

STORM & SANITARY SEWER PRIVATE CONSTRUCTION PLANS FOR
JACK IN THE BOX - TOWER ROAD STORE #8166
GRAND VALLEY RANCH
LOT 1, BLOCK 3, TOWER 160, CITY AND COUNTY OF DENVER, STATE OF COLORADO.
4903 N. TOWER ROAD, DENVER CO 80249
DENVER PROJECT NO.: 2020-PROJMSTR-0000312 / 2023-SSPR-0000210

STANDARD NOTES:

- NO WORK IS AUTHORIZED WITHOUT A PRE-CONSTRUCTION MEETING AT WHICH TIME YOU WILL RECEIVE A COPY OF THE CITY AND COUNTY OF DENVER STAMPED AND APPROVED SET OF PLANS. PLEASE EMAIL DOTPERMITOPERATIONS@DENVERGOV.ORG TO SCHEDULE A PRE-CONSTRUCTION MEETING AFTER YOUR PLANS HAVE BEEN APPROVED. INCLUDE THE PLAN SET NUMBER (20XX-SSPR-XXXXXX) IN THE SUBJECT LINE OF THE REQUEST.
- CITY AND COUNTY OF DENVER WASTEWATER STANDARD DETAILS, AND TECHNICAL SPECIFICATIONS FOR SANITARY & STORM SEWERS, APPLY TO THIS WORK. THE MOST CURRENT CITY AND COUNTY OF DENVER WASTEWATER STANDARD DETAILS (STANDARD DRAWINGS), SHALL BE USED AS A MINIMUM. THE TECHNICAL SPECIFICATIONS ARE AVAILABLE FROM DEVELOPMENT SERVICES - SITE ENGINEERING. BOTH SETS MUST BE IN POSSESSION OF THE CONTRACTOR AT THE PRE-CONSTRUCTION CONFERENCE AND MUST REMAIN ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL SUB-CONTRACTORS HAVE ALL STANDARDS IN THEIR POSSESSION.
- THE MOST CURRENT CITY AND COUNTY OF DENVER WASTEWATER STANDARD DETAILS CAN BE VIEWED AT: [HTTPS://WWW.DENVERGOV.ORG/FILES/ASSETS/PUBLIC/DOT/DOCUMENTS/STANDARDS/PWES-011.2-WASTEWATER_MANAGEMENT_STANDARD_DETAIL_DRAWINGS.PDF](https://www.denvergov.org/files/assets/public/dot/DOCUMENTS/STANDARDS/PWES-011.2-WASTEWATER_MANAGEMENT_STANDARD_DETAIL_DRAWINGS.PDF)
- CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY RULES AND REGULATIONS.
- ONE SET OF THE APPROVED SEWER CONSTRUCTION DRAWINGS MUST BE ON-SITE AT ALL TIMES OF CONSTRUCTION. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL SUB-CONTRACTORS HAVE ALL APPROVED PLANS IN THEIR POSSESSION.
- ALL SEWER PIPES SHALL BE INSTALLED WITH CLASS B BEDDING AS A MINIMUM.
- ANY MODIFICATIONS, ADJUSTMENTS, CONSTRUCTION OR RECONSTRUCTION OF CITY AND COUNTY OF DENVER WASTEWATER DIVISION FACILITIES MUST BE INSPECTED BY THE ASSIGNED DOTI CONSTRUCTION ENGINEERING INSPECTOR. THE INSPECTOR WILL BE ASSIGNED PRIOR TO THE REQUIRED PRE-CONSTRUCTION MEETING. IF THERE ARE ANY QUESTIONS, SEND EMAIL TO DOTIPERMITOPERATIONS@DENVERGOV.ORG OR CONTACT DOTI PERMIT OPERATIONS AT 303-446-3759.
- PIPE MATERIAL, FITTINGS, TRENCHING, BEDDING, CONNECTIONS, AND SEWER INSTALLATION MUST BE INSPECTED BY THE ASSIGNED PW CONSTRUCTION ENGINEERING INSPECTOR PRIOR TO ANY TRENCH BACKFILL. INSPECTION APPOINTMENTS MUST BE MADE A MINIMUM OF 48 HOURS IN ADVANCE OF THE WORK. APPOINTMENTS MUST BE MADE BY SENDING EMAIL TO DOTIPERMITOPERATIONS@DENVERGOV.ORG. MONITORING OF THE PROJECT BY DOTI SHALL BE FOR THE PURPOSE OF ASSURING GENERAL COMPLIANCE WITH THE APPROVED PLANS, STANDARDS, DETAILS, AND SPECIFICATIONS AS WELL AS THE RULES & REGULATIONS. STORM AND SANITARY INSPECTIONS SHALL NOT TAKE THE PLACE OF CONSTRUCTION INSPECTION AND MATERIALS TESTING, WHICH IS THE OWNER'S RESPONSIBILITY.
- SANITARY SEWER PIPES SHALL BE PVC AND CONFORM TO: ASTM D3034 SDR 35 FOR SIZES 8 INCHES TO 15 INCHES IN DIAMETER (SOLID WALL), ASTM F789 FOR 18 INCHES (SOLID WALL), ASTM F679 FOR SIZES 18 TO 36 INCHES (SOLID WALL), ASTM F949 FOR SIZES 8 TO 36 INCHES (PVC PROFILE WALL), ASTM F794 FOR SIZES 8 TO 48 INCHES (PROFILE WALL), OR ASTM F1803 FOR SIZES 18 TO 60 INCHES (CLOSED PROFILE GRAVITY PIPE).
- ANY QUESTIONS REGARDING STORM OR SANITARY FACILITIES THAT ARISE DURING CONSTRUCTION SHOULD BE BROUGHT TO THE ATTENTION OF DOTI CONSTRUCTION ENGINEERING BY SENDING EMAIL TO DOTIPERMITOPERATIONS@DENVERGOV.ORG OR BY CALLING DOTI PERMIT OPERATIONS AT 303-446-3722.
- BACKFILL IN PUBLIC RIGHT OF WAY MUST MEET THE REQUIREMENTS OF DOTI. A STREET CUT PERMIT AND INSPECTION OF A BACKFILL AND PAVEMENT REPAIR BY DOTI IS REQUIRED FOR ALL WORK IN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR AND/OR DEVELOPER IS ADVISED TO CONTACT CONSTRUCTION ENGINEERING ROW INSPECTION AT 303-446-3469 OR DOTI AT 303-446-3759 TO OBTAIN INFORMATION REGARDING FEES AND PROCEDURES FOR OBTAINING THE REQUIRED PERMIT(S). CONTRACTOR MUST OBTAIN A STREET CUT PERMIT AND NOTIFY THE DISTRICT INSPECTOR AT (303) 446-3469, 48-HOURS PRIOR TO START OF JOB. COMPACTION TESTING IS REQUIRED.
- THE CONTRACTOR PERFORMING WORK ON ANY PUBLIC OR PRIVATE STORM SEWER FACILITY OR APPURTENANCE MUST BE PROPERLY TRADE LICENSED AS A COMPANY AND HAVE A LICENSED PLUMBER, DRAINLAYER SUPERVISOR OR SEWER CONTRACTOR ON SITE DURING THE WORK.
- ACCESS MUST BE MAINTAINED FOR ALL SEWER MANHOLES DURING CONSTRUCTION. ANY DESIGN CHANGES TO NEW OR EXISTING PUBLIC STORM OR SANITARY SEWER MUST INCLUDE PERMANENT ACCESS TO THE PUBLIC STORM AND SANITARY SEWER MANHOLES AND COULD REQUIRE ROLL-OVER CURB, COMMERCIAL DRIVE, REINFORCED CONCRETE SIDEWALK, RITTER RINGS OR CONCRETE PAD, MINIMUM ACCESS TO EACH MANHOLE IS A 20' WIDE LANE FROM THE NEAREST PUBLIC RIGHT OF WAY, CENTERED AT THE MANHOLE INCLUDING A 10' RADIUS AROUND THE MANHOLE AND 23.0' VERTICAL CLEARANCE.
- THE CONNECTION OF A NEW SANITARY/STORM SEWER TO AN EXISTING MANHOLE MAY REQUIRE MANHOLE RECONSTRUCTION AT THE DISCRETION OF THE DOTI CONSTRUCTION ENGINEERING INSPECTOR OR THE DOTI CONSTRUCTION ENGINEERING ENGINEER.
- CHANGES IN THE ELEVATION OF AN EXISTING BRICK MANHOLE MAY REQUIRE THE USE OF A PRE-CAST CONCRETE MANHOLE OR MANHOLE RECONSTRUCTION AT THE DISCRETION OF THE DOTI CONSTRUCTION ENGINEERING INSPECTOR AND/OR DOTI CONSTRUCTION ENGINEERING ENGINEER.
- CHANGES IN ELEVATION OR MODIFICATION TO EXISTING INLETS MAY REQUIRE RECONSTRUCTION AT THE DISCRETION OF THE DOTI CONSTRUCTION ENGINEERING INSPECTOR OR ENGINEER.
- THE CONTRACTOR SHALL BE AWARE THAT WHEN DEBRIS IS DROPPED INTO PUBLIC MANHOLES AND OTHER PUBLIC STRUCTURES, THE CONTRACTOR IS TO IMMEDIATELY REMOVE THIS TO ELIMINATE THE POSSIBILITY OF PROPERTY DAMAGE DUE TO THE DEBRIS CAUSING BACKUP INTO PRIVATE PROPERTIES. IF IT IS DETERMINED THAT DEBRIS CAUSED A BACKUP, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR DAMAGES.
- THE CONTRACTOR SHALL MAKE SURE THAT ALL MANHOLES AND OTHER STRUCTURES ARE BUILT TO FINISHED GRADE.
- NO TREES SHALL BE PLANTED WITHIN ANY SEWER EASEMENT OR WITHIN TEN (10) FEET OF ANY PUBLIC MANHOLES, PIPES OR INLETS.
- "AS-BUILT" ELECTRONIC SUBMITTAL OR PRINTS ARE TO BE SUBMITTED TO DEVELOPMENT SERVICES AT COMPLETION OF THE PROJECT. "AS-BUILT" DRAWINGS ARE TO BE REPRODUCIBLE COPIES (OR ORIGINALS) OF THE APPROVED CONSTRUCTION DRAWINGS. ANY FIELD CHANGES ARE TO BE NOTED. THE DRAWINGS WILL STATE "AS-BUILT" IN LARGE BLOCK LETTERS. THE "AS-BUILT" ELECTRONIC SUBMITTAL OR PRINTS ARE TO BE SIGNED, DATED AND STAMPED BY A COLORADO REGISTERED ENGINEER.
- AS-BUILT FIELD NOTES (IF REQUESTED), FROM WHICH THE AS-BUILT DRAWINGS ARE PREPARED, ARE TO BE PROVIDED AND STAMPED/SIGNED AND DATED BY THE COLORADO REGISTERED PROFESSIONAL LAND SURVEYOR. THESE NOTES MUST INCLUDE THE STATIONING OF ANY BUILDING SEWER STUBS INSTALLED.
- UPON COMPLETION OF SITE GRADING AND SEWER CONSTRUCTION, THE OWNER OR DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING DEVELOPMENT SERVICES WITH A CERTIFICATE OF INSPECTION PREPARED BY THE COLORADO REGISTERED ENGINEER WHO PERFORMED OR SUPERVISED CONSTRUCTION INSPECTION, CERTIFYING THAT:
a) A CONSTRUCTION INSPECTOR WAS ON THE JOB SITE AT ALL TIMES SEWER OR DRAINAGE FACILITY WORK WAS PERFORMED,
b) ALL STORM AND SANITARY SEWER FACILITIES, SITE GRADING, DETENTION POND GRADING AND OUTLET WORKS (IF ANY) WERE CONSTRUCTED IN COMPLIANCE WITH PLANS AND SPECIFICATIONS APPROVED BY THE DEPARTMENT OF PUBLIC WORKS
c) THE AS-BUILT DRAWINGS INCLUDED ACCURATELY DEPICT THE FINAL INSTALLATION OF THE STORM DRAINAGE AND/OR SEWER SYSTEM. THIS CERTIFICATION SHALL BE REQUIRED FOR ALL STORM AND SANITARY SEWER FACILITIES IN ADDITION TO ANY INSPECTIONS MADE BY THE DIVISION OR DOTI.
- ALL CONCRETE STORM SEWER AND SANITARY SEWER STRUCTURES (WITH THE EXCEPTION OF MANHOLE BARRELS/RISERS, CONES, GRADE RINGS AND FLAT TOP SECTIONS) ARE REQUIRED TO BE CAST-IN-PLACE. IF A VARIANCE FOR USE OF PRE-CAST STRUCTURES IS DETERMINED BY DOTI TO BE WARRANTED, THEN SUBMITTALS WILL NEED TO BE PROVIDED AT THE REQUIRED PRE-CONSTRUCTION MEETING. THE DOTI WASTEWATER PROJECT INSPECTOR WILL REVIEW THE SUBMITTAL AND MAY REQUIRE ADJUSTMENT, OR MAY APPROVE THE SUBMITTAL. ONCE THE SUBMITTAL HAS BEEN APPROVED BY THE DOTI WASTEWATER INSPECTION OR ENGINEERING TEAM, THE CONTRACTOR WILL BE APPROVED TO SUBMIT FOR PRE-CAST PRODUCTION.

