50mm (2") HIGH 'RW' IN CURB FACE TO IDENTIFY RECYCLED WATER SERVICE LOCATION
4) METER BOXES ARE NOT TO BE INSTALLED IN DRIVEWAYS, SIDEWALKS OR WITHIN PAVED ROADWAYS
5) MULTIPLE METER BOXES SHALL BE INSTALLED WITH A MINIMUM OF 225mm (9") BETWEEN BOXES
6) METER BOX SHALL BE INSTALLED 225mm (9") FROM THE BACK OF BERM, CURB, OR SIDEWALK (TYP)
7) AN EASEMENT MAY BE NEEDED DEPENDING ON LOCATION OF METER BOX
8) METER BOXES INSTALLED FOR THE USE OF RECYCLED WATER SHALL BE IDENTIFIED AS DESCRIBED IN AGENCY'S SPECIFICATIONS
9) MATERIALS SHALL BE SELECTED FROM THE AGENCY'S APPROVED MATERIALS LIST

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Replaced W-15		J. Tomasulo	10/04

SAN DIEGO REGIONAL STANDARD DRAWING

METER BOX LOCATIONS FOR WATER AND RECYCLED WATER APPURTENANCES

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE 10/28/2004 Chairperson R.C.E. 19246 Date

DRAWING NUMBER WS-03

August 2009

DRAWING WP-01

NOTES Add: 8. "Electrically bond service tape and main tape together. Use only 6 inch tape at 4 inches below pavement section. Tape shall extend within meter box itself to allow markout by continuity tester."

DRAWING WP-02

NOTES 2. Delete and substitute with the following: "For trenching on improved streets see Standard Drawings SDG-107 and SDG-108 for resurfacing details."

DRAWING WS-01

NOTES Add: 10. "Bronze pipe saddles are required for all taps into polyvinyl cholcride (PVC) pipe. Top taps are not permitted."

ITEM NO. (4) Delete and substitute with the following: Use copper tubing type (K) soft for 1 inch services only. No intermediate joints permitted within the first 60 feet from the main. For lengths longer than 60 feet, use flare joint union or lok-pac fitting with locking clamp and stainless steel bolt only. No sweat joints are allowed.

(5) Delete and substitute with the following: "Bronze angle meter stop with locking device and meter coupling attached. "Furnish and install bronze property valve. Use spacer for motor."

DRAWING WS-02

NOTES: Add: 10. "Top taps not permitted. Any glue joint shall be beveled prior to assembly."

ITEM NO. (1) Delete and substitute with the following: "Size x 50mm (2") Bronze service saddle (double strap)".

SHT. 3 OF 4

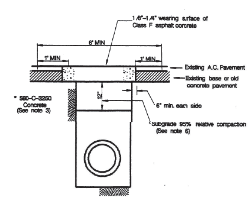
REVISION	BY	APPROVED	DATE
ORIGINAL		M. Rollinger	5-20-92
NOTES	JS	A. Oskoui	1206

CITY OF SAN DIEGO - STANDARD DRAWING

SUPPLEMENT TO REGIONAL STANDARD DRAWING ("W" SERIES)

CITY OF SAN DIEGO STANDARDS COMMITTEE 12/16/06 COORDINATOR R.C.E. 65271 DATE

DRAWING NUMBER SDW-100



NOTES:

1. Existing A.C. pavement shall be sawcut to a minimum depth of 1-1/2 inches or 25% of its thickness, whichever is greater, except lateral trenches in 2-lane residential streets may be jack-hammerd if approved by the Engineer. In case of an emergency endangering public safety or property, sawcutting is not required.
2. Prior to placing concrete, paving and base edges shall be trimmed to neat horizontal and vertical lines.
3. Unless otherwise specified, concrete trench cover shall be a minimum of 5-1/2 inches thick for alleys, 7 inches for local through four lane collector streets and 9 inches thick for all major or greater street classifications.
4. Only asphaltic type curing compound shall be used on the concrete trench cover. Pigmentation is not required.
5. A tack coat shall be applied to the existing A.C. pavement and concrete trench cover prior to placing the new A.C.
6. Subgrade preparation shall be done in accordance with Section 301-1 of the Standard Specifications for Public Works Construction; latest edition.
7. Any street trench 7 feet in width or greater and longer than 100 feet in overall length shall be reconstructed with the pavement section for the street classification per Schedule "J" (SDG-113). Street trench sections 7 feet in width or greater but less than 100 feet in overall length shall be resurfaced to a thickness of one inch (1") greater than required by note 3 above.

* In four-lane major or greater streets, an approved set accelerating admixture such as calcium chloride, shall be used in the concrete.

