ABBREVIATIONS

APPROX	APPROXIMATE	TELCO	TELECOMMUNICATIONS
AVG	AVERAGE	TC	TOP OF CURB
ASPH	ASPHALT	TMH	TELECOMMUNICATIONS MANHOLE
BOD	BOTTOM OF DUCT BANK	TOD	TOP OF DIKE
BOT	BOTTOM	TW	TOP OF WALL
BLRD	BOLLARD	TYP	TYPICAL
BLDG	BUILDING	TSD	TEMPORARY SLOPE DRAIN
BM	BENCHMARK	UG	UNDERGROUND
BRG	BEARING	UTIL	UTILITY
BW	BOTTOM OF WALL	VERT	VERTICAL
CB	CATCH BASIN	VB	VERTICAL BEND
C&G	CURB AND GUTTER	W	WEST/WATER
CI	CURB INLET	W/	WITH
CIP	CURB INLET PROTECTION	WM	WATER METER
CJ	CONSTRUCTION JOINT	W/O	WITHOUT
CL C/L	CENTERLINE	WT	WEIGHT
CO	CLEANOUT	WV	WATER VALVE
CONC	CONCRETE	WWF	WELDED WIRE FABRIC
CONN	CONNECTION		
CONST	CONSTRUCTION		
CONT	CONTINUE, CONTINUATION		
COR	CONTRACTING OFFICER REPRESENTATIVE		
CP	CAMERA POLE		
CTR	CENTER		
DEG	DEGREE		
DEMO	DEMOLITION		
DET	DETAIL		
DIA	DIAMETER		
DIM	DIMENSION		
DIP	DROP INLET PROTECTION		
DIP	DUCTILE IRON PIPE		
DN	DOWN		
DWG	DRAWING		
E	EAST		
EA	EACH		
ED	EARTH DIKE		
EJ	EXPANSION JOINT		
EL/ELEV	ELEVATION		
EMH	ELECTRIC MANHOLE		
EP	EDGE OF PAVEMENT		
EQ	EQUAL		
EW	EACH WAY		
EX/EXIST	EXISTING		
EXP	EXPANSION		
FDC	FIRE DEPARTMENT CONNECTION		
FH	FIRE HYDRANT		
FIN	FINISH		
FOR	FUEL OIL RETURN		
FOS	FUEL OIL SUPPLY		
FRP	FIBERGLASS REINFORCED PIPE		
FT	FOOT, FEET		
FTG	FOOTING		
G	GAS		
GAL	GALLON		
GMH	GAS MANHOLE		
GV	GATE VALVE		
HH	HANDHOLE		
HB	HORIZONTAL BEND		
HGT	HEIGHT		
HORIZ	HORIZONTAL		
HR	HOUR		
ID	INSIDE DIAMETER		
IN	INCH		
INV	INVERT		
IP	INLET PROTECTION		
IPS	IRON PIPE SET		
JT	JOINT		
L	LENGTH		
LF	LINEAR FEET		
LP	LIGHT POLE		
MAT	MATERIAL		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
N	NORTH		
NIC	NOT IN CONTRACT		
NO	NUMBER		
NTS	NOT TO SCALE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OHE	OVERHEAD ELECTRIC		
OP	OUTLET PROTECTION		
PE	POLYETHYLENE PIPE		
PP	POWER POLE		
POB	POINT OF BEGINNING		
PL	POINT OF CONNECTION		
PL	PROPERTY LINE		
PVC	POLYVINYL CHLORIDE PIPE		
PVMT	PAVEMENT		
QTY	QUANTITY		
R	RADIUS		
RCP	REINFORCED CONCRETE PIPE		
REF	REFERENCE		
REINF	REINFORCEMENT		
REQ'D	REQUIRED		
S	SOUTH		
SAN	SANITARY SEWER		
SB	STRAW BALES		
SCE	STABILIZED CONSTRUCTION ENTRANCE		
SCHED	SCHEDULE		
SF	SILT FENCE		
TD	TRENCH DRAIN		

LEGEND

	EXISTING	PROPOSED
ASPHALT PAVEMENT REMOVAL		
SIDEWALK/CONCRETE STEP REMOVAL		
BUILDING REMOVAL		
AT GRADE FEATURE REMOVAL		
UNDERGROUND UTILITY LINE REMOVAL		
AT GRADE SITE FEATURE REMOVAL		X
CURB INLET PROTECTION		CIP
DROP INLET PROTECTION		DIP
SILT FENCE		SF
TREE PROTECTION		TP
LIMIT OF DISTURBANCE		
STABILIZED CONSTRUCTION ENTRANCE		
BUILDING		
ASPHALT PAVEMENT		
CONCRETE SIDEWALK/ISLAND		
CONCRETE CURB		
CONCRETE CURB & GUTTER		
HANDICAP CURB RAMP		
CHAIN-LINK FENCE		
DOUBLE SWING GATE		
VERTICAL LIFT GATE		
IRON FENCE		
I-BEAM CABLE FENCE		
WALL		
TREES		
LIGHT POLE FOUNDATION		LP
CAMERA TOWER FOUNDATION		CT
CONCRETE BOLLARD		
SIGN		
CURB INLET		CB
DROP INLET		CB
GRATE INLET		CB
STORM MANHOLE		MH
MINOR CONTOUR		94
MAJOR CONTOUR	5390	95
SPOT ELEVATION		91.9
STORM SEWER	ST	SD
FIRE HYDRANT		
WATER VALVE		
WATER LINE	W	W
SANITARY MANHOLE		
CLEANOUT		CO
SANITARY SEWER	SS	SS
ELECTRIC MANHOLE		
ELECTRICAL LINE	E	E
TELEPHONE PEDESTAL		
TELECOMMUNICATIONS MANHOLE		
TELECOMMUNICATIONS LINE	PH	T
WATER SPICKET		
IRRIGATION CONTROL BOX		
IRRIGATION LINE	IRR	
GAS METER		

	EXISTING	PROPOSED
GAS VALVE		
GAS LINE	G	
FIBER OPTIC MANHOLE		
FIBER OPTIC LINE	F/O	

GENERAL NOTES

GENERAL NOTES

1. EXISTING SITE INFORMATION WAS COMPILED FROM RECORD DRAWINGS PROVIDED BY THE FAA AND A TOPOGRAPHIC FIELD SURVEY PERFORMED BY R&R ENGINEERS-SURVEYORS, INC., DATED 03-17-2008.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. HORIZONTAL & VERTICAL DATUM INFORMATION BASED ON ESTABLISHED DENVER INTERNATIONAL AIRPORT SURVEY CONTROL MONUMENTS.

SITE REMOVAL NOTES

1. CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN AS NECESSARY DURING CONSTRUCTION.

SITE CONSTRUCTION NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY FENCING TO ENSURE THAT A SECURE PERIMETER IS MAINTAINED AT ALL TIMES.
2. CONTRACTOR TO INSTALL NEW FENCE AND POSTS SO AS TO NOT DISTURB OR UNDERMINE EXISTING UTILITIES.
3. FOR PROPOSED FENCE CONNECTION TO EXISTING FENCE, PROVIDE END POSTS WITH A MAXIMUM OF 2 INCHES OF SEPARATION FROM EXISTING POSTS.
4. FOR PROPOSED FENCE, PROVIDE END POSTS WITH A MAXIMUM OF 4 INCHES OF SEPARATION FROM PROPOSED GUARDHOUSE.
5. SAWCUT FULL DEPTH OF SURFACES TO BE PARTIALLY DEMOLISHED OR REMOVED.
6. UNLESS OTHERWISE REQUIRED BY APPLICABLE PERMIT OR AGENCY, OR UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL RESTORE DISTURBED AREAS (TO MEET OR EXCEED EXISTING CONDITIONS).
7. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF APPLICABLE REGULATING AGENCIES FOR EROSION AND SEDIMENTATION CONTROL. OBTAIN NECESSARY PERMIT(S) PRIOR TO COMMENCING WITH CONSTRUCTION.
8. PAVEMENT MARKINGS SHALL BE PAINTED PER SPECIFICATIONS AND AS INDICATED BELOW:
   A. PARKING SPACE MARKINGS SHALL BE 4 INCH WIDE WHITE LINES.
   B. AREAS DESIGNATED AS NO PARKING SHALL BE 6 INCH WIDE YELLOW LINES LOCATED AS INDICATED ON THE PLANS. THE NO PARKING AREAS SHALL BE MARKED WITH 6 INCH WIDE YELLOW DIAGONAL LINES AT A 45° ANGLE AND SPACED 8.5 INCHES APART.
   C. CROSSWALK LINES SHALL BE 6 INCH WIDE WHITE LINES SPACED 6 FEET APART. THE CROSSWALK SHALL BE MARKED WITH 12 INCH WIDE WHITE DIAGONAL LINES AT A 45° ANGLE FROM THE CROSSWALK LINES AND SPACED 12 INCHES APART.

GRADING NOTES

1. CONTOUR INTERVAL IS ONE FOOT (1').
2. NEW SPOT ELEVATIONS INDICATE FINISHED GRADE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. FINAL SLOPES SHALL BE UNIFORM BETWEEN INDICATED ELEVATIONS.
4. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM GUARDHOUSE.