DEWATERING NOTES:

- INITIAL CONSTRUCTION DEWATERING WILL BE THROUGH AN OPEN TRENCH.
- THE CONSTRUCTION DEWATERING TRENCH WILL BE PERMITTED AS A DEWATERING WELL THROUGH THE COLORADO DEPARTMENT OF WATER RESOURCES (DWR) USING FORM DWS-62, NOTICE OF INTENT TO CONSTRUCT DEWATERING WELL(S).
- DEWATERING WATER OPERATIONS WILL DISCHARGE TO EXISTING STORM INFRASTRUCTURE AT NO MORE THAN 0.5 CFS.
- DISCHARGE OF DEWATERING WATER WILL BE PERMITTED UNDER THE APPLICABLE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) REQUIREMENTS, INCLUDING THE SUBTERRANEAN DEWATERING GENERAL PERMIT (COG60500).

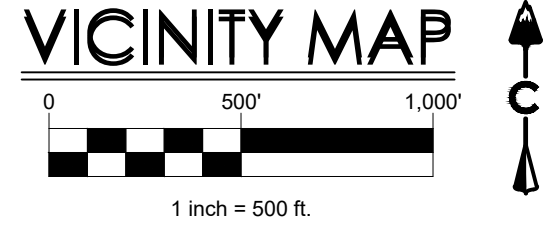
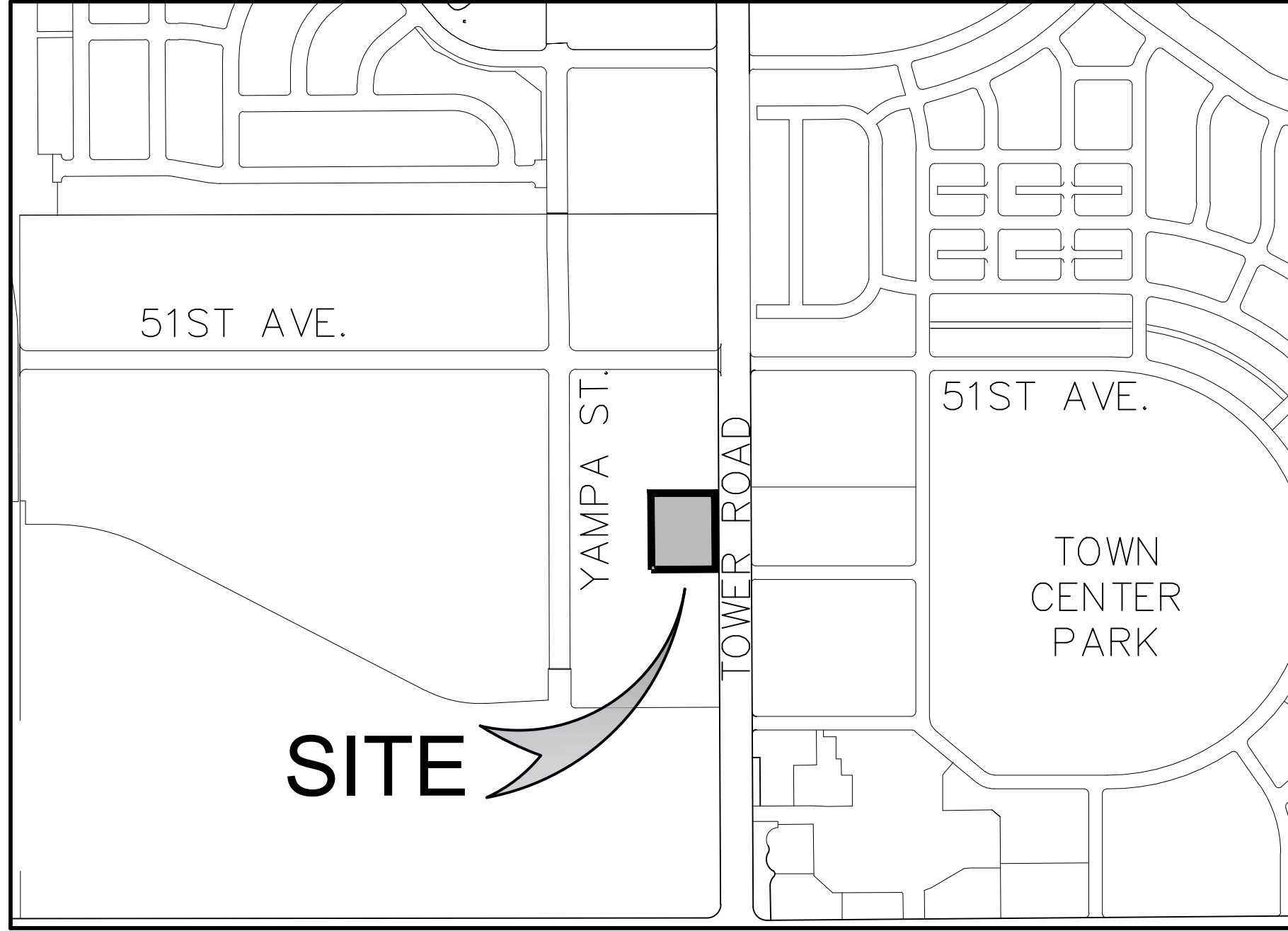
BASIS OF BEARINGS

THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 16, TOWNSHIP 3 SOUTH, RANGE 66 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE EAST QUARTER CORNER BY A NO. 6 REBAR WITH A 3-1/4" DIAMETER ALUMINUM CAP STAMPED "LUCIETTI SURVEYING PLS 36053 2005" IN A RANGE BOX AND AT THE SOUTHEAST CORNER BY A NO. 6 REBAR WITH A 3-1/4" DIAMETER ALUMINUM CAP STAMPED "LUCIETTI SURVEYING PLS 36053 2005" IN RANGE BOX, ASSUMED TO BEAR SOUTH 00°15'23" EAST.

BENCHMARK:

CITY & COUNTY OF DENVER BENCHMARK NO. 584.
RECOVERED A 2" BRASS CAP IN THE NOSE OF MEDIAN IN
48TH AVENUE EAST OF HIMALAYA STREET.

ELEV. = 5417.64 (NAVD 88 DATUM)



LEGEND:

---	UTILITY EASEMENT
---	RIGHT OF WAY
---	PROPOSED CENTER LINE
---	PROPOSED PROPERTY BOUNDARY
---	PROPOSED GRAVITY SEWER
---	PIPE WITH MANHOLE WITH PLUG
---	SANITARY SERVICE, 4" PVC
---	EXISTING GRAVITY SEWER
---	PIPE WITH MANHOLE
---	TRANSMISSION MAIN
---	WATER SERVICE
---	CURB STOP CUT OUT
---	RAW WATER
---	WATER VALVE
---	FIRE HYDRANT ASSEMBLY
---	WATERLINE REDUCER
---	BEND AND THRUST BLOCK
---	BLOW-OFF ASSEMBLY
---	AIR/VACUUM RELEASE
---	VALVE & VAULT AND VENT
---	PIPE WITH PLUG & B.O.
---	PROPOSED MANHOLE AND PIPE
---	PROPOSED INLETS
---	PROPOSED FLARED END SECTION
---	EXISTING MANHOLE AND PIPE
---	EXISTING INLETS
---	EXISTING FLARED END SECTION

SHEET INDEX

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5	STORM P&P - STORM 1	C2.5
6	STORM P&P - STORM 1.1	C2.6
7	STORM P&P - STORM 1.2	C2.7
8	STORM P&P - STORM 1.3	C2.8
9	STORM P&P - STORM 1.4	C2.9
10	DETAILS	C2.10

CONTACT LIST:

OWNER

JACK IN THE BOX
9330 BALBOA AVE.
SAN DIEGO, CA 92123
(858) 571-2121

ENGINEER

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
(303) 703-4444
CONTACT: JUSTIN SIMPSON
EMAIL: JSIMPSON@LIVEYOURCORE.COM

SURVEYOR

ALTURA LAND CONSULTANTS
6950 S. TUCSON WAY, UNIT C
CENTENNIAL, CO 80112
(720) 488-1303
CONTACT: JESUS A. LUGO

PLANNER / ARCHITECT

PM DESIGN GROUP, INC
6930 DESTINY DRIVE, SUITE 100
ROCKLIN, CA 95677
CONTACT: GREG BORCHATDT
(916) 303-4512
EMAIL: GBORCHARDT@PMDGINC.COM

CITY / TOWN

CITY OF LAKEWOOD
470 SOUTH ALLISON PARKWAY
LAKEWOOD, CO 80226
CONTACT: MATT POST
(303) 987-7520
EMAIL: MATPOS@LAKEWOOD.ORG

UTILITY PROVIDERS

CONSOLIDATED WATER COMPANY
(303) 238-0451

LAKEWOOD SEWER UTILITIES
(303) 987-7830

PUBLIC WORKS (STORM SEWER)
(303)987-7949

CITY AND COUNTY OF DENVER
DEPARTMENT OF TRANSPORTATION AND INFRASTRUCTURE (DOTI)
DEVELOPMENT ENGINEERING SERVICES

CHECKED FOR GENERAL COMPLIANCE WITH APPLICABLE DENVER
CRITERIA, RULES, REGULATIONS, AND STANDARDS.

APPROVED (IF VALIDLY SIGNED)

THIS APPROVAL BECOMES VOID IF CONSTRUCTION IS NOT STARTED
WITHIN ONE (1) YEAR OF THE APPROVAL DATE.

APPROVED BY _____ DATE _____
(NOTE: SIGNATURE IN PRINT) _____ REVIEW ENGINEER _____

APPROVED AS TO FORM.
ENGINEERING CALCULATIONS, DRAWINGS, AND DESIGN
ADEQUACY ARE ACCEPTED BASED UPON THE PROJECT
ENGINEER'S ATTACHED SEAL OF REGISTRATION.

THIS APPROVAL IS FOR PRIVATE
STORM AND SANITARY IMPROVEMENTS

CALL THE UTILITY NOTIFICATION CENTER OF COLORADO AT

811

THREE (3) BUSINESS DAYS IN ADVANCE BEFORE DIGGING,
GRADING OR EXCAVATION FOR MARKING OF MEMBER'S
UNDERGROUND UTILITIES



JUSTIN R. SIMPSON, P.E. 54251 DATE: 10/8/2024

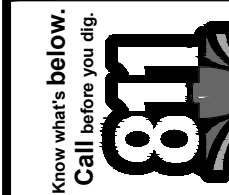
DES PROJ NO: 2022PM0000312 /2023-SSPR-0000210

PROJECT NAME: TOWER JACK IN THE BOX #8166

DESIGNED BY: TY	DATE: 8/29/2023	DATE ISSUED:	DRAWING NO.
DRAWN BY: TY	DATE: 8/29/2023		
CHECKED BY: JRS	DATE: 10/8/2024	SHEET 1 OF 10 SHEETS	1