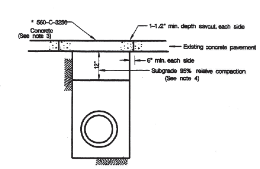
Revision	By	Approved	Date
ORIGINAL		J.P.Casey	1-24-89

CITY OF SAN DIEGO - STANDARD DRAWING

TRENCH RESURFACING FOR ASPHALT CONCRETE SURFACED STREETS

CITY OF SAN DIEGO STANDARDS COMMITTEE 2-7-95 COORDINATOR R.C.E. 25902 DATE

DRAWING NUMBER SDG-107



NOTES:

1. Removal of the existing concrete pavement for trench excavation shall be done in accordance with Section 300-1.3 of the Standard Specifications for Public Works Construction, latest edition.
2. Prior to placing concrete, pavement edges shall be trimmed to neat horizontal and vertical lines.
3. Unless otherwise specified, concrete trench cover shall be a minimum of 5-1/2 inches thick for alleys, 7 inches for local through four lane collector streets and 9 inches thick for all major or greater street classifications.
4. Subgrade preparation shall be done in accordance with Section 301-1 of the Standard Specifications for Public Works Constuction, latest edition.
5. Any street trench 7 feet in width or greater and longer than 100 feet in length shall be reconstructed with the pavement section for the street classification per Schedule "J" (SDG-113). Street trench sections 7 feet in width or greater but less than 100 feet in overall length shall be resurfaced to a thickness of one inch (1") greater than required by note 3 above.

* In four-lane major or greater streets, an approved set accelerating admixture such as calcium chloride, shall be used in the concrete.

FOR A STREET SURFACED WITH ASPHALT CONCRETE, SEE STANDARD DRAWING SDG-107.

Revision	By	Approved	Date
ORIGINAL		J.P.Casey	1-24-89

CITY OF SAN DIEGO - STANDARD DRAWING

TRENCH RESURFACING FOR PCC SURFACED STREETS

CITY OF SAN DIEGO STANDARDS COMMITTEE 2-7-95 COORDINATOR R.C.E. 25902 DATE

DRAWING NUMBER SDG-108

REGISTERED PROFESSIONAL ENGINEER V. ERIN SWEENEY NO. 56175 Expires 12/31/2012 CIVIL STATE OF CALIFORNIA

BergerABAM
FLORES LUND CONSULTANTS
7220 Trade Street, Suite 120
San Diego, CA 92121 (858) 566-0626

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

REPLACEMENT OF 2" WATER LATERAL TO ATC TOWER DETAILS

BROWN FIELD MUNICIPAL AIRPORT

SAN DIEGO, CA

REVIEWED BY | SUBMITTED BY | APPROVED BY

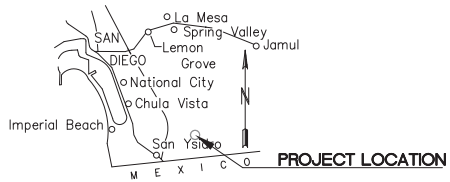
DESIGNED | ISSUED BY | DATE | JCN

DRAWN

CHECKED | DRAWING NO SDM-D-ATCT-C005 | REV

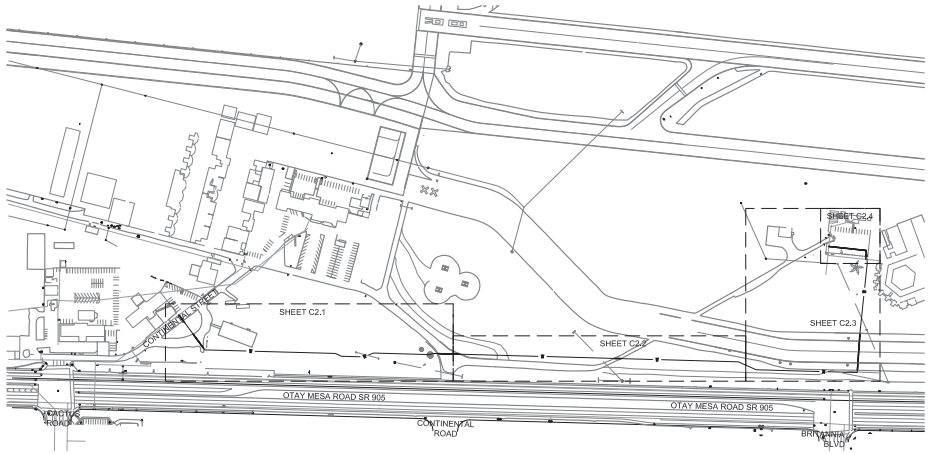
$FILES$ $DATE$ $TIME$ $NAME$

REPLACEMENT OF 2" WATER LATERAL TO AIR TRAFFIC CONTROL TOWER BROWN FIELD MUNICIPAL AIRPORT SAN DIEGO, CA



LOCATION MAP

(T.B. 1351–E1)
N.T.S.