UTILITY NOTES

1. UNDERGROUND FACILITIES AND UTILITIES HAVE BEEN SHOWN BASED ON RECORD DRAWINGS AND VISIBLE EVIDENCE FOUND. NO WARRANTY IS MADE REGARDING THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF UNDERGROUND FACILITIES AND UTILITIES, AND PRESERVE SAME FROM DAMAGE. COMPLY WITH UTILITY LOCATION LAWS. CALL "UTILITY NOTIFICATION CENTER OF COLORADO" AT 1-800-922-1987 AT LEAST TWO DAYS PRIOR TO DIGGING. CONTRACTOR MUST IMMEDIATELY REPAIR EXISTING UNDERGROUND UTILITIES DAMAGED BY CONSTRUCTION OPERATIONS WITHOUT COST TO THE GOVERNMENT/OWNER. REPAIR WORK MUST BE COMPLETED IMMEDIATELY TO THE SATISFACTION OF THE COTR AND/OR UTILITY COMPANY
2. CONTRACTOR SHALL PAY ANY AND ALL DAMAGES ASSOCIATED WITH CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND FACILITIES AND UTILITIES.
3. OBTAIN REQUIRED PERMITS AND APPROVALS, AND PAY REQUIRED FEES. COMPLY WITH APPLICABLE REQUIREMENTS AND CODES OF GOVERNING AGENCIES.
4. MAKE NECESSARY ARRANGEMENTS WITH UTILITIES FOR SERVICE CONNECTIONS TO BE MADE. PERFORM NECESSARY PREPARATORY WORK AND EXCAVATION REQUIRED TO ALLOW SERVICE CONNECTIONS TO BE MADE. RESTORE DISTURBED SURFACES AS REQUIRED.
5. INSTALL UTILITIES AT UNIFORM SLOPES BETWEEN ELEVATIONS SHOWN.
6. CONTRACTOR SHALL VACUUM EXTRACT TEST PITS PRIOR TO CONSTRUCTION TO VERIFY EXISTING UTILITY LOCATIONS AND DEPTHS. HAND DIG AREAS AS DIRECTED BY COTR. CONTRACTOR SHALL NOTIFY COTR OF ANY ISSUES THAT WOULD PROHIBIT THE INSTALLATION OF EITHER SERVICE WITHIN THE PARAMETERS SET FORTH ON THESE PLANS.
7. CONTRACTOR SHALL MAINTAIN A MINIMUM SLOPE OF 1.0% ON THE GRAVITY SANITARY SEWER.
8. CONTRACTOR SHALL CONSTRUCT SANITARY SEWER FROM IT'S MOST DOWNSTREAM POINT AND WORK UPSTREAM.
9. CONTRACTOR TO PROVIDE NECESSARY ADAPTORS FOR CHANGES IN PIPE MATERIALS OR SIZES.
10. CONTRACTOR SHALL PATCH AND REPAIR PAVEMENT THAT IS DAMAGED OR REMOVED AS A RESULT OF CONSTRUCTING UTILITIES.
11. MINIMUM COVER ON WATERLINE SHALL BE 5'

SENSITIVE SECURITY INFORMATION

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JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	REQUIRE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS — WESTERN SERVICE AREA

TRACON

SECURITY SYSTEM MODERNIZATION & UPGRADE
CIVIL ABBREVIATIONS, LEGEND AND GENERAL NOTES

DENVER — DENVER INTERNATIONAL AIRPORT — CO

REVIEWED BY — SUBMITTED BY: PROJECT ENGINEER — APPROVED BY: MGR: ENGR'G - SEATTLE

DESIGNED — ISSUED BY: ENGINEERING SERVICES INFRASTRUCTURE — DATE: 5/9/2011 — JCN: 1000625

DRAWN — DRAWING NO: DEN-1000625-C001 — REV:

CHECKED

DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION

GENERAL SHEET NOTES:

1. SEE ELECTRICAL DRAWING SHEET E101 FOR UNDERGROUND ELECTRICAL LINE DEMOLITION INFORMATION.
2. CONTRACTOR IS TO REMOVE ALL WATER SPICKETS WITHIN LIMIT OF DISTURBANCE AND CAP IRRIGATION LINE BELOW GRADE. CONTRACTOR TO ENSURE IRRIGATION SYSTEM IS STILL OPERATIONAL AFTER CONSTRUCTION.

STORM INLET
RIM=5385.11'
(SW)18"RCP=5385.11'
(NE)=18"RCP UNABLE TO MEASURE

DRAIN

STORM INLET
RIM=5388.84'
(E)INV IN 15"PVC=UNABLE TO MEASURE
(SE)INV IN 12"PVC=5384.75'
(W)INV OUT 15"PVC=UNABLE TO MEASURE
BOTTOM OF BOX=5384.54'

SANITARY MANHOLE
RIM=5386.02'
(SE)INV IN=5378.66'
(NE)INV OUT=5378.53'

STORM INLET
RIM=5389.83'
(NE)INV IN 12"PVC UNABLE TO MEASURE
(SE)INV IN 16"RCP=5384.45'
(E)INV IN 18"RCP=5384.65'
(W)INV OUT 21"RCP=5384.45'

STORM INLET
RIM=5389.46'
(N)INV IN 12"PVC=5384.39'
(N)INV IN 12"PVC=5384.40'
(E)INV IN 21"RCP=5383.51'
(W)INV OUT 21"RCP=5383.45'

STORM INLET
RIM=5384.83'
(E)INV IN 21"RCP
(S)INV OUT 21"RCP
BOTTOM OF BOX=5380.38'

BUILDING COLUMNS (TYP)

STORM MANHOLE
RIM=5385.69'
(N)INV IN 12"PVC=5385.69'
(NE)INV IN 18"RCP=5384.42'
(W)INV OUT 18"RCP=5384.48'

STORM INLET
RIM=5388.79'
(NE)INV IN 12"PVC=5384.85'
(SE)INV IN 15"RCP=5384.67'
(SW)INV OUT 18"RCP=5384.63'

DENVER WATERLINE

ASPHALT

IRRIGATION

GUARD SHACK
FF=5393.8'

JERSEY BARRIER

BORE HOLE
DEPTH=15'

CATHODIC TEST POLE

SIGN POSTS

GRAVEL

STORM INLET
RIM=5389.58'
(N)INV OUT 15"RCP=5384.65'
BOTTOM OF BOX=5386.18'

STORM INLET
RIM=5392.89'
(N)INV OUT 15"RCP=5388.52'

STORM INLET
(SW)INV IN 15"RCP=5383.40'
(W)INV OUT 15"RCP=5383.42'

FEDERAL AVIATION ADMINISTRATION TECHNICAL OPERATIONS CENTER 26805 E. 68TH AVENUE

TORNADO SIREN

REMOVE IRON FENCE
REMOVE CATCH BASIN (TYP. OF 2)
LIMIT OF CONCRETE CURB & GUTTER REMOVAL
LIMIT OF FENCE REMOVAL
LIMIT OF CONCRETE CURB & GUTTER REMOVAL
LIMIT OF ASPHALT PAVEMENT REMOVAL
LIMIT OF CONCRETE CURB & GUTTER REMOVAL
REMOVE CONCRETE STEPS
LIMIT OF CONCRETE CURB & GUTTER REMOVAL
LIMIT OF ASPHALT PAVEMENT REMOVAL
REMOVE IRRIGATION CONTROL BOX (TYP.)
REMOVE CONCRETE CURB & GUTTER
REMOVE STORM SEWER & CAP AT LIMITS OF REMOVAL
REMOVE CHAIN LINK FENCE & SWING GATES
LIMIT OF ASPHALT PAVEMENT REMOVAL
LIMIT OF CONCRETE CURB & GUTTER REMOVAL
LIMIT OF FENCE REMOVAL
REMOVE ASPHALT PAVEMENT (TYP.)
LIMITS OF CONCRETE CURB & GUTTER REMOVAL
REMOVE 15" RCP STORM SEWER
REMOVE 1" Cu WATER LINE
REMOVE 4" DIP SAN. SEWER & CLEANOUT
ASPHALT PAVEMENT REMOVAL, 5" THICK (TYP.)
REMOVE & RELOCATE FIRE HYDRANT
REMOVE 6" WATERLINE AND CAP AT LIMITS OF REMOVAL
REMOVE CATCH BASIN
LIMIT OF CONCRETE CURB & GUTTER REMOVAL
LIMIT OF ASPHALT PAVEMENT REMOVAL
REMOVE CONCRETE CURB & GUTTER (TYP.)
REMOVE ELECTRICAL HANDHOLE
REMOVE BOLLARDS & FOUNDATIONS (TYP.)
REMOVE SIGN
REMOVE CONCRETE FACILITY SIGN & FOUNDATION
REMOVE CONCRETE CURB & GUTTER
REMOVE WATER SPICKET (TYP., SEE NOTE 2)
LIMIT OF CONCRETE CURB AND GUTTER REMOVAL
LIMIT OF ASPHALT PAVEMENT REMOVAL
LIMIT OF CONCRETE CURB & GUTTER REMOVAL
REMOVE CONCRETE CURB & GUTTER (TYP.)
LIMIT OF FENCE REMOVAL
REMOVE GUARD HOUSE IN IT'S ENTIRETY
REMOVE CONCRETE ISLAND
RELOCATE FLAGPOLE (SEE SHEET C201)
REMOVE CONCRETE BARRIER
REMOVE SIGN POSTS & CONCRETE FOUNDATIONS
REMOVE CONCRETE BARRIER
LIMIT OF CONCRETE CURB & GUTTER REMOVAL
REMOVE LIGHTPOLE FOUNDATION (TYP. OF 11, SEE ELECTRICAL SHEET E101)
REMOVE CONCRETE CURB & GUTTER
REMOVE TREE (TYP.)
REMOVE CONCRETE CURB & GUTTER
REMOVE SIGN (TYP.)