CORE CONSULTANTS, INC.
3473 S. BROADWAY
ENGLEWOOD, CO 80113
(303) 703-4444
LIVEYOURCORE.COM

CORE



#	REVISION DESCRIPTION	DATE	BY
1	PERMIT SUBMITTAL	10/8/24	JRS

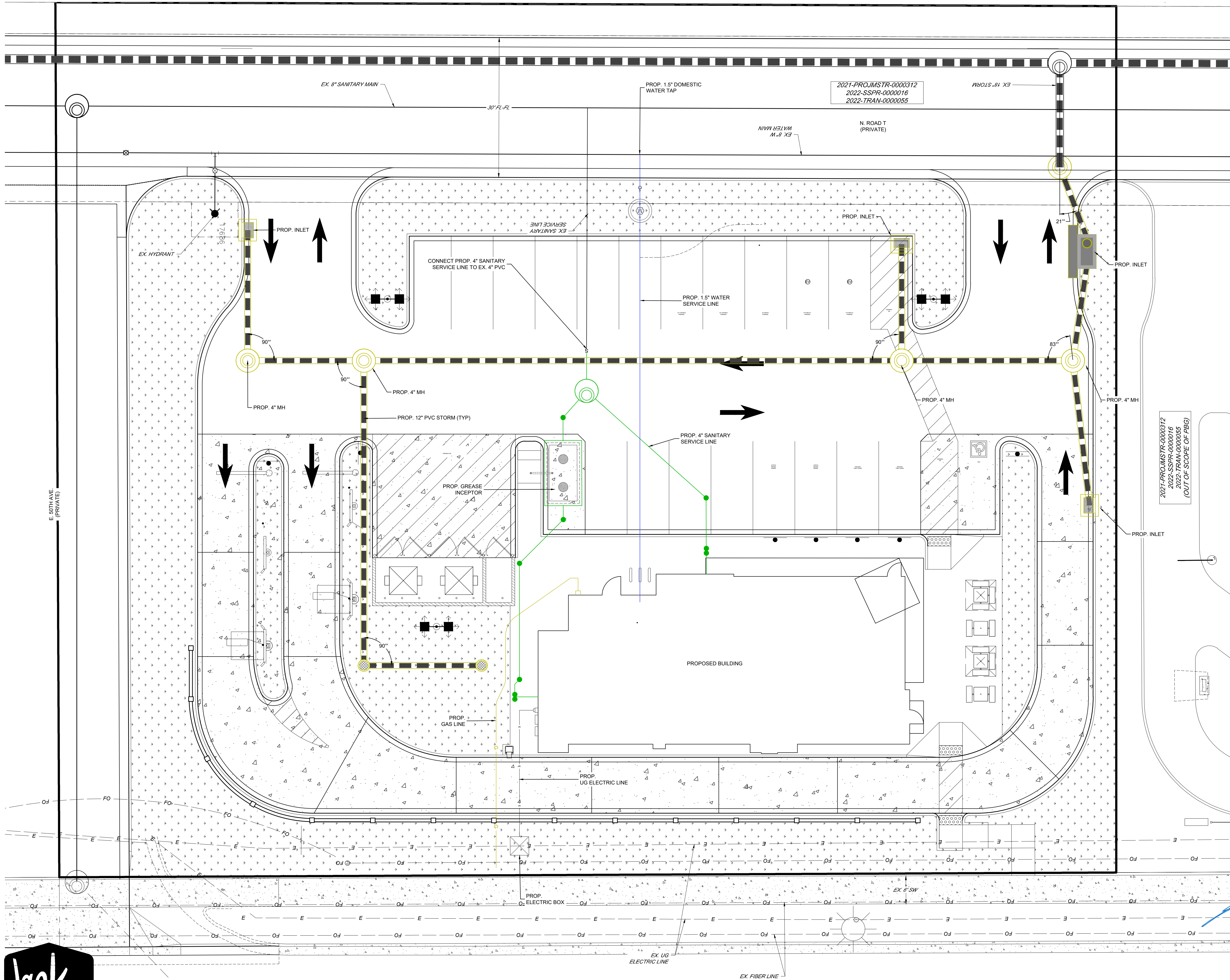
TOWER JACK IN THE BOX STORE #8166
CITY AND COUNTY OF DENVER, CO
WASTEWATER ENGINEERING PLANS
COVER SHEET



DESIGNED BY: TY
DRAWN BY: TY
CHECKED BY: JRS

JOB NO.
22-120
C2.1
1 OF 10

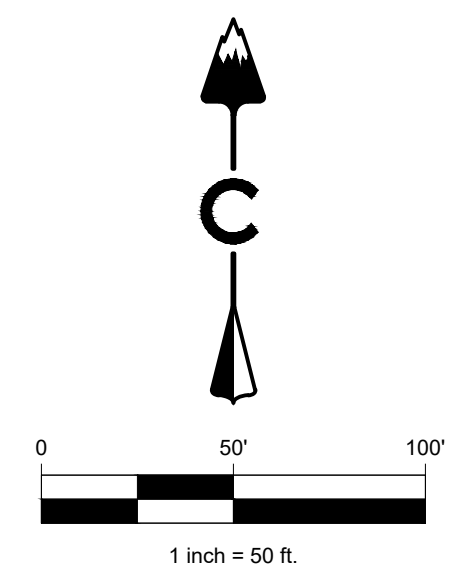




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9
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6

JUSTIN R. SIMPSON, P.E. 54251		DATE: 10/8/2024	
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LEGEND	
	EASEMENT
	RIGHT OF WAY (R.O.W.)
	CENTERLINE
	PROJECT BOUNDARY
	PROPOSED CURB & GUTTER
	PROPOSED IRRIGATION & STUB OUT
	PROPOSED STORM & STUB OUT
	PROPOSED SANITARY & STUB OUT
	PROPOSED WATER & STUB OUT
	EXISTING STORM & STUB OUT
	EXISTING SANITARY & STUB OUT
	EXISTING WATER & STUB OUT
	SANITARY SERVICE
	WATER SERVICE
	EXISTING STREET LIGHT POLES
	PROPOSED STREET LIGHT POLES
	EXISTING POWER POLES
	PROPOSED POWER POLES
	EXISTING SANITARY MANHOLES
	PROPOSED SANITARY MANHOLES
	EXISTING SANITARY CLEAN OUT
	PROPOSED SANITARY CLEAN OUT
	EXISTING WATER VALVES
	PROPOSED WATER VALVES
	EXISTING BEND AND THRUST BLOCK
	PROPOSED BEND AND THRUST BLOCK
	EXISTING FIRE HYDRANTS
	PROPOSED FIRE HYDRANTS
	EXISTING STORM MANHOLES
	PROPOSED STORM MANHOLES
	EXISTING STORM INLETS
	PROPOSED STORM INLETS
	EXISTING ELECTRIC
	PROPOSED ELECTRIC
	EXISTING TELEPHONE
	PROPOSED TELEPHONE
	EXISTING FIBER OPTIC
	PROPOSED FIBER OPTIC
	EXISTING GAS
	PROPOSED GAS
	EXISTING OVER HEAD ELECTRIC
	PROPOSED OVER HEAD ELECTRIC



TOWER JACK IN THE BOX STORE #8166
CITY AND COUNTY OF DENVER, CO
WASTEWATER ENGINEERING PLANS
OVERALL UTILITY



DESIGNED BY: TY	JOB NO. 22-120
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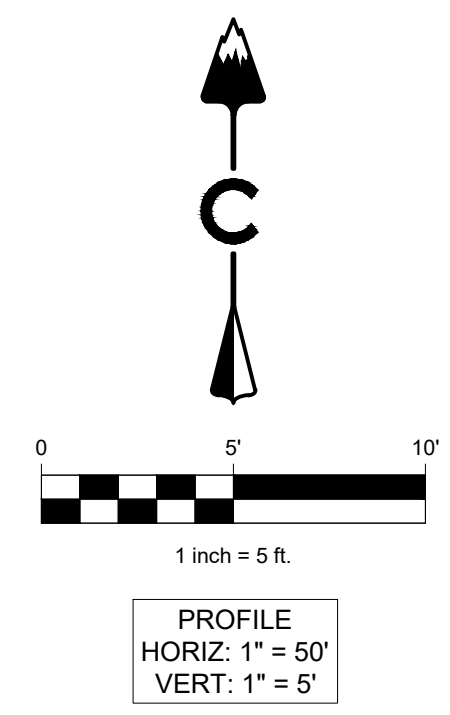
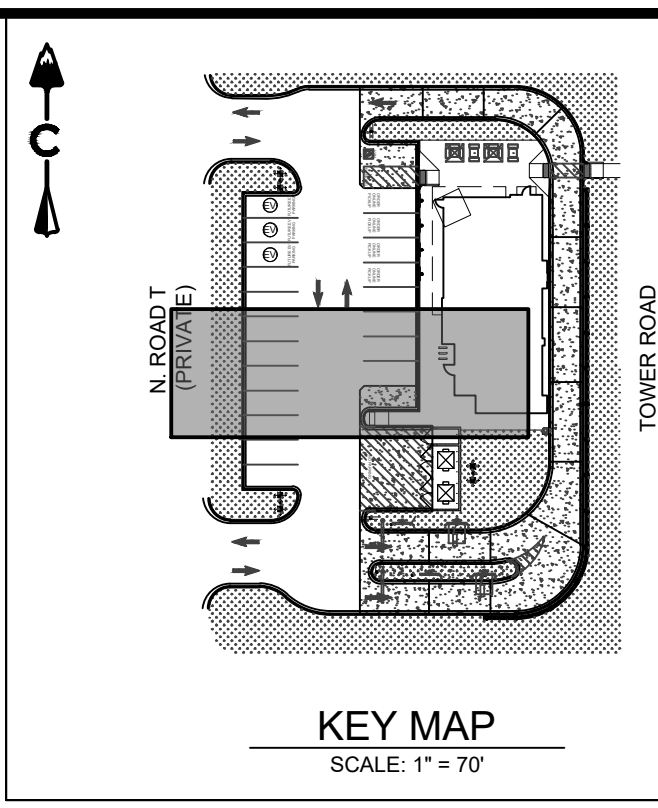
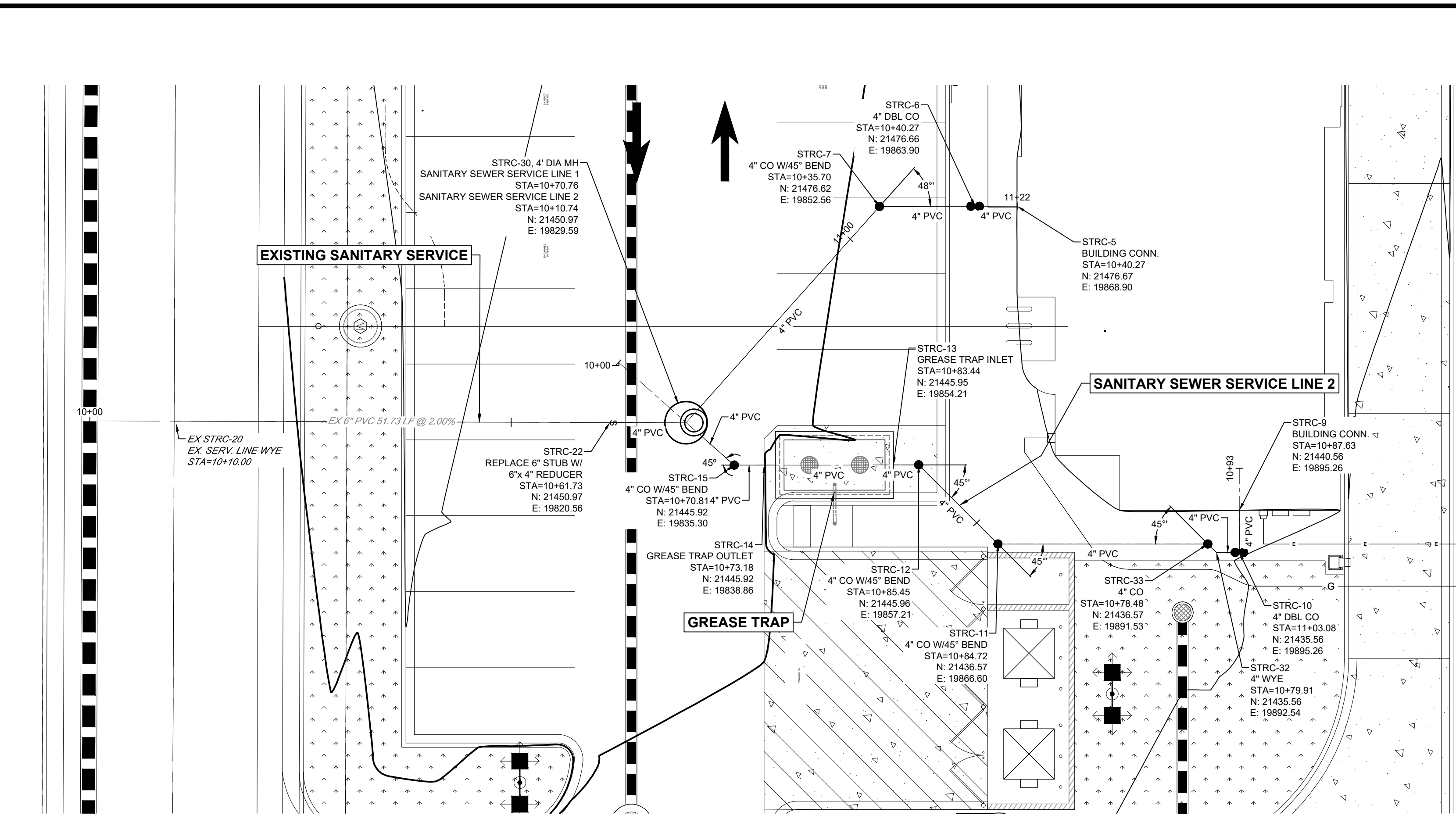
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34733 S. BROADWAY
DENVER, CO 80113
303.703.4444
LIVEYOURCORE.COM