GENERAL NOTES

1.	THE CONTRACTOR SHALL NOTIFY DIGALERT (1-800-227-2600) AT LEAST TWO DAYS PRIOR TO STARTING WORK AND SHALL ARRANGE FOR AND COORDINATE SHUT DOWN, DISCONNECTION AND CAPPING OF EXISTING UTILITIES WITH THE APPROPRIATE UTILITY OWNERS PRIOR TO COMMENCING THE WORK.
2.	PROTECT IN PLACE ALL EXISTING IMPROVEMENTS, STRUCTURES AND UNDERGROUND UTILITIES WHICH ARE TO REMAIN. MAINTAIN UTILITY SERVICES TO ALL EXISTING FACILITIES AT ALL TIMES, UNLESS OTHERWISE SPECIFIED.
3.	THE LOCATION AND EXISTENCE OF EXISTING UNDERGROUND FACILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SEARCH OF AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT POINTS OF CONNECTIONS AND ALL UTILITY CROSSINGS TO DETERMINE EXACT LOCATION PRIOR TO STARTING ANY WORK.
4.	COORDINATE LOCATION OF ALL UNDERGROUND UTILITIES AND STORM DRAINS WITH NEW TREE LOCATIONS, MECHANICAL/ELECTRICAL FACILITIES, AND OTHER INSTALLATIONS. REFER TO LANDSCAPE, PLUMBING, ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5.	ALL EXISTING "DRY" UTILITIES SHOWN HEREON ARE FOR INFORMATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS AND APPROPRIATE UTILITY COMPANY PLANS FOR ANY WORK ON OR WITH THESE UTILITIES.
6.	REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GENERAL LEGEND

EXISTING

ITEM	STANDARD DWGS.	SYMBOL
PROPERTY LINE		
EXISTING CONTOUR		459
EXISTING DEPRESSION		
EXISTING TREE		
EXISTING BRUSH		
EXISTING FENCE		X
EXISTING BUILDING		
EXISTING CONCRETE		
EXISTING CURB AND GUTTER		
EXISTING CURB		
EXISTING SPOT ELEVATION		X 65.40
EXISTING STORM DRAIN CLEANOUT		SD SD
EXISTING STORM DRAIN		SD
EXISTING SEWER LINE		S
EXISTING SEWER CLEANOUT		S
EXISTING WATER SERVICE & METER		W
EXISTING WATER MAIN		W
EXISTING FIRE HYDRANT		FH
EXISTING STREET LIGHT		
EXISTING UTILITY BOX		

PROPOSED

CONCRETE PAVING	
ASPHALT PAVING	
WATER SERVICE & METER	W
WATER LATERAL (2")	W

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY
IS THE LINE BETWEEN GPS POINT #1 AND GPS POINT#189
PER ROS 14492
I.E. N 89°06'48" E 4220.87'

BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS
GPS POINT # 1
PER ROS 14492
ELEV=512.29 NGVD 29

MELCHIOR LAND SURVEYING, INC
5731 PALMER WAY, SUITE G L.S. 4611
CARLSBAD, CALIFORNIA 92010
(760) 438-1726 FAX (760) 438-3991
JN 3349.DWG DATE 02/17/2012

REGIONAL STANDARD DRAWINGS, 2006

WP-02	PIPE BEDDING AND TRENCH BACKFILL FOR POTABLE AND RECYCLED WATER MAINS
WS-02	2" WATER SERVICE INSTALLATION
WS-03	METER BOX LOCATIONS FOR WATER AND RECYCLED WATER APPURTANANCES

INDEX OF SHEETS

SHEET NO.	
SDM-D-ATCT-G001	COVER SHEET
SDM-D-ATCT-C001	WATER PLAN
SDM-D-ATCT-C002	WATER PLAN
SDM-D-ATCT-C003	WATER PLAN
SDM-D-ATCT-C004	FAA-WATER PLAN
SDM-D-ATCT-C005	DETAIL SHEET
SDM-D-ATCT-C006	CONSTRUCTION PERMIT

GRAPHIC SCALE
200 0 200 400
(IN FEET)
1 INCH = 200 FT

REGISTERED PROFESSIONAL ENGINEER ERIN SWEENY NO. 56175 Expires 12/31/2012 CIVIL STATE OF CALIFORNIA

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REVIEWED BY	SUBMITTED BY	APPROVED BY
	DESIGNED / ISSUED BY	DATE / JCN
	DRAWN	DRAWING NO: SDM-D-ATCT-G001 / REV
	CHECKED	

BFLESS BSAVES BTIMES BNAMES