20' 10' 0 20' 40'
1" = 20'-0"

KEY PLAN

N
KEY NORTH

SENSITIVE SECURITY INFORMATION

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JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	REQUIRE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

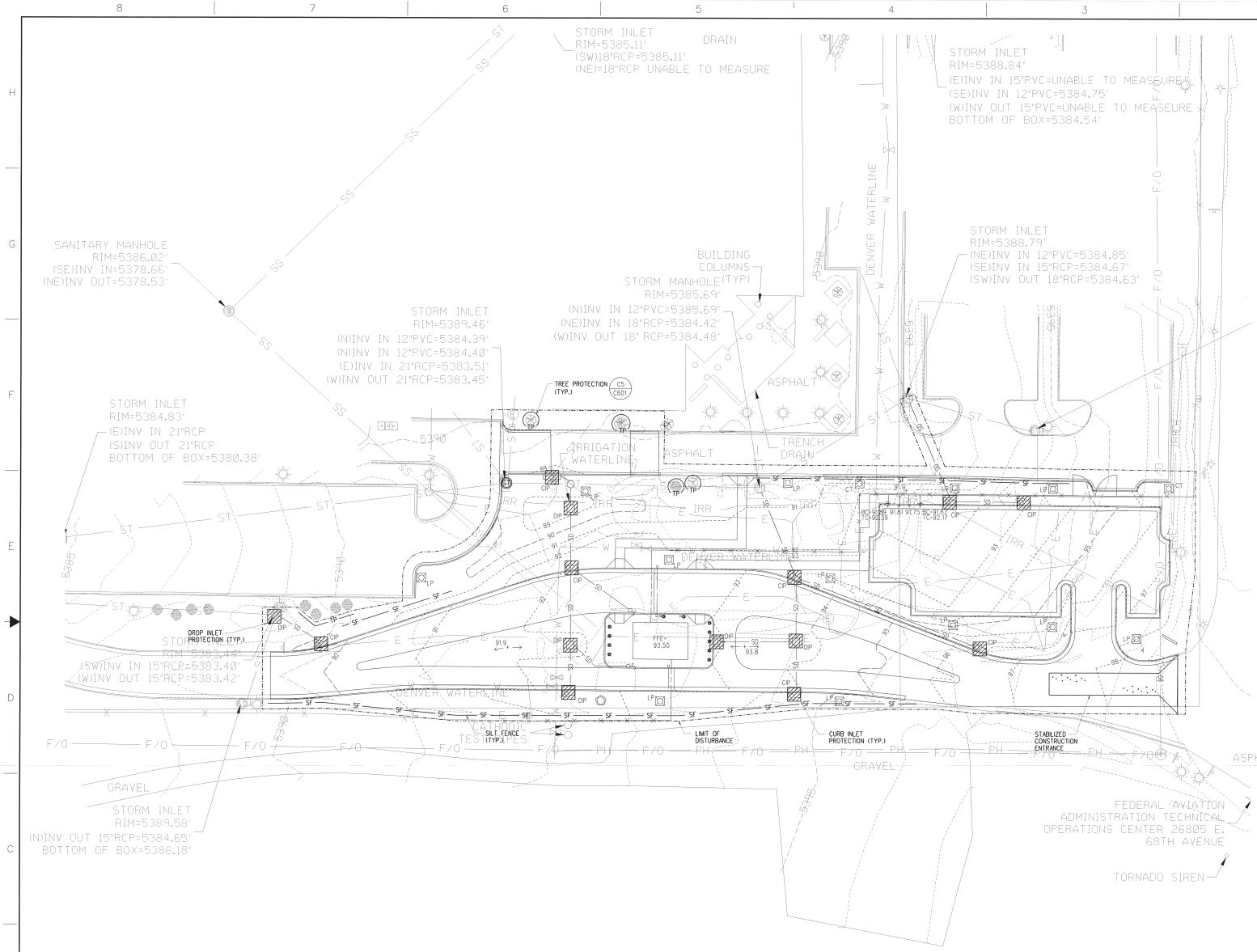
TRACON
SECURITY SYSTEM MODERNIZATION & UPGRADE
SITE REMOVAL PLAN

DENVER DENVER INTERNATIONAL AIRPORT CO

REVIEWED BY: SUBMITTED BY: APPROVED BY:
PROJECT ENGINEER MGR: ENGR'G - SEATTLE
DESIGNED: ISSUED BY: DATE 5/8/2011 JCN 1000625
DRAWN: ENGINEERING SERVICES INFRASTRUCTURE DRAWING NO. REV
CHECKED: DEN-1000625-C101

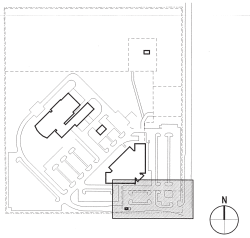
DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION



GENERAL SHEET NOTES:

1. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO CONSTRUCTION.
2. ALL CURB INLET PROTECTION SHALL BE STORM DRAIN INLET PROTECTION TYPE R, AS PER COLORADO DOT STANDARD PLAN • M-208-1.
3. ALL DROP INLET PROTECTION SHALL BE INLET EROSION BALE FILTER PROTECTION TYPE C, AS PER COLORADO DOT STANDARD PLAN • M-208-1.
4. ALL SILT FENCE SHALL BE AS PER COLORADO DOT STANDARD PLAN • M-208-1.
5. STABILIZED CONSTRUCTION ENTRANCE SHALL BE AS PER COLORADO DOT STANDARD PLAN • M-208-1.
6. PROVIDE INLET PROTECTION ON ALL EXISTING INLETS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO CONSTRUCTION.
7. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY ADDITIONAL MEAUSURES THAT MAY BE NECESSARY TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE CONSTRUCTION AREA AND ENTERING THE STORM SYSTEM.



KEY PLAN

SENSITIVE SECURITY INFORMATION

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20' 10' 0 20' 40'
1" = 20'-0"

JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

TRACON

SECURITY SYSTEM MODERNIZATION & UPGRADE
EROSION & SEDIMENT CONTROL PLAN

DENVER DENVER INTERNATIONAL AIRPORT CO

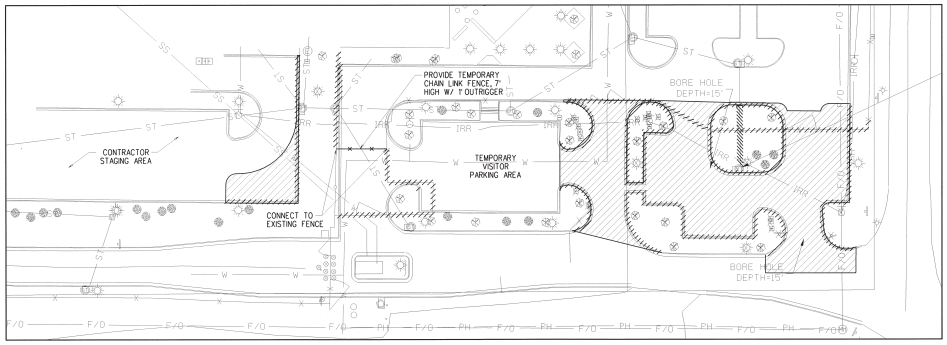
REVIEWED BY	SUBMITTED BY	APPROVED BY
	PROJECT ENGINEER	MGR: ENGRG - SEATTLE
	DESIGNED	DATE 5/9/2011 JCN 1000625
	DRAWN ENGINEERING SERVICES INFRASTRUCTURE	DRAWING NO. DEN-1000625-C102 REV
	CHECKED	

DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION

GENERAL SHEET NOTES:

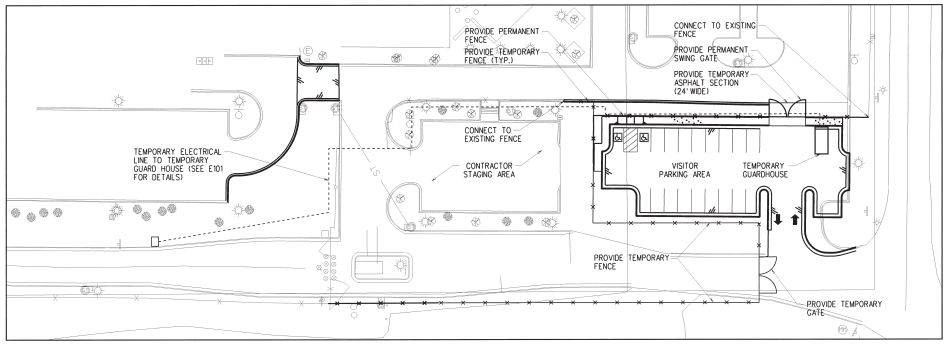
1. TEMPORARY ELECTRICAL SERVICE IS CONCEPTUAL IN NATURE. CONTRACTOR TO COORDINATE EXACT ROUTING W/ COTR.
2. ADDITIONAL CONTRACTOR PARKING IS AVAILABLE TO THE SOUTH OF MAIN ENTRANCE IN THE "MILLINGS/GRAVEL AREA".
3. THE CONTRACTOR SHALL MAINTAIN 24/7 ACCESS TO THE SITE FOR FAA EMPLOYEES AND FAA DELIVERIES.
4. A SEPARATE AREA SHALL BE SET ASIDE TO ALLOW GUARDS TO PERFORM SECURITY SURVEY OF DELIVERY VEHICLES DURING CONSTRUCTION.