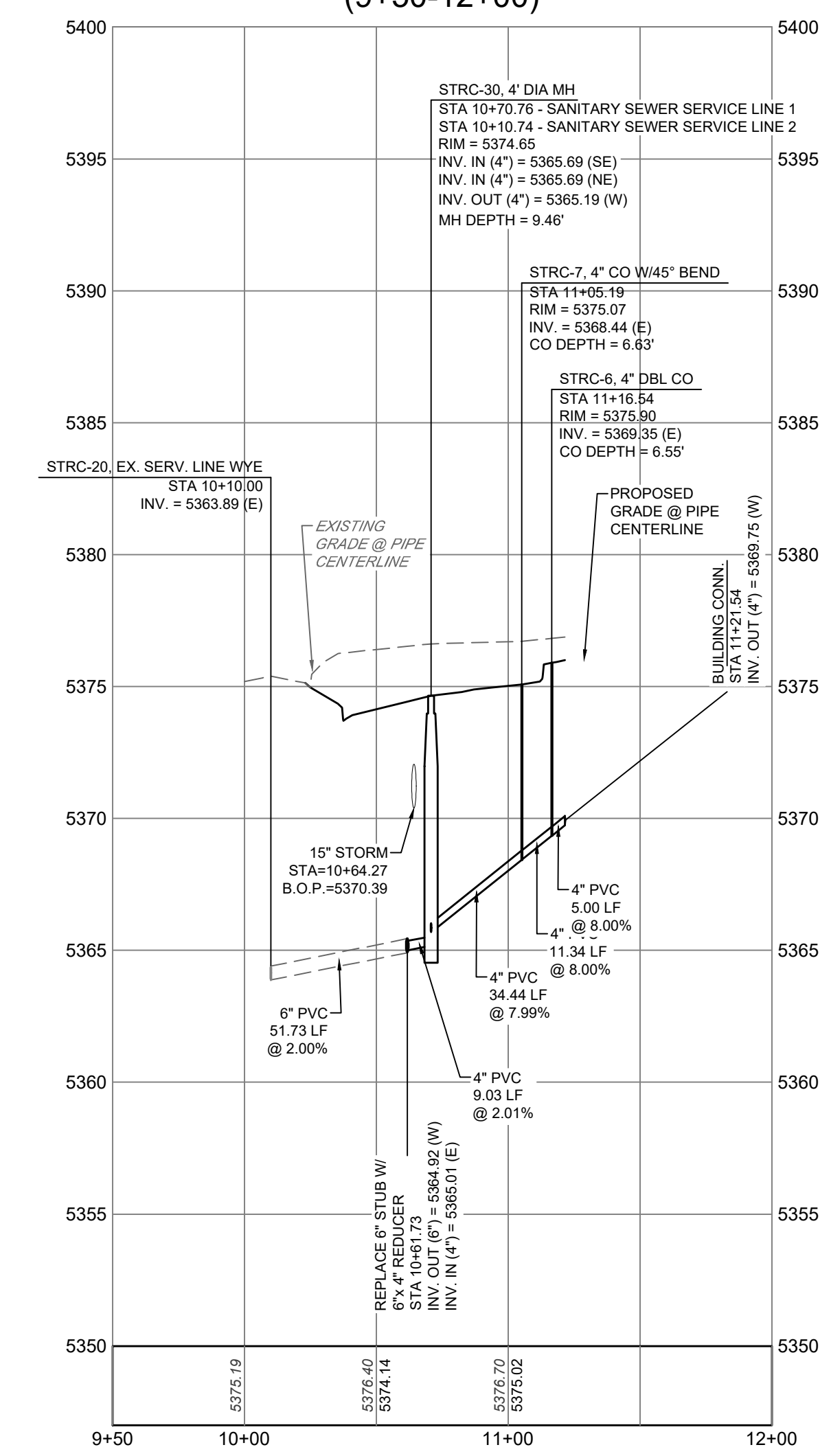
LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE

2022-PM-0000312
2023-EC-0000159
2023-SSPR-0000210
2024-SUDP-0001681
TOWER JACK IN THE BOX STORE #8166

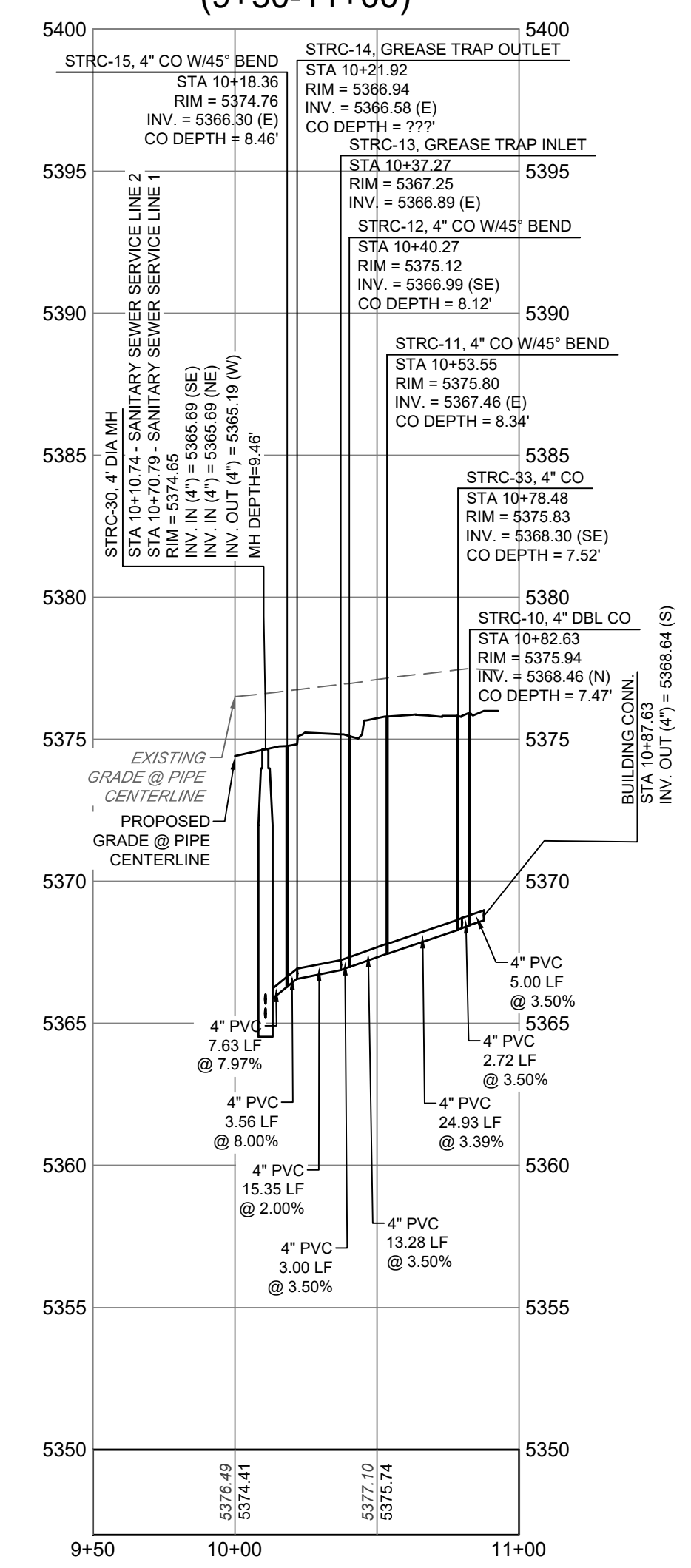


- LEGEND**
- EASEMENT
 - RIGHT OF WAY (R.O.W.)
 - CENTERLINE
 - PROJECT BOUNDARY
 - PROPOSED CURB & GUTTER
 - PROPOSED SANITARY & STUB OUT
 - EXISTING SANITARY & STUB OUT
 - SANITARY SERVICE
 - WATER SERVICE
 - PROPOSED WATER & STUB OUT
 - EXISTING WATER & STUB OUT
 - PROPOSED STORM & STUB OUT
 - EXISTING STORM & STUB OUT
 - SANITARY MANHOLES
 - SANITARY CLEAN OUT
 - CRUSHER FINES
 - MAINTENANCE ACCESS
 - BLOCK NUMBER

SANITARY SEWER SERVICE LINE 1 (9+50-12+00)



SANITARY SEWER SERVICE LINE 2 (9+50-11+00)



FOR REFERENCE ONLY
SEE SUDP FOR PERMIT DRAWINGS



2
9
0
1
6

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2022-PM-0000312
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TOWER JACK IN THE BOX STORE #8166

CORE CONSULTANTS, INC.
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CORE

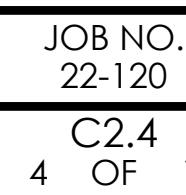
Know what's below.
Call before you dig.
811

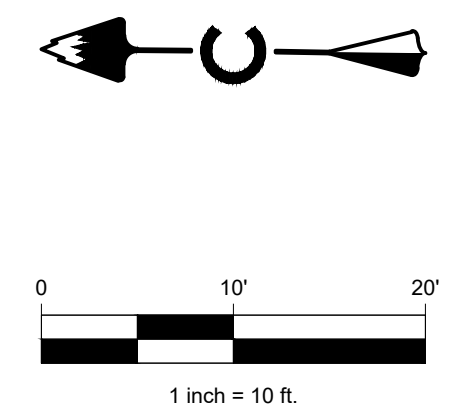
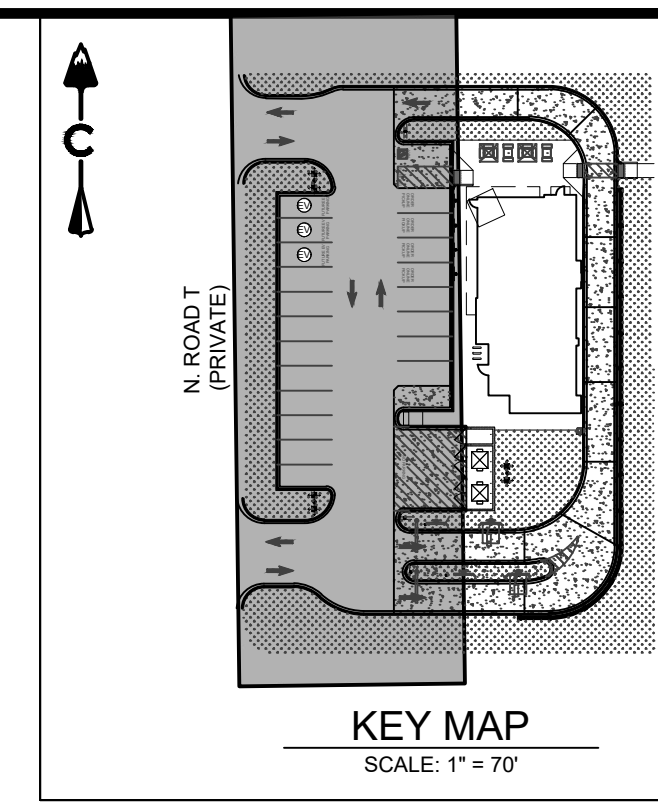
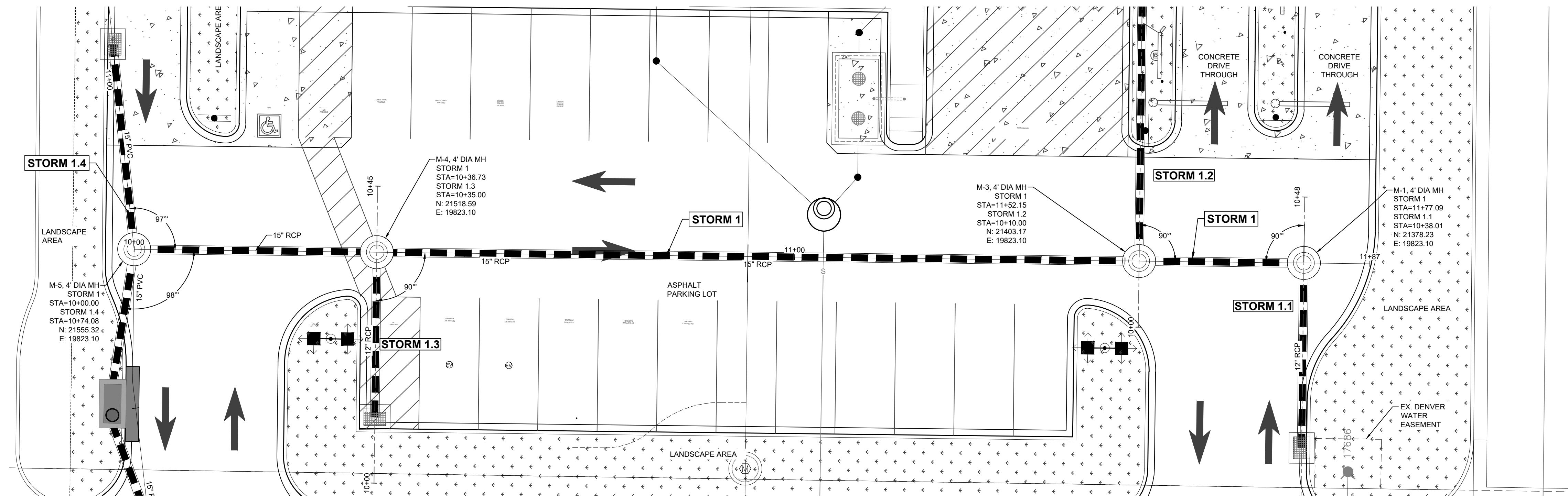
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TOWER JACK IN THE BOX STORE #8166
CITY AND COUNTY OF DENVER, CO
WASTEWATER ENGINEERING PLANS
SANITARY P&P

DENVER
THE MILE HIGH CITY

DESIGNED BY: TY	JOB NO. 22-120
DRAWN BY: TY	C2.3
CHECKED BY: JRS	3 OF 10



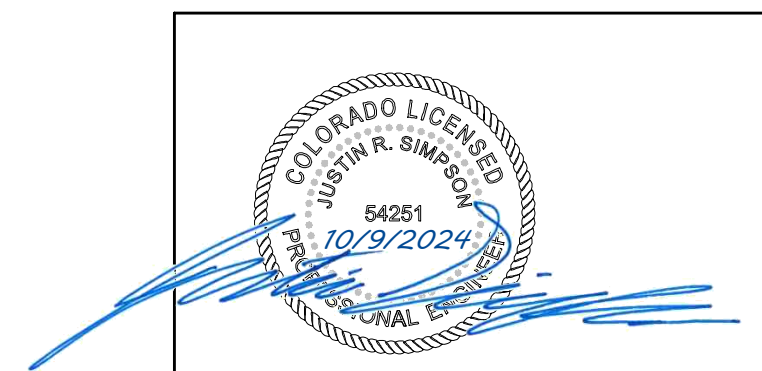
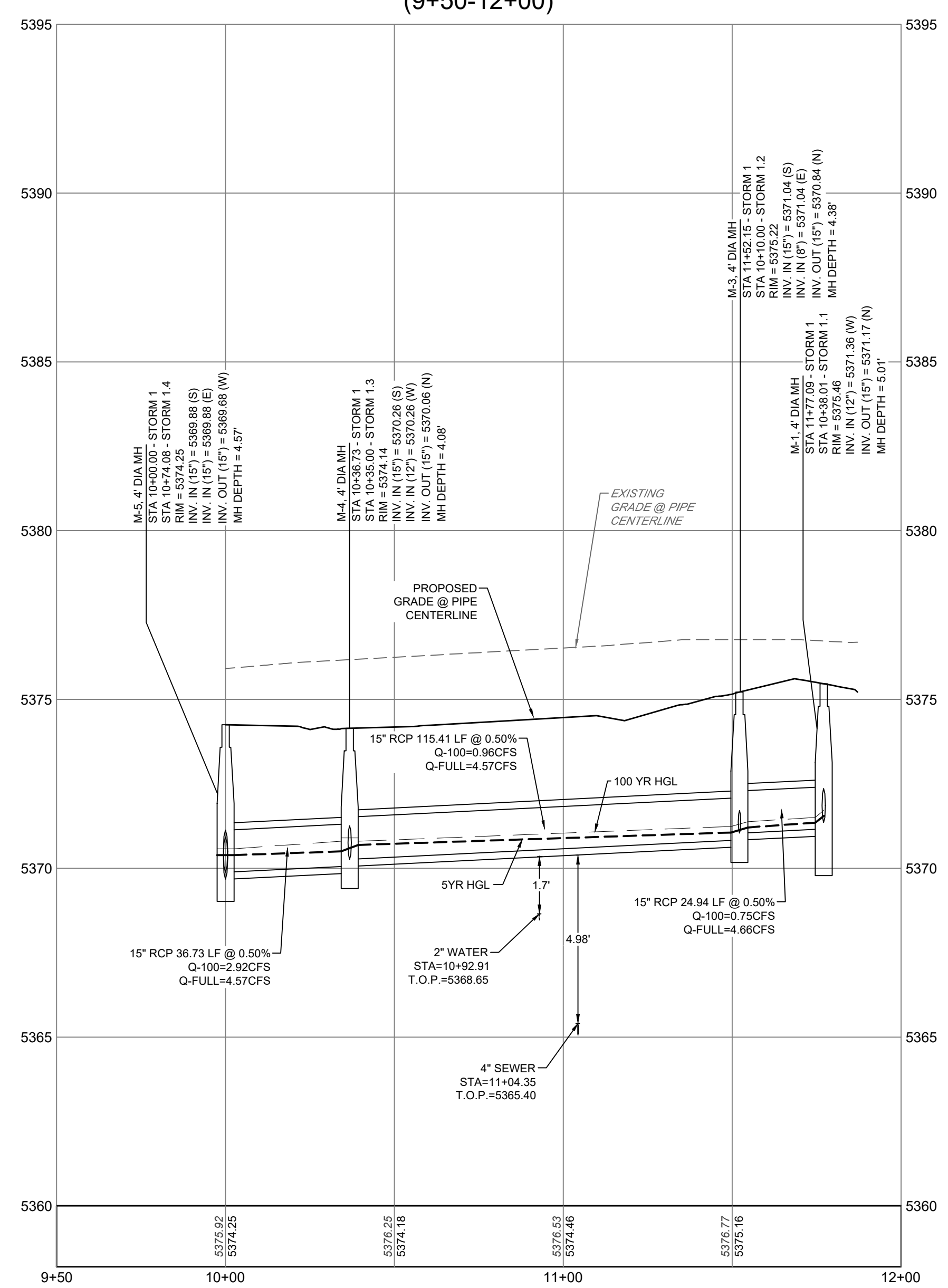


PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- PROPOSED SANITARY & STUB OUT
- EXISTING SANITARY & STUB OUT
- SANITARY SERVICE
- WATER SERVICE
- PROPOSED WATER & STUB OUT
- EXISTING WATER & STUB OUT
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT
- FUTURE STORM & STUB OUT
- STORM MAJOR HGL
- STORM MINOR HGL
- STORM UNDERDRAIN
- STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES
- MAINTENANCE ACCESS
- RIPRAP
- BLOCK NUMBER
- 100 YEAR FLOODPLAIN
- WETLAND

STORM I
(9+50-12+00)



JUSTIN R. SIMPSON, P.E. 54251		DATE: 10/8/2024	
DES PROJ NO: 2022PM0000312 /2023-SSPR-0000210			
PROJECT NAME: TOWER JACK IN THE BOX #8166			
DESIGNED BY: TY	DATE: 8/29/2023	DATE ISSUED:	DRAWING NO.
DRAWN BY: TY	DATE: 8/29/2023		5
CHECKED BY: JRS	DATE: 10/8/2024		

2022-PM-0000312
2023-EC-0000159
2023-SSPR-0000210
2024-SUDP-0001681
TOWER JACK IN THE BOX STORE #8166

CORE CONSULTANTS, INC.
34733 S. ROADWAY
DENVER, CO 80113
303.703.4444
LIVEYOURCORE.COM

CORE

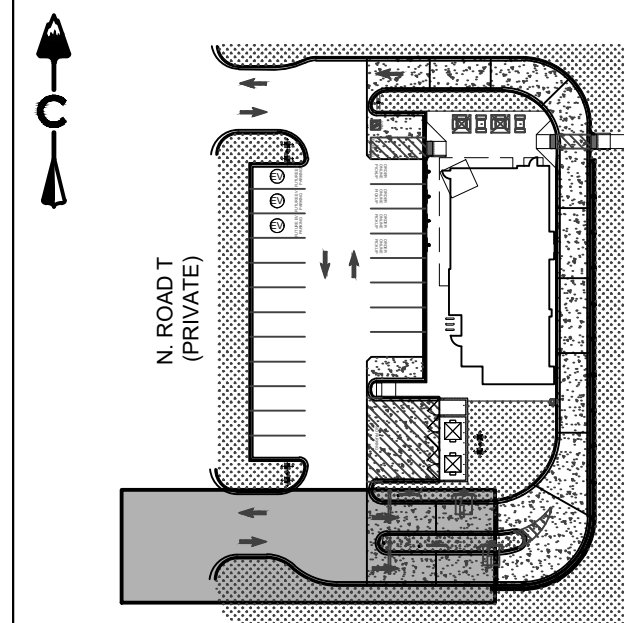
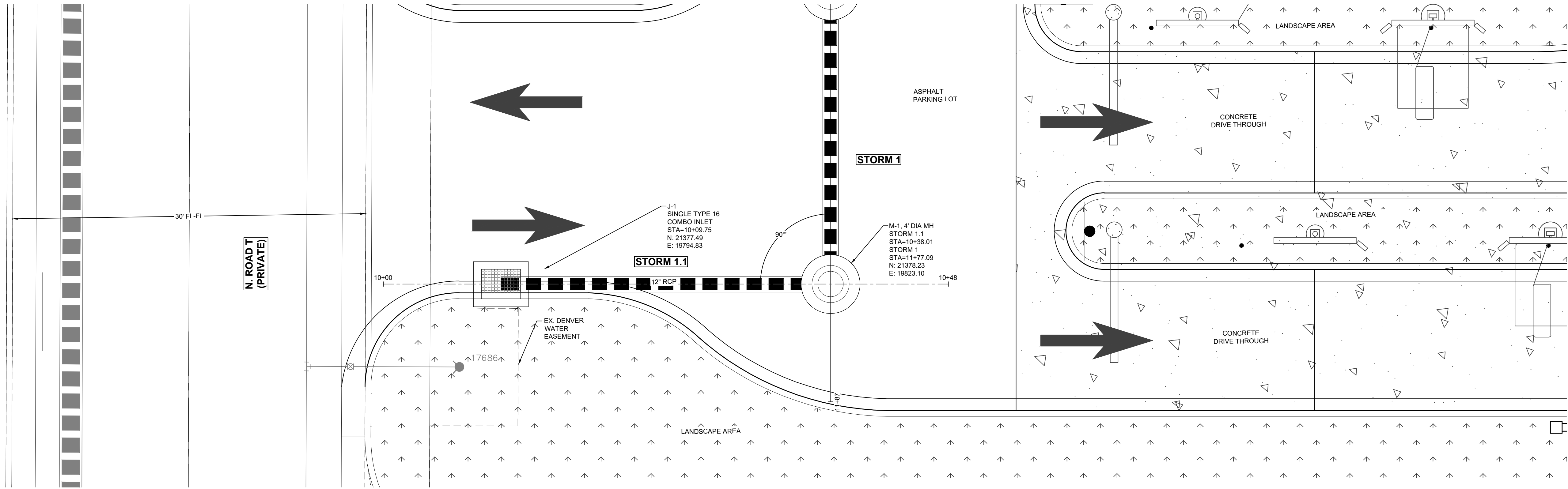
Know what's below.
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#	REVISION DESCRIPTION	DATE	BY
1	PERMIT SUBMITTAL	10/8/24	JRS