PHASE 1A

PHASE 1A:

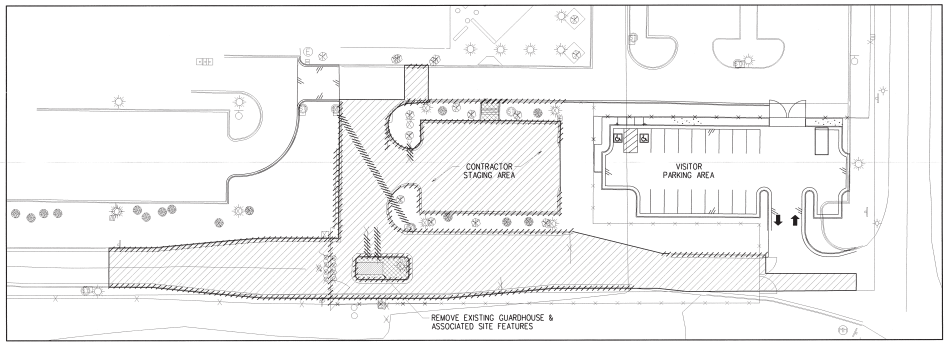
1. DEMOLISH EXISTING ASPHALT & CURB AS INDICATED TO CONSTRUCT TEMPORARY GUARDHOUSE, VISITOR PARKING AREA, AND ACCESS ROAD TO TOC.
2. DEMOLISH EXISTING FENCE AS INDICATED TO PROVIDE ACCESS TO TEMPORARY VISITOR PARKING & PROVIDE TEMPORARY FENCE.



PHASE 1B

PHASE 1B:

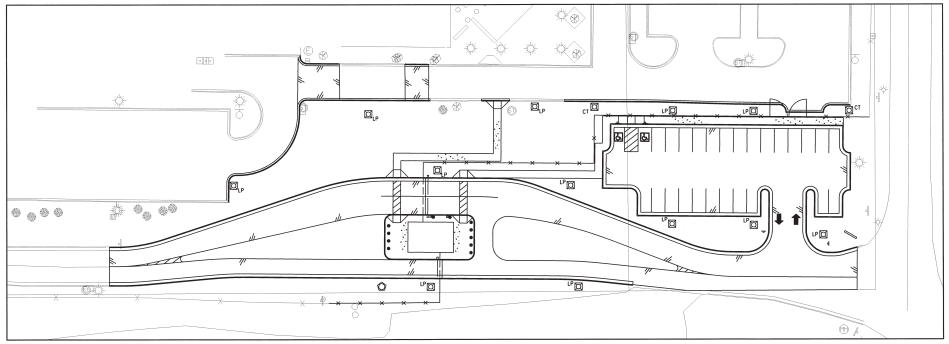
3. CONSTRUCT TEMPORARY GUARDHOUSE, VISITOR PARKING AREA, AND ACCESS ROAD TO TOC.
4. PROVIDE TEMPORARY POWER TO TEMPORARY GUARDHOUSE (SEE NOTE 1).
5. PROVIDE TEMPORARY FENCE AND GATE AS INDICATED TO MAINTAIN SECURE PERIMETER.



PHASE 2A

PHASE 2A:

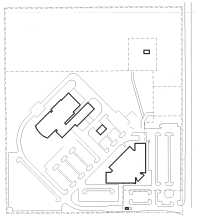
6. REMOVE EXISTING GUARDHOUSE, ASPHALT, CURB, AND SIDEWALK AS INDICATED TO CONSTRUCT FINAL SITE FEATURES.



PHASE 2B

PHASE 2B:

7. CONSTRUCT ALL REMAINING ITEMS AS PER FINAL LAYOUT.



KEY PLAN

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30' 15' 0 30' 60'
1" = 30'-0"

JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JON	REQUIRE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

TRACON
SECURITY SYSTEM MODERNIZATION & UPGRADE
CONSTRUCTION PHASING PLAN

DENVER DENVER INTERNATIONAL AIRPORT CO

REVIEWED BY	SUBMITTED BY	APPROVED BY
	PROJECT ENGINEER	MGR: ENGRG - SEATTLE
DESIGNED	ISSUED BY	DATE 5/9/2011 JON 1000625
DRAWN	ENGINEERING SERVICES INFRASTRUCTURE	DRAWING NO. DEN-1000625-C103 REV
CHECKED		

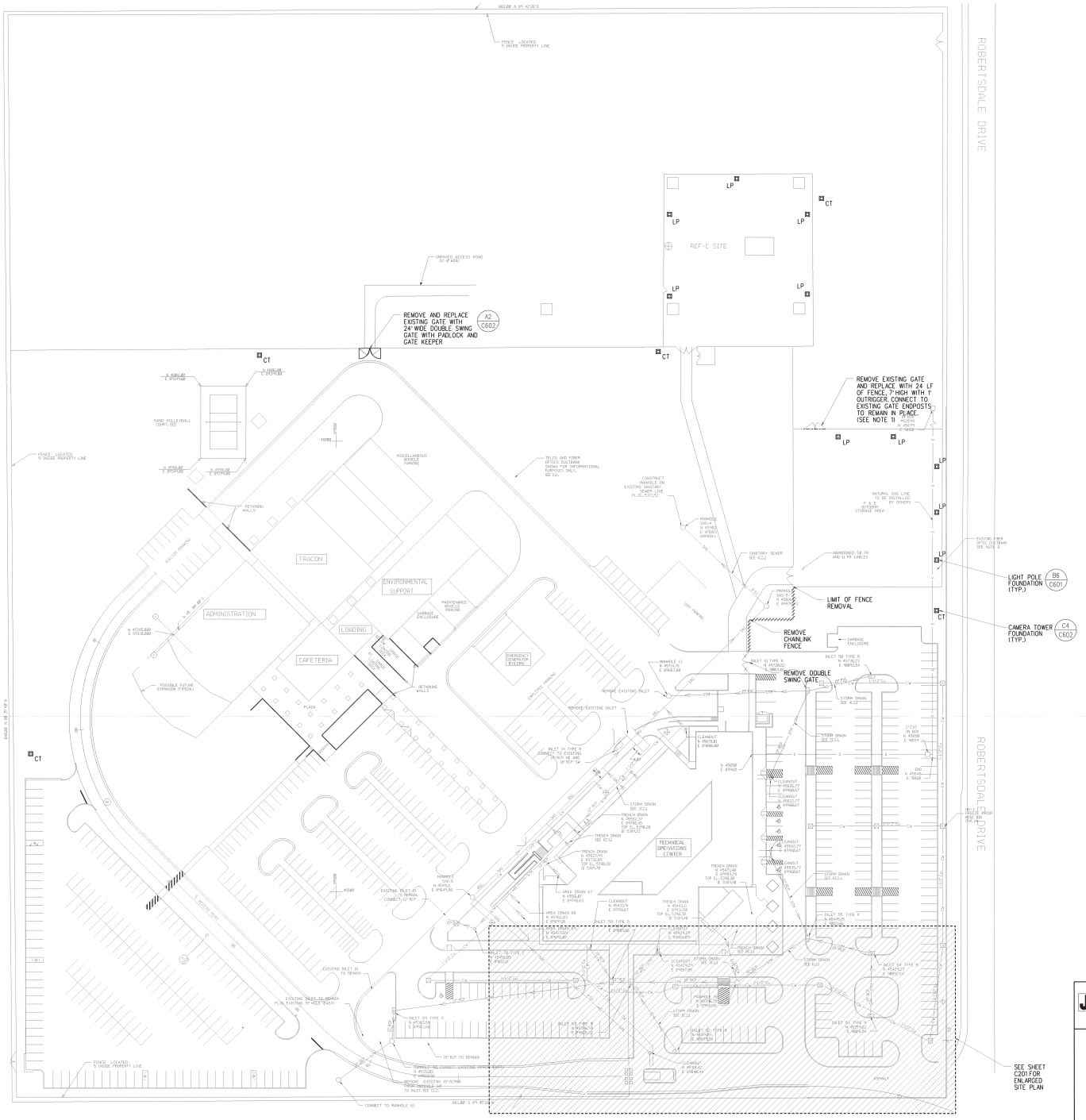
DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION

FILE: DEN-1000625-C103.dgn

GENERAL SHEET NOTES:

1. REMOVE SWING GATES BETWEEN END POSTS & STRETCH NEW FENCE FABRIC ACROSS OPENING. PROVIDE NEW LINEPOSTS W/ A MAXIMUM SPACING OF 10'O.C.
2. CONTRACTOR TO INSTALL "NO TRESPASSING" SIGNS (12"x15") ALONG PERIMETER FENCE @ 50' INTERVALS. SIGNS TO BE FURNISHED BY FAA. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF SIGNS W/ COTR.



SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	REQUIRE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

TRACON

SECURITY SYSTEM MODERNIZATION & UPGRADE
OVERALL SITE LAYOUT PLAN

DENVER DENVER INTERNATIONAL AIRPORT CO

REVIEWED BY: SUBMITTED BY: PROJECT ENGINEER
APPROVED BY: MGR: ENGR'G - SEATTLE
DESIGNED
DRAWN
CHECKED
ISSUED BY: ENGINEERING SERVICES INFRASTRUCTURE
DATE: 5/9/2011 JCN: 1000625
DRAWING NO: DEN-1000625-C200
REV:

DENVER TRACON
DENVER
COLORADO

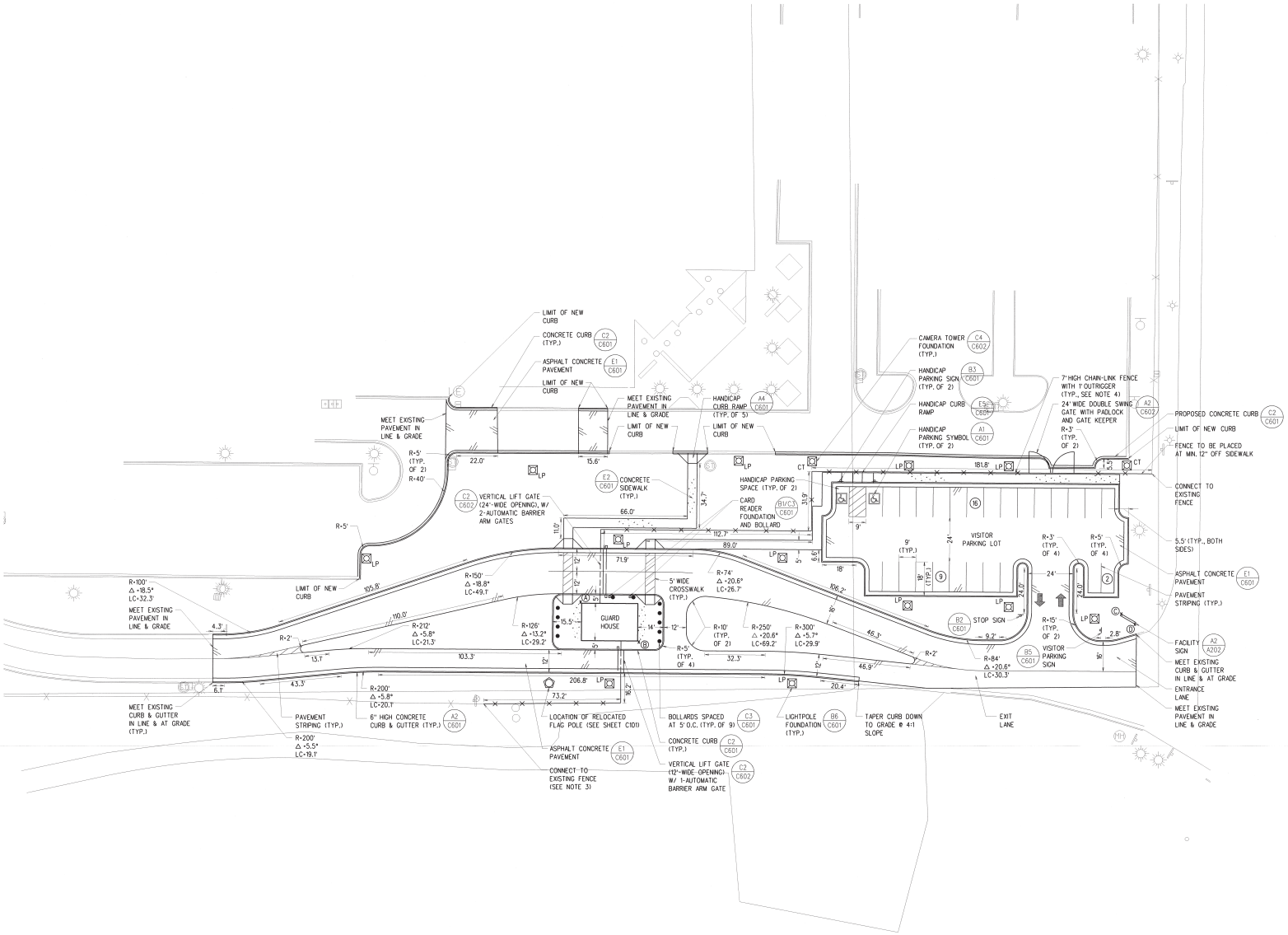
ISSUED FOR CONSTRUCTION

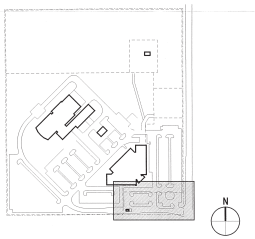
1" = 40'-0"

GENERAL SHEET NOTES:

1. FOR LEGEND AND ABBREVIATIONS SEE DRAWING C001.
2. SEE ARCHITECTURAL DRAWINGS FOR GUARD HOUSE PLANS.
3. FAA TO COORDINATE INSTALLATION OF CHAIN-LINK FENCE WITH ADJACENT PROPERTY OWNER.
4. CHAIN-LINK FENCE SHALL BE AS PER COLORADO DOT STANDARD PLAN * M-607-2.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, SIGNED & SEALED BY A LICENSED ENGINEER IN THE STATE OF COLORADO, FOR RELOCATED FLAG POLE FOUNDATION.

COORDINATE TABLE		
POINT	NORTHING	EASTING
A	4228.7	10352.2
B	4208.4	10382.1
C	4222.6	10640.6
D	4217.2	10647.9





KEY PLAN

KEY NORTH

20' 10' 0 20' 40'
1" = 20'-0"

SENSITIVE SECURITY INFORMATION

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JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	REQUIRE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

TRACON
SECURITY SYSTEM MODERNIZATION & UPGRADE
SITE LAYOUT PLAN

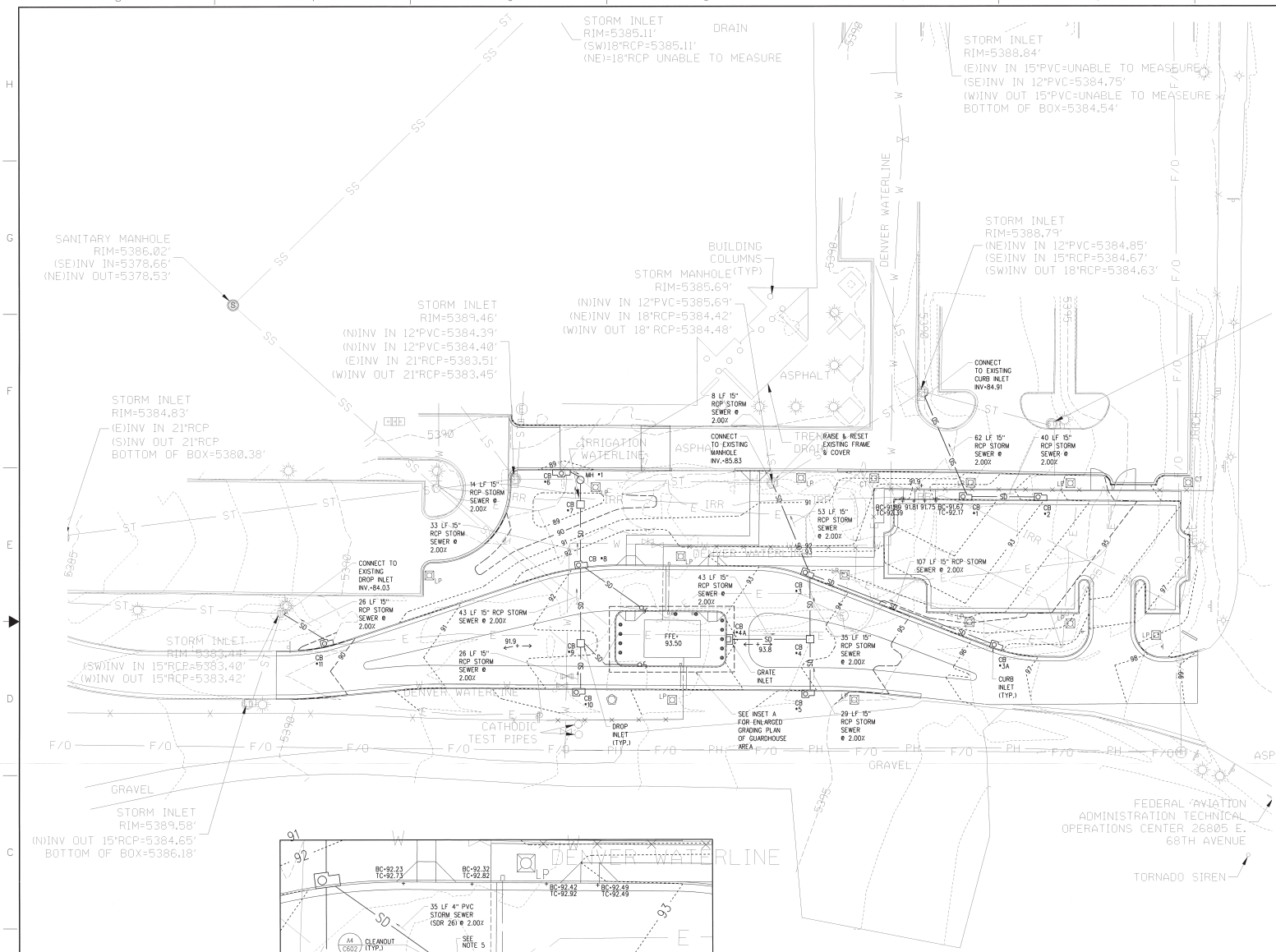
DENVER DENVER INTERNATIONAL AIRPORT CO

REVIEWED BY
SUBMITTED BY
PROJECT ENGINEER
APPROVED BY
MGR: ENGR'G - SEATTLE
DATE 5/5/2011 JCN 1000625
DESIGNED
DRAWN
CHECKED
ISSUED BY ENGINEERING SERVICES INFRASTRUCTURE
DRAWING NO DEN-1000625-C201 REV

DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION

DGN: den-1000625-c201.dgn



GENERAL SHEET NOTES:

1. ALL CURB INLETS SHALL BE CURB INLET TYPE R (5' LENGTH), AS PER COLORADO DOT STANDARD PLAN # M-604-12, OR APPROVED EQUAL.
2. ALL DROP INLETS SHALL BE INLET TYPE C, AS PER COLORADO DOT STANDARD PLAN # M-604-10, OR APPROVED EQUAL.
3. GRATE INLET (36" INLET) SHALL BE AS PER COLORADO DOT STANDARD PLAN # M-604-25, OR APPROVED EQUAL.
4. ALL MANHOLES SHALL BE AS PER COLORADO DOT STANDARD PLAN # M-604-20, OR APPROVED EQUAL.
5. CONNECT TO DOWNSPOUT. SEE ARCHITECTURAL PLANS FOR CONTINUATION. SHEET A205. INVERT TO BE MINIMUM 4' BELOW FINISHED FLOOR.