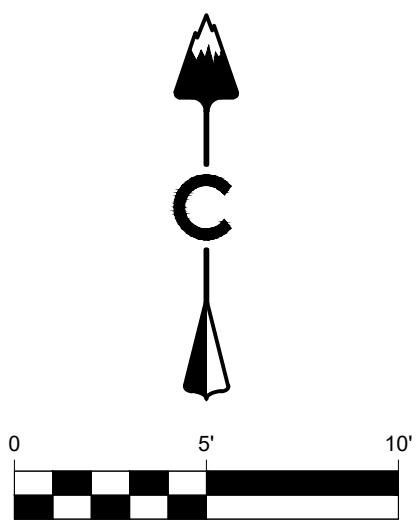
TOWER JACK IN THE BOX STORE #8166
CITY AND COUNTY OF DENVER, CO
WASTEWATER ENGINEERING PLANS
STORM P&P - STORM 1

DENVER
THE MILE HIGH CITY

DESIGNED BY: TY	JOB NO. 22-120
DRAWN BY: TY	C2.5
CHECKED BY: JRS	5 OF 10



KEY MAP
SCALE: 1" = 70'

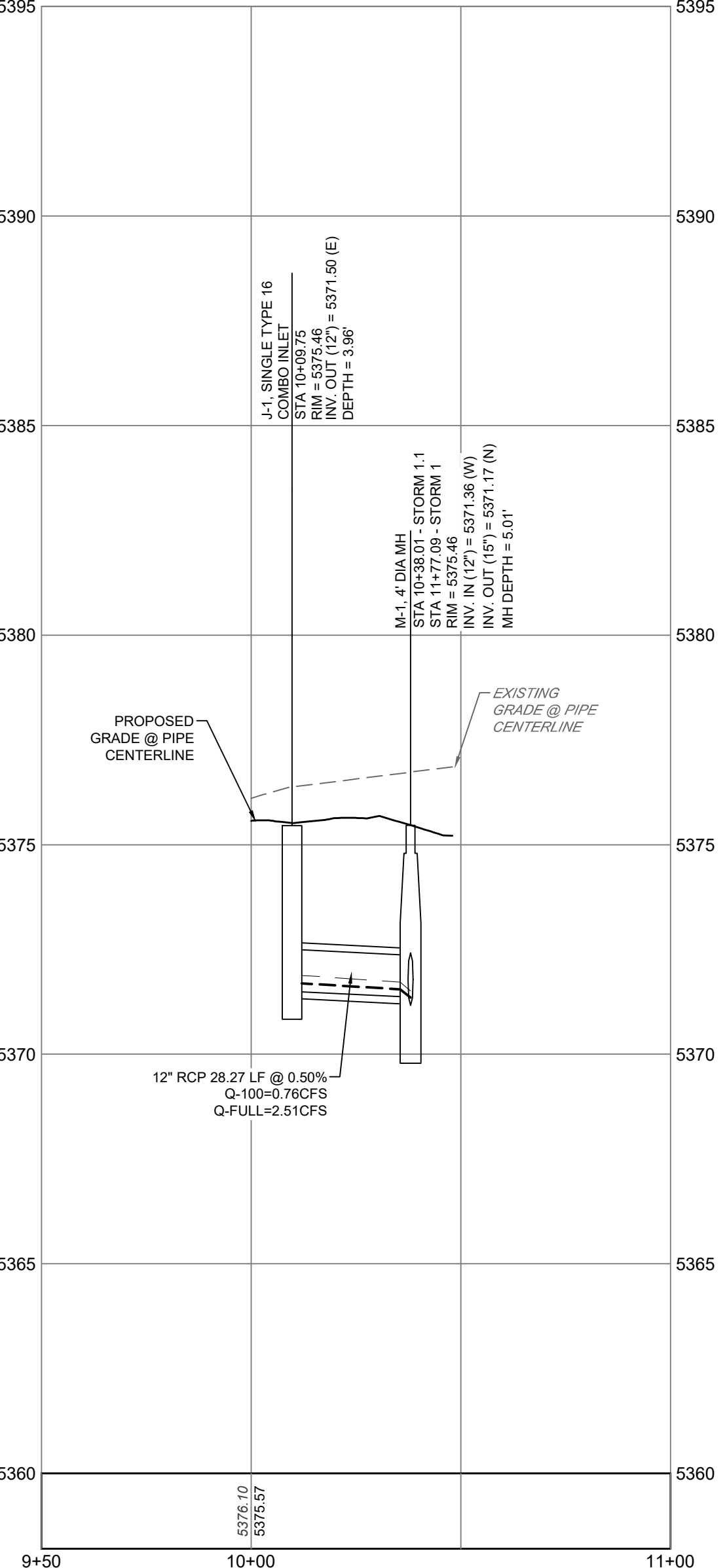


PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

LEGEND

- EASEMENT
- RIGHT OF WAY (R.O.W.)
- CENTERLINE
- PROJECT BOUNDARY
- PROPOSED CURB & GUTTER
- PROPOSED SANITARY & STUB OUT
- EXISTING SANITARY & STUB OUT
- SANITARY SERVICE
- WATER SERVICE
- PROPOSED WATER & STUB OUT
- EXISTING WATER & STUB OUT
- PROPOSED STORM & STUB OUT
- EXISTING STORM & STUB OUT
- FUTURE STORM & STUB OUT
- STORM MAJOR HGL
- STORM MINOR HGL
- STORM UNDERDRAIN
- EXISTING STORM MANHOLES
- PROPOSED STORM MANHOLES
- STORM INLETS
- FES, FOREBAY, & TRICKLE CHANNEL
- OUTLET STRUCTURE
- CRUSHER FINES
- MAINTENANCE ACCESS
- RIPRAP
- BLOCK NUMBER
- 100 YEAR FLOODPLAIN
- WETLAND

STORM 1.1 (9+50-11+00)



JUSTIN R. SIMPSON, P.E. 54251		DATE: 10/8/2024	
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PROJECT NAME: TOWER JACK IN THE BOX #8166			
DESIGNED BY: TY	DATE: 8/29/2023	DATE ISSUED:	DRAWING N
DRAWN BY: TY	DATE: 8/29/2023		6
CHECKED BY: JRS	DATE: 10/8/2024	SHEET 6 OF 10 SHEETS	

2022-PM-0000312
2023-EC-0000159
2023-SSPR-0000210
2024-SUDP-0001681

TOWER JACK IN THE BOX STORE #8166



#	REVISION	DESCRIPTION	DATE	BY
1	PERMIT SUBMITTAL		10/8/24	JRS

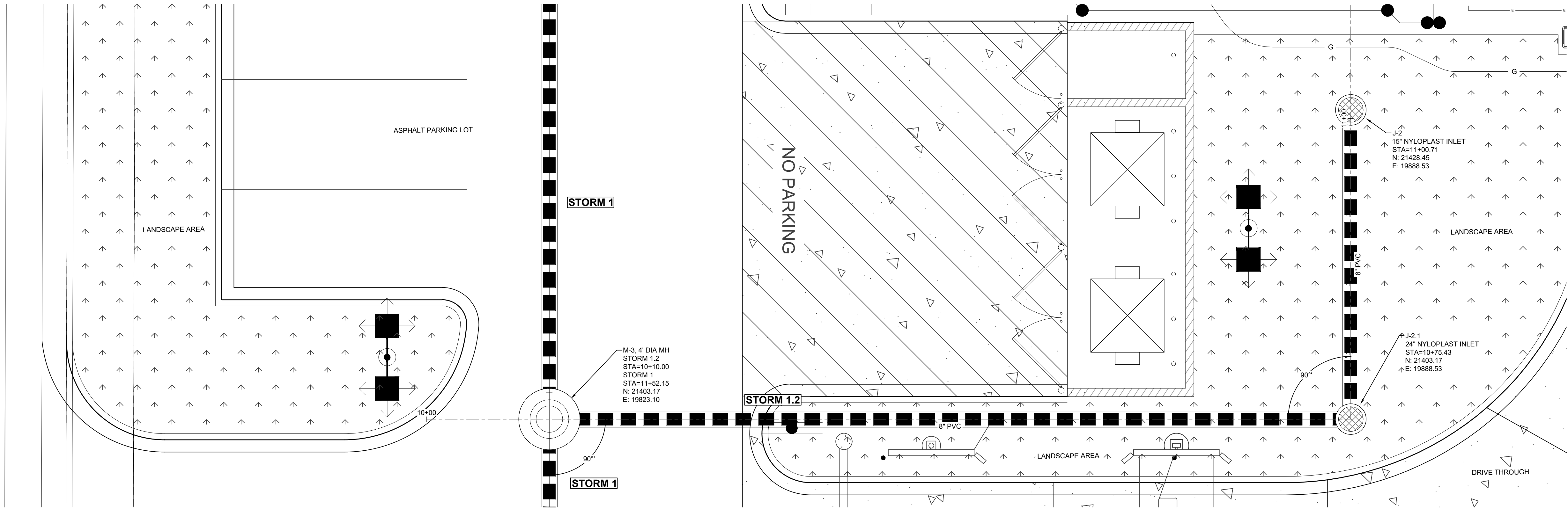
TOWER JACK IN THE BOX STORE #8166
CITY AND COUNTY OF DENVER, CO
WASTEWATER ENGINEERING PLANS
STORM P&P - STORM 1.1



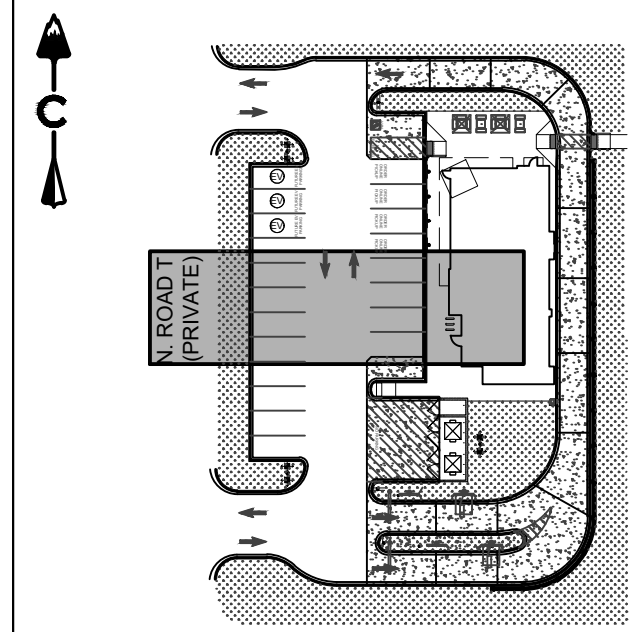
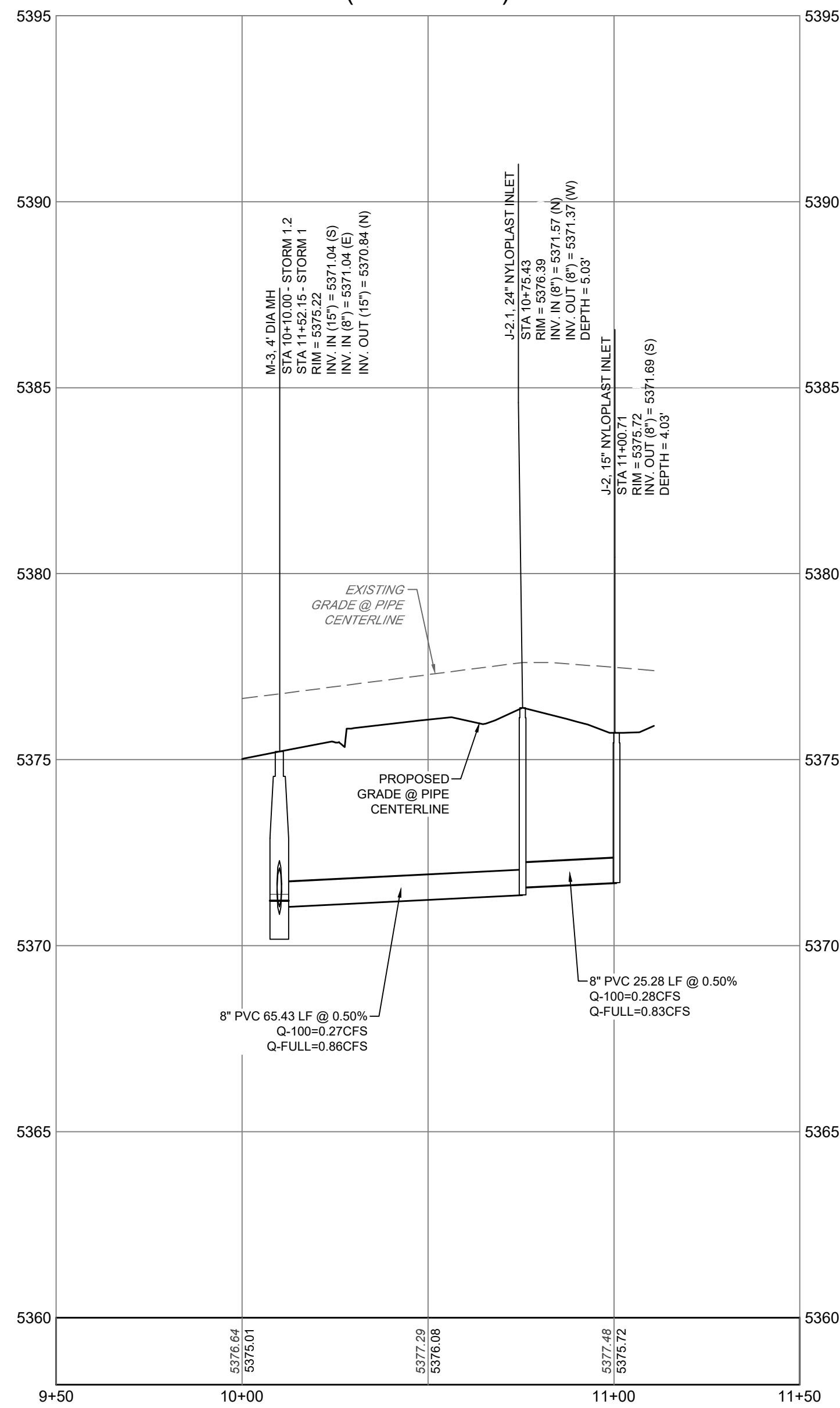
DESIGNED BY: TY	JOB NO. 22-120
DRAWN BY: TY	C2.6
CHECKED BY: JRS	6 OF 10