STRUCTURE #	CDOT STRUCTURE	TOP OF FRAME	INVERTS
CB #1	CURB INLET-TYPE R	92.00	INV(IN,E)=87.15 INV(OUT)=86.15
CB #2	CURB INLET-TYPE R	93.50	INV(OUT)=87.95
CB #3	CURB INLET-TYPE R	94.00	INV(IN,SE)=89.91 INV(IN,S)=86.99 INV(OUT)=86.89
CB #3A	CURB INLET-TYPE R	96.80	INV(OUT)=92.05
CB #4	INLET-TYPE C	93.20	INV(IN,S)=89.07 INV(IN,W)=87.79 INV(OUT)=87.69
CB #4A	VANE GRATE INLET	92.85	INV(OUT)=88.65
CB #5	CURB INLET-TYPE R	94.40	INV(OUT)=89.65
CB #6	CURB INLET-TYPE R	89.20	INV(OUT)=84.45
CB #7	INLET-TYPE C	88.70	INV(IN,S)=84.91 INV(OUT)=84.81
CB #8	CURB INLET-TYPE R	92.60	INV(IN,SE)=88.47 INV(IN,S)=86.57 INV(OUT)=85.57
CB #9	INLET-TYPE C	91.50	INV(IN,SE)=88.12 INV(IN,S)=87.53 INV(OUT)=87.43
CB #10	CURB INLET-TYPE R	92.80	INV(OUT)=88.05
CB #11	CURB INLET-TYPE R	90.30	INV(OUT)=84.55
MH #1	DOGHOUSE MANHOLE	89.30	INV(IN,S)=84.53 INV(IN,NW)=84.79 INV(OUT,EX)=83.76

KEY PLAN

KEY NORTH

SENSITIVE SECURITY INFORMATION

WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY: 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

TRACON
SECURITY SYSTEM MODERNIZATION & UPGRADE
SITE GRADING PLAN

DENVER — DENVER INTERNATIONAL AIRPORT — CO

REVIEWED BY: SUBMITTED TO: APPROVED BY:
PROJECT ENGINEER
DESIGNED: ISSUED BY: ENGINEERING SERVICES INFRASTRUCTURE
DRAWN: MGR: ENGRG - SEATTLE
CHECKED: DATE: 5/8/2014 JCN: 1000625
DRAWING NO: DEN-1000625-C301 REV:

DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION

GENERAL SHEET NOTES:

1. FOR LEGEND AND ABBREVIATIONS SEE DRAWING C001.
2. SEE ELECTRICAL DRAWINGS FOR PROPOSED CONDUIT RUNS AND HANDHOLE INFORMATION. CONTRACTOR SHALL COORDINATE CONDUITS WITH ALL OTHER UTILITIES TO AVOID CONFLICTS.

STORM INLET
RIM=5385.11'
(SW)18"RCP=5385.11'
(NE)=18"RCP UNABLE TO MEASURE

DRAIN

STORM INLET
RIM=5388.84'
(E)INV IN 15"PVC=UNABLE TO MEASURE
(SE)INV IN 12"PVC=5384.75'
(W)INV OUT 15"PVC=UNABLE TO MEASEURE
BOTTOM OF BOX=5384.54'

SANITARY MANHOLE
RIM=5386.02'
(SE)INV IN=5378.66'
(NE)INV OUT=5378.53'

BUILDING COLUMNS (TYP)

STORM MANHOLE
RIM=5385.69'
(N)INV IN 12"PVC=5385.69'
(NE)INV IN 18"RCP=5384.42'
(W)INV OUT 18"RCP=5384.48'

STORM INLET
RIM=5388.79'
(NE)INV IN 12"PVC=5384.85'
(SE)INV IN 15"RCP=5384.67'
(SW)INV OUT 18"RCP=5384.63'

STORM INLET
RIM=5389.46'
(N)INV IN 12"PVC=5384.39'
(N)INV IN 12"PVC=5384.40'
(E)INV IN 21"RCP=5383.51'
(W)INV OUT 21"RCP=5383.45'

STORM INLET
RIM=5384.83'
(E)INV IN 21"RCP
(S)INV OUT 21"RCP
BOTTOM OF BOX=5380.38'

DENVER WATERLINE

ASPHALT

IRRIGATION WATERLINE

TRENCH DRAIN

LOCATION OF RELOCATED FIRE HYDRANT (SEE SHEET C101)

31 LF 6" DIP WATER LINE

116 LF TELCO LINE. SEE ELEC. SHEET E201

116 LF ELECTRICAL LINE. SEE ELEC. SHEET E201

CONNECT TO WATERLINE W/ TAPPING SLEEVE AND 6" VALVE

24 LF 1" TYPE K COPPER WATER LINE

B6 C602 CONNECT TO EXISTING WATER LINE W/ 1" VALVE & COUPLING.

CONNECT TO EXISTING SANITARY SEWER WITH 4" COUPLING. INV=81.26 (CONTRACTOR SHALL DIG TEST PIT TO CONFIRM INVERT)

45° BENDS

STORM INLET
RIM=5383.44'
(SW)INV IN 15"RCP=5383.40'
(W)INV OUT 15"RCP=5383.42'

SEE ELECTRICAL PLANS FOR CONTINUATION, SHEET E201

SEE PLUMBING PLANS FOR CONTINUATION, SHEET M101

CATHODIC TEST PIPES

INV(OUT) =81.58

32 LF 4" DIP SAN. SEWER SLOPED @ 1.00%

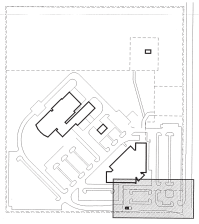
A4 C602 CLEANOUT

GRAVEL

STORM INLET
RIM=5389.58'
(N)INV OUT 15"RCP=5384.65'
BOTTOM OF BOX=5386.18'

FEDERAL AVIATION ADMINISTRATION TECHNICAL OPERATIONS CENTER 26805 E. 68TH AVENUE

TORNADO SIREN



KEY PLAN

KEY NORTH

20' 10' 0 20' 40'
1" = 20'-0"

SENSITIVE SECURITY INFORMATION

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JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	RECEIVE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

TRACON
SECURITY SYSTEM MODERNIZATION & UPGRADE
SITE UTILITY PLAN

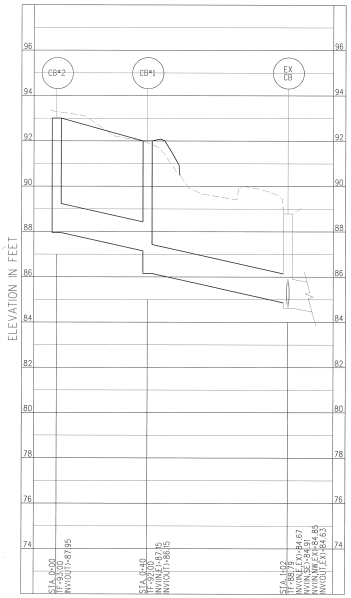
DENVER — DENVER INTERNATIONAL AIRPORT — CO

REVIEWED BY: SUBMITTED BY: APPROVED BY:
PROJECT ENGINEER — MGR: ENGR'G - SEATTLE
DESIGNED — ISSUED BY: ENGINEERING SERVICES INFRASTRUCTURE — DATE 5/19/2011 — JCN 1000625
DRAWN — DRAWING NO. DEN-1000625-C401
CHECKED

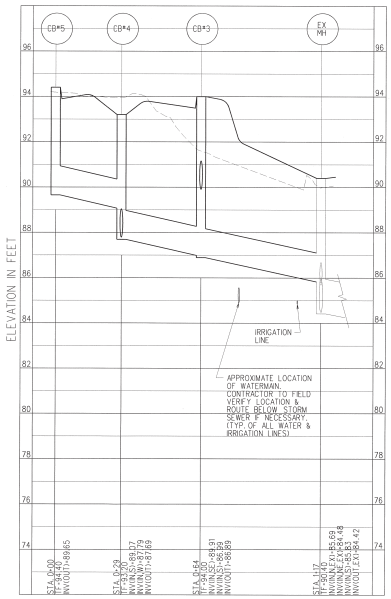
DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION