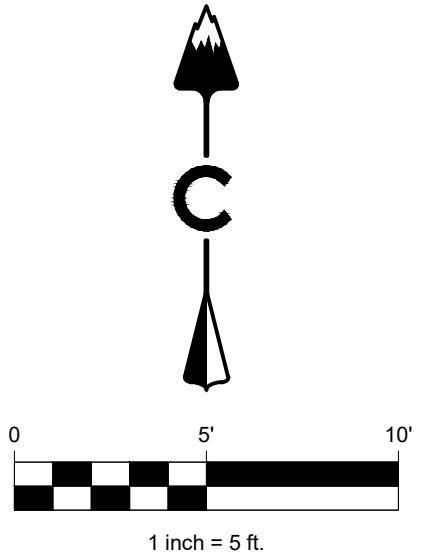
N. ROAD T
(PRIVATE)



STORM I.2 (9+50-11+50)



KEY MAP
SCALE: 1" = 70'



PROFILE
HORIZ: 1" = 50'
VERT: 1" = 5'

LEGEND

- EASEMENT
 - RIGHT OF WAY (R.O.W.)
 - CENTERLINE
 - PROJECT BOUNDARY
 - PROPOSED CURB & GUTTER
 - PROPOSED SANITARY & STUB OUT
 - EXISTING SANITARY & STUB OUT
 - SANITARY SERVICE
 - WATER SERVICE
 - PROPOSED WATER & STUB OUT
 - EXISTING WATER & STUB OUT
 - PROPOSED STORM & STUB OUT
 - EXISTING STORM & STUB OUT
 - FUTURE STORM & STUB OUT
 - STORM MAJOR HGL
 - STORM MINOR HGL
 - STORM UNDERDRAIN
- EXISTING PROPOSED
- STORM MANHOLES
 - STORM INLETS
 - FES, FOREBAY, & TRICKLE CHANNEL
 - OUTLET STRUCTURE
 - CRUSHER FINES
 - MAINTENANCE ACCESS
 - RIPRAP
 - BLOCK NUMBER
 - 100 YEAR FLOODPLAIN
 - WETLAND



JUSTIN R. SIMPSON, P.E. 54251 DATE: 10/8/2024

DES PROJ NO: 2022PM0000312 /2023-SSPR-0000210

PROJECT NAME: TOWER JACK IN THE BOX #8166

DESIGNED BY: TY	DATE: 8/29/2023	DATE ISSUED:	DRAWING NO.
DRAWN BY: TY	DATE: 8/29/2023		7
CHECKED BY: JRS	DATE: 10/8/2024	SHEET 7 OF 10 SHEETS	

2022-PM-0000312
2023-EC-0000159
2023-SSPR-0000210
2024-SUDP-0001681

TOWER JACK IN THE BOX STORE #8166

CORE CONSULTANTS, INC.
34733 S. BROADWAY
DENVER, CO 80113
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TOWER JACK IN THE BOX STORE #8166
CITY AND COUNTY OF DENVER, CO
WASTEWATER ENGINEERING PLANS
STORM P&P - STORM I.2

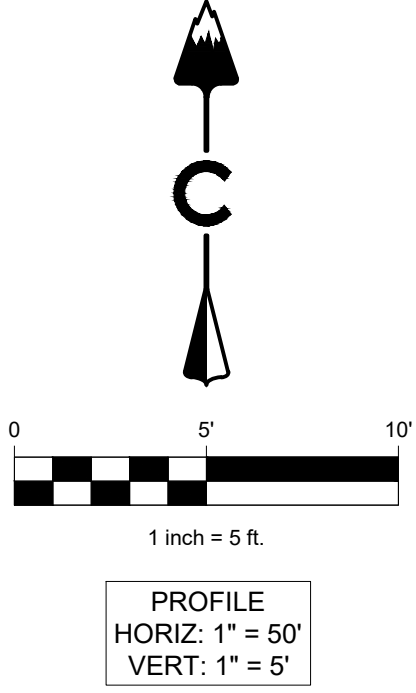
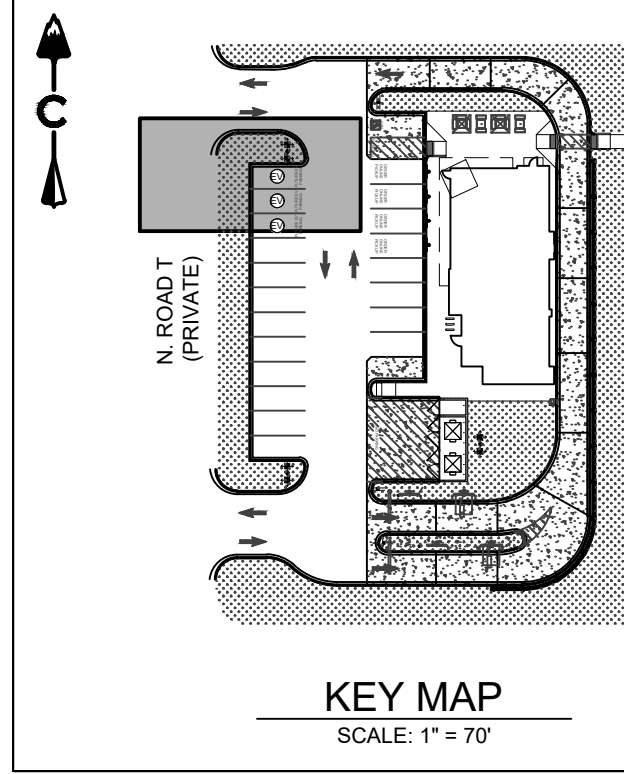
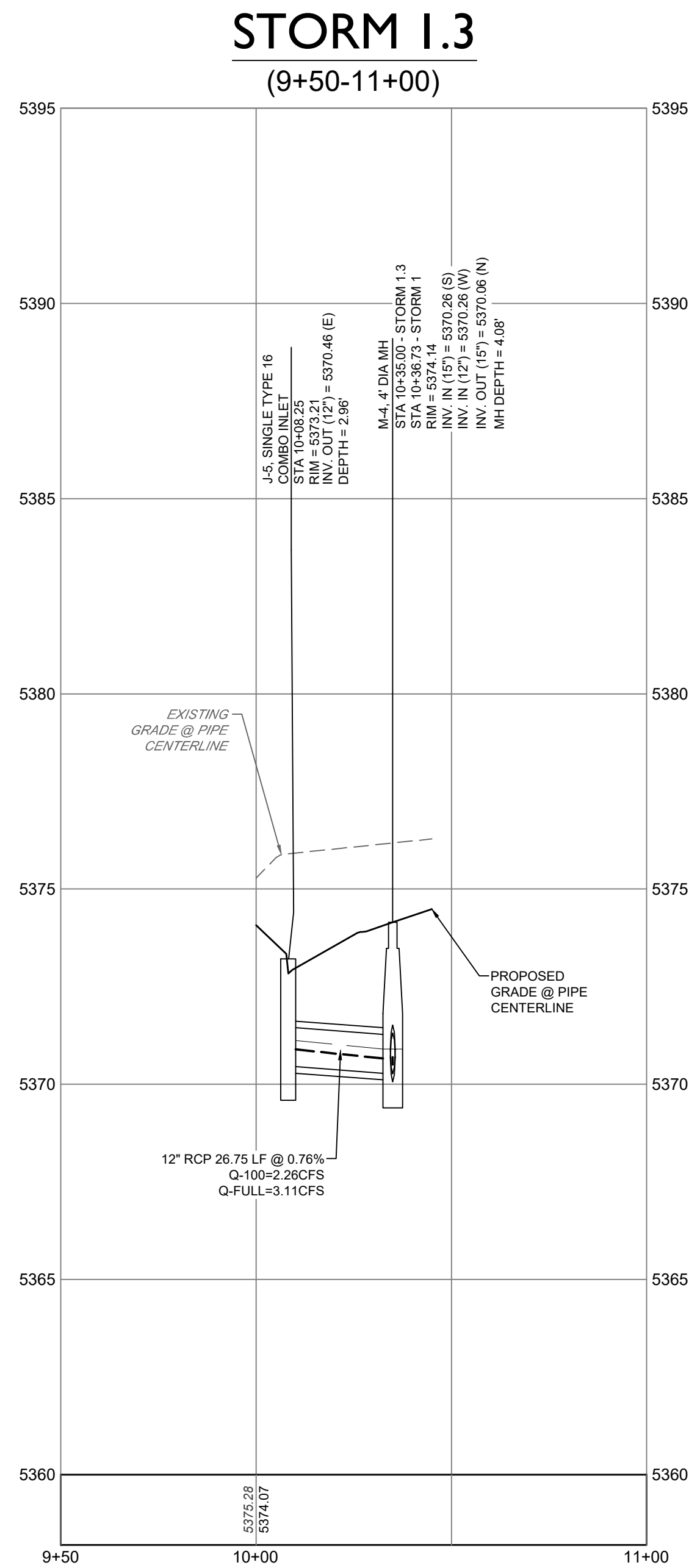
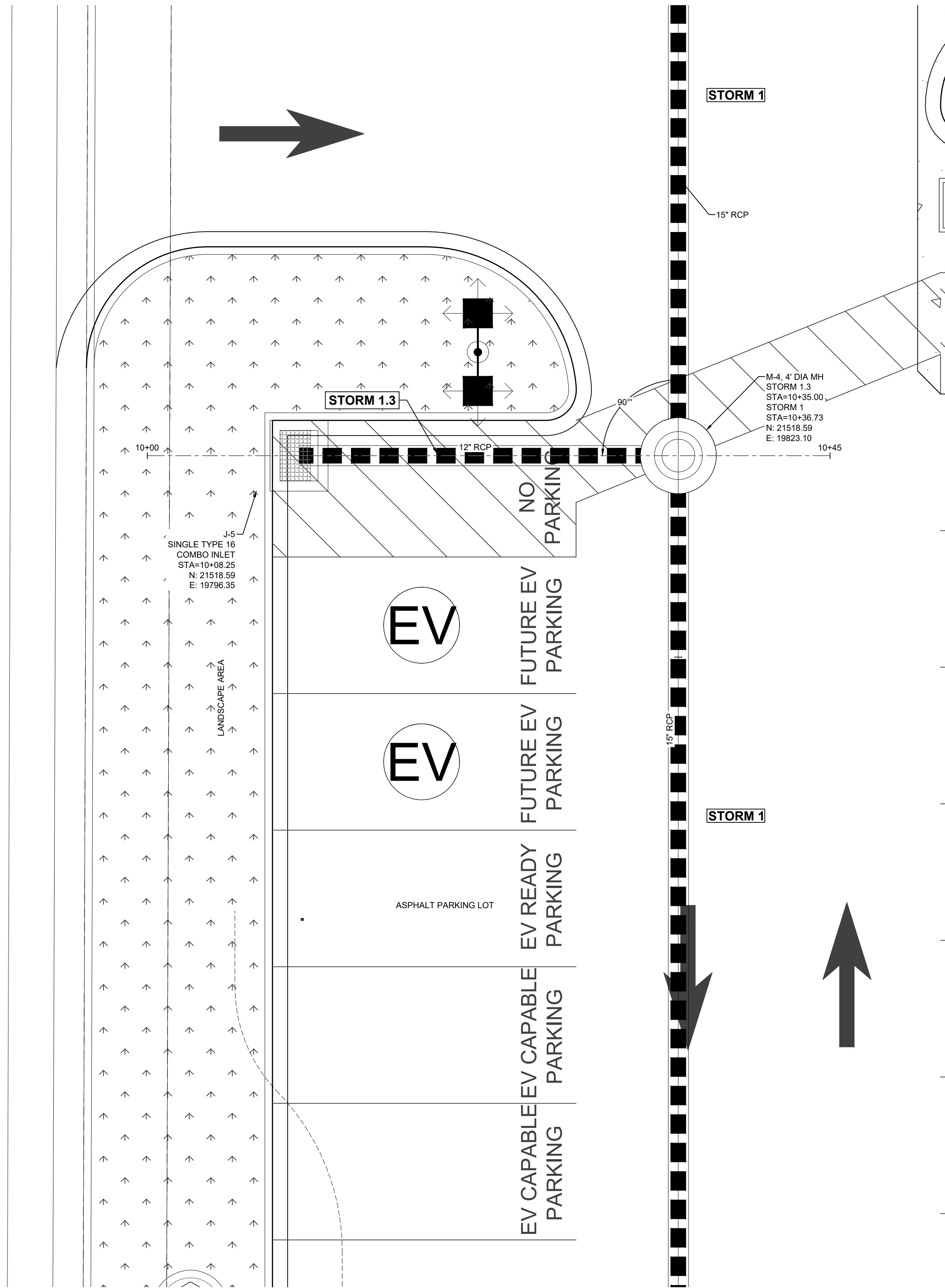