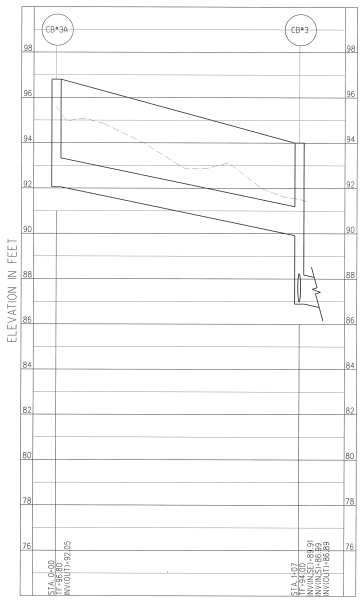
D:\ACAD 2010\DEN-1000625-C401.dwg



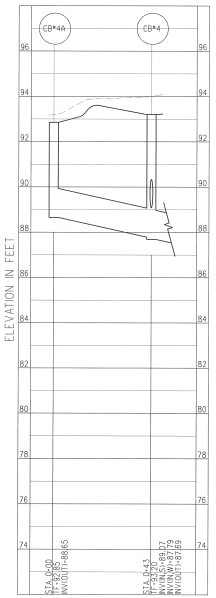
1 STORM DRAIN PROFILE



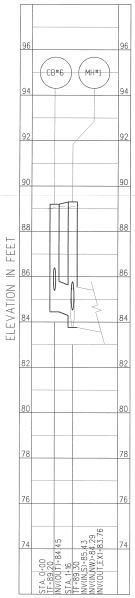
2 STORM DRAIN PROFILE



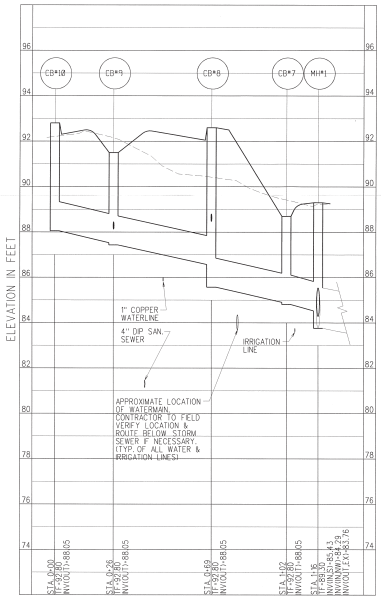
3 STORM DRAIN PROFILE



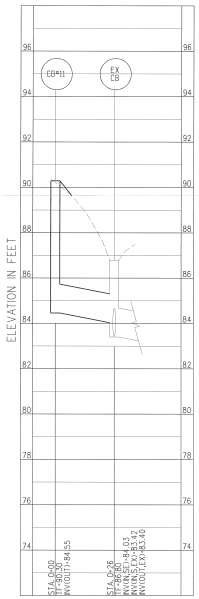
4 STORM DRAIN PROFILE



5 STORM DRAIN PROFILE



6 STORM DRAIN PROFILE



7 STORM DRAIN PROFILE

VERTICAL SCALE: 2' 1' 0 2' 4' — 1" = 2'-0"

HORIZONTAL SCALE: 20' 10' 0 20' 40' — 1" = 20'-0"

SENSITIVE SECURITY INFORMATION

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JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	RECEIVE DATE	APVD

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

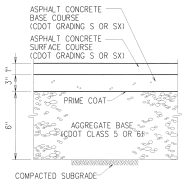
TRACON
SECURITY SYSTEM MODERNIZATION & UPGRADE
STORM SEWER PROFILES

DENVER — DENVER INTERNATIONAL AIRPORT — CO

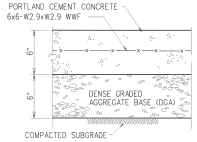
REVIEWED BY: SUBMITTED BY: APPROVED BY:
PROJECT ENGINEER — MGR: ENGR'G - SEATTLE
DESIGNED: ISSUED BY: ENGINEERING SERVICES INFRASTRUCTURE — DATE: 5/9/2011 — JCN: 1000625
DRAWN: — DRAWING NO: DEN-1000625-C501
CHECKED:

DENVER TRACON
DENVER
COLORADO

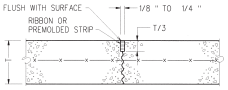
ISSUED FOR CONSTRUCTION



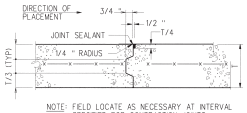
E1 C601 ASPHALT CONCRETE PAVEMENT SECTION
NTS



E2 C601 CONCRETE SIDEWALK SECTION
NTS

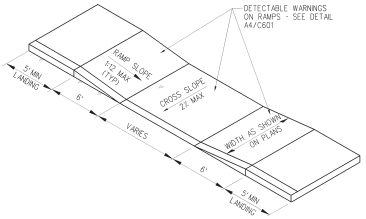


E3 C601 CONTRACTION JOINT (TYP)
NTS

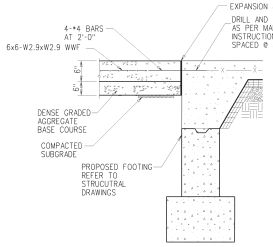


NOTE: FIELD LOCATE AS NECESSARY AT INTERVAL SPECIFIED FOR CONTRACTION JOINTS

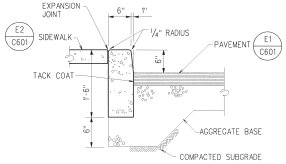
E4 C601 CONSTRUCTION JOINT (TYP)
NTS



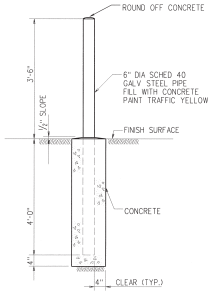
E5 C601 HANDICAP CURB RAMP
NTS



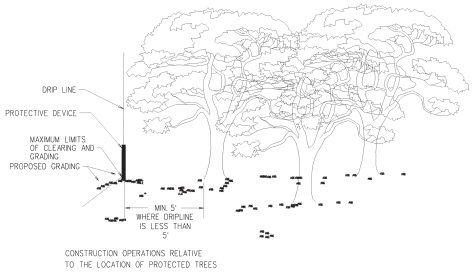
C1 C601 CONCRETE SIDEWALK AT GUARD HOUSE
NTS



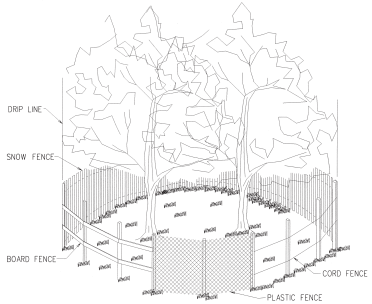
C2 C601 CONCRETE CURB
NTS



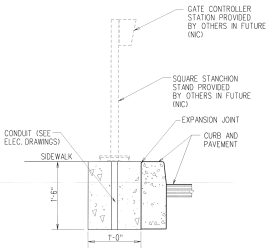
C3 C601 BOLLARD
NTS



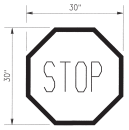
CONSTRUCTION OPERATIONS RELATIVE TO THE LOCATION OF PROTECTED TREES



C5 C601 TREE PROTECTION
NTS



B1 C601 CARD READER FOUNDATION
NTS



NOTES:
1. MUTCD STANDARD SIGN DESIGNATION: R1-1
2. MOUNTING HEIGHT - 60" FROM BOTTOM OF SIGN TO PAVEMENT.
3. ALL SIGNS SHALL BE MOUNTED U CHANNEL POSTS 2.0 WT/FT MIN., AND DRIVEN A MINIMUM OF 4' INTO THE GROUND.

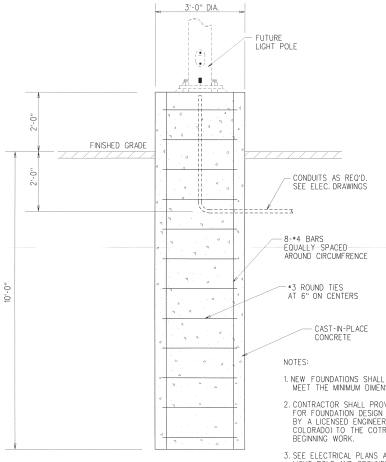
B2 C601 STOP SIGN
NTS

NOTES:
1. MUTCD STANDARD SIGN DESIGNATION: R7-8
2. MOUNTING HEIGHT - 80" FROM BOTTOM OF SIGN TO PAVEMENT.
3. ALL SIGNS SHALL BE MOUNTED TO U CHANNEL POSTS 2.0 WT/FT MIN., AND DRIVEN A MINIMUM OF 4' INTO THE GROUND.

B3 C601 HANDICAP PARKING SIGN
NTS

MOUNTING NOTES:
1. SIGN MOUNTING HEIGHT - 60" FROM BOTTOM OF SIGN TO PAVEMENT
2. SIGNS SHALL BE MOUNTED TO U CHANNEL POSTS 2.0 WT/FT MIN. AND DRIVEN A MINIMUM OF 4' INTO THE GROUND.

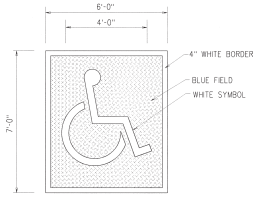
B5 C601 VISITOR PARKING SIGN
NTS



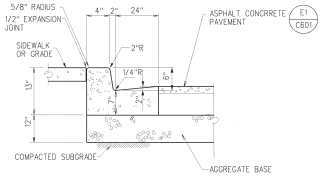
NOTES:
1. NEW FOUNDATIONS SHALL BE CONSTRUCTED TO MEET THE MINIMUM DIMENSIONS SHOWN.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR FOUNDATION DESIGN (SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF COLORADO) TO THE COTR FOR APPROVAL, PRIOR TO BEGINNING WORK.
3. SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR LIGHT POLE AND GROUNDING INFORMATION.

B6 C601 LIGHT POLE FOUNDATION
NTS

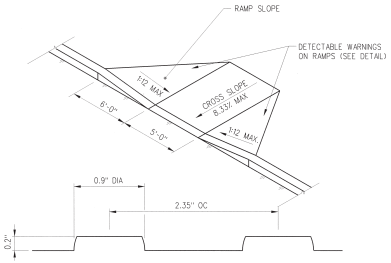
NOTE:
1. SYMBOL PROPORTIONS TO BE IN ACCORDANCE WITH ANSI 4.30



A1 C601 HANDICAPPED PARKING SYMBOL
NTS



A2 C601 CONCRETE CURB & GUTTER
NTS



DETECTABLE WARNING DETAIL

A4 C601 CURB RAMP
NTS

SENSITIVE SECURITY INFORMATION

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JE JACOBS

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	MYR

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
ATO - TECHNICAL OPERATIONS WESTERN SERVICE AREA

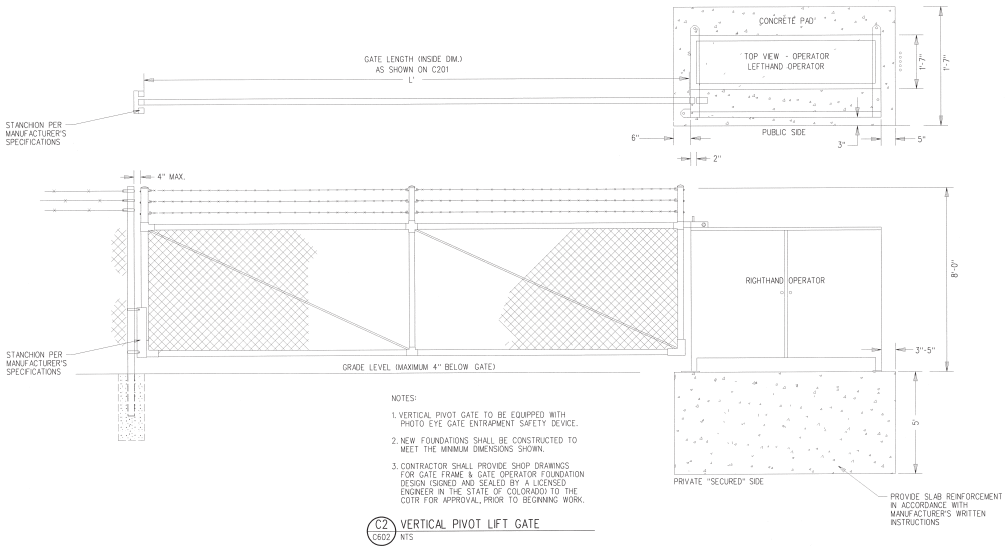
TRACON
SECURITY SYSTEM MODERNIZATION & UPGRADE
DETAILS

DENVER — DENVER INTERNATIONAL AIRPORT — CO

REVIEWED BY: SUBMITTED BY: PROJECT ENGINEER
APPROVED BY: MGR: ENGRG - SEATTLE
DESIGNED / DRAWN / CHECKED — ISSUED BY: ENGINEERING SERVICES INFRASTRUCTURE
DATE: 5/9/2011 JCN: 1000625
DRAWING NO: DEN-1000625-C601 REV:

DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION

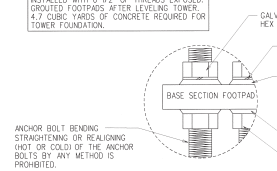


NOTES:

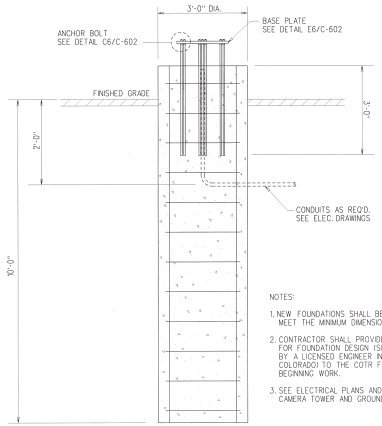
1. VERTICAL PIVOT GATE TO BE EQUIPPED WITH PHOTO EYE GATE ENTRAPMENT SAFETY DEVICE.
2. NEW FOUNDATIONS SHALL BE CONSTRUCTED TO MEET THE MINIMUM DIMENSIONS SHOWN.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR GATE FRAME & GATE OPERATOR FOUNDATION DESIGN (SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF COLORADO) TO THE COTR FOR APPROVAL, PRIOR TO BEGINNING WORK.

C2 / C602 VERTICAL PIVOT LIFT GATE
NTS

ANCHOR BOLT 157311 P/N 112601
4 REQUIRED PER LEG
DIAMETER - 5/8", COLOR CODE RED & WHITE.
INSTALLED WITH 6 1/2" OF THREADS EXPOSED.
GROUTED FOOTPADS AFTER LEVELING TOWER.
4.7 CUBIC YARDS OF CONCRETE REQUIRED FOR TOWER FOUNDATION.



C6 / C602 ANCHOR BOLT DETAIL
NTS



NOTES:

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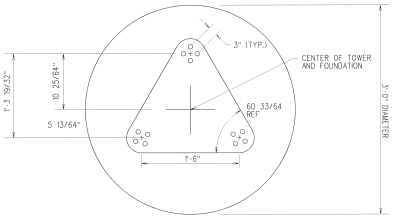
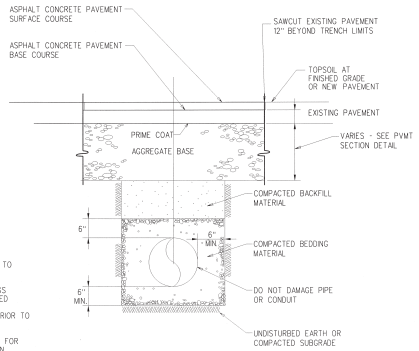
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR FOUNDATION DESIGN (SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF COLORADO) TO THE COTR FOR APPROVAL, PRIOR TO BEGINNING WORK.
3. SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR CAMERA TOWER AND GROUNDING INFORMATION.

C4 / C602 CAMERA TOWER FOUNDATION
NTS

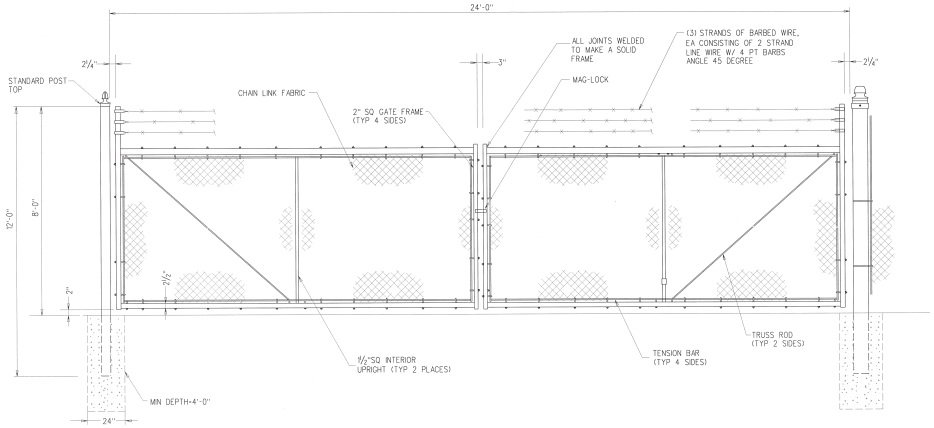


E6 / C602 BASE PLATE DETAIL
NTS

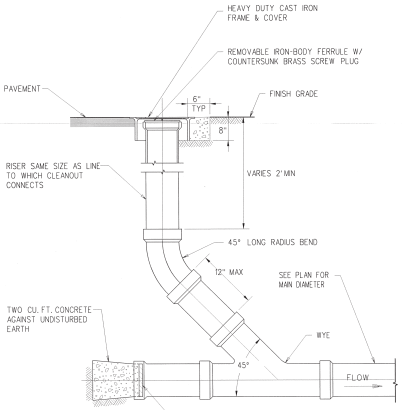


NOTE: PAVEMENT SECTION IS MINIMUM REQUIRED FOR PAVEMENT REPLACEMENT. CONTRACTOR SHALL MATCH EXISTING SECTION IF IT IS THICKER THAN ABOVE

D6 / C602 TRENCH DETAIL
NTS



A2 / C602 DOUBLE SWING GATE
NTS

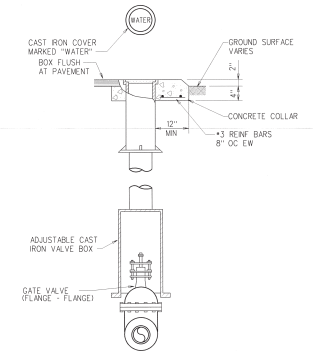


STANDARD CLEANOUT

NOTES:

1. FERRULE AS SHOWN IS APPLICABLE TO 4"-8" PIPE. FOR 10"-15" PIPE USE A BLIND PLUG.
2. SUBSTITUTE CONNECTION TO UPSTREAM LINE FOR PLUG, WHERE SHOWN ON PLANS.
3. COVER SHALL BE CAST WITH LETTERS "C.O. ON TOP.
4. CLEANOUTS SHALL BE STANDARD TYPE UNLESS NOTED ON PLANS.

A4 / C602 CLEANOUT
NTS



B6 / C602 GATE VALVE BOX
NTS

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JE JACOBS

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TRACON
SECURITY SYSTEM MODERNIZATION & UPGRADE
DETAILS

DENVER — DENVER INTERNATIONAL AIRPORT — CO

REVIEWED BY	SUBMITTED BY	APPROVED BY
	PROJECT ENGINEER	MGR: ENGRG — SEATTLE
DESIGNED	ISSUED BY: ENGINEERING SERVICES INFRASTRUCTURE	DATE: 5/9/2011 JCN: 1000625
DRAWN		DRAWING NO: DEN-1000625-C602 REV:
CHECKED		

DENVER TRACON
DENVER
COLORADO

ISSUED FOR CONSTRUCTION