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DRAWN BY: TY
CHECKED BY: JRS

JOB NO.
22-120
C2.7
7 OF 10



N. ROAD T
(PRIVATE)



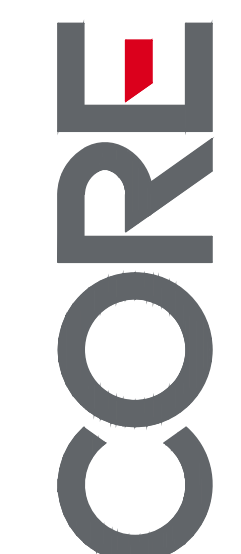
- LEGEND**
- EASEMENT
 - RIGHT OF WAY (R.O.W.)
 - CENTERLINE
 - PROJECT BOUNDARY
 - PROPOSED CURB & GUTTER
 - PROPOSED SANITARY & STUB OUT
 - EXISTING SANITARY & STUB OUT
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 - OUTLET STRUCTURE
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 - MAINTENANCE ACCESS
 - RIPRAP
 - BLOCK NUMBER
 - 100 YEAR FLOODPLAIN
 - WETLAND



JUSTIN R. SIMPSON, P.E. 54251		DATE: 10/8/2024	
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PROJECT NAME: TOWER JACK IN THE BOX #8166			
DESIGNED BY: TY	DATE: 8/29/2023	DATE ISSUED:	DRAWING N
DRAWN BY: TY	DATE: 8/29/2023	SHEET 8 OF 10 SHEETS	8
CHECKED BY: JRS	DATE: 10/8/2024		

2022-PM-0000312
2023-EC-0000159
2023-SSPR-0000210
2024-SUDP-0001681
TOWER JACK IN THE BOX STORE #8166

CORE CONSULTANTS, INC.
3473 S. BROADWAY
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303.703.4444
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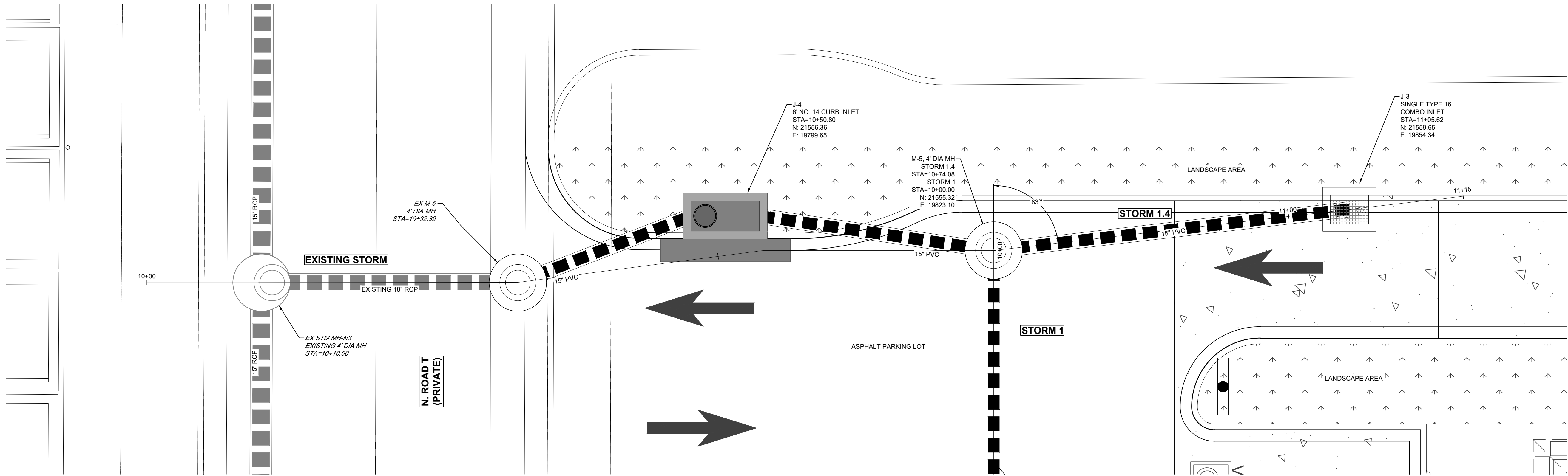


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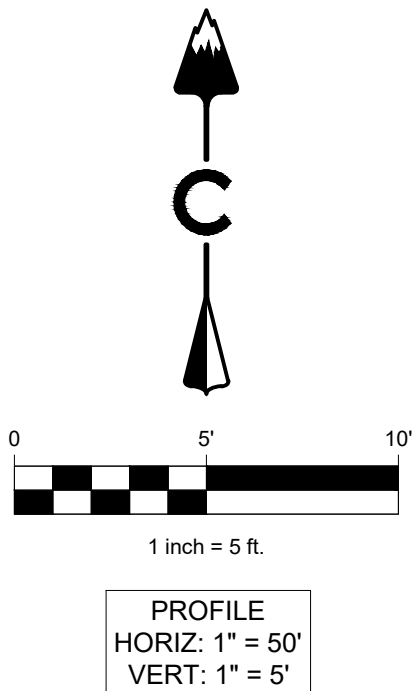
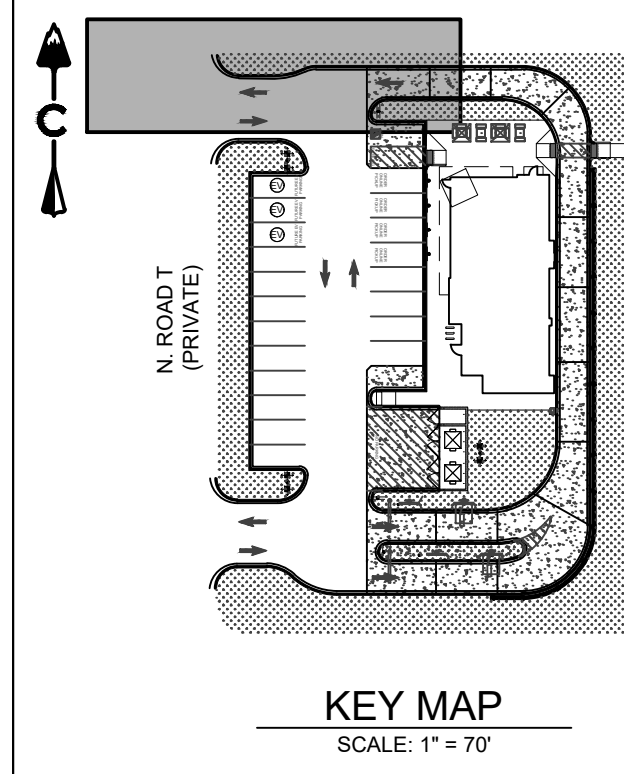
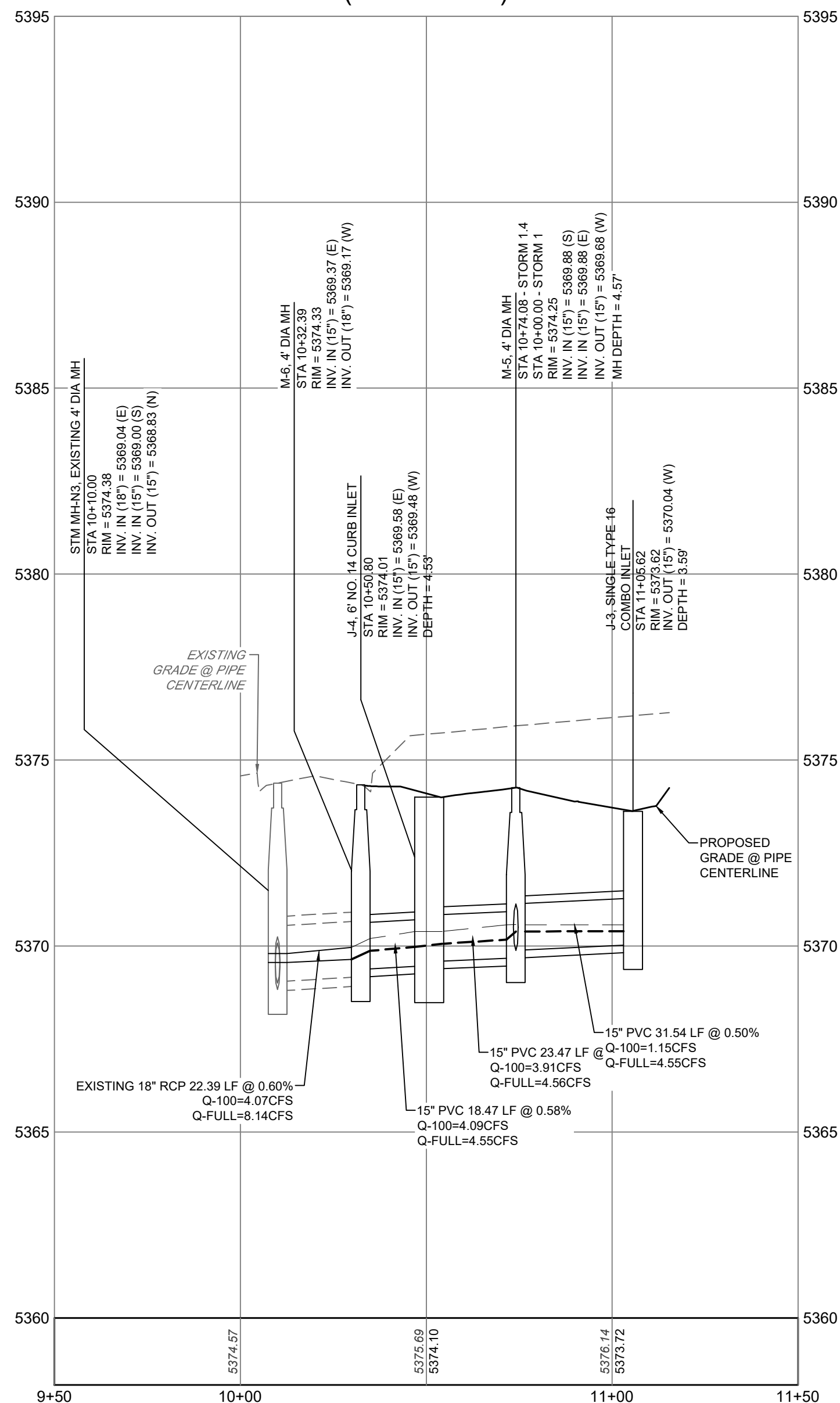
TOWER JACK IN THE BOX STORE #8166
CITY AND COUNTY OF DENVER, CO
WASTEWATER ENGINEERING PLANS
STORM P&P - STORM 1.3



DESIGNED BY: TY	JOB NO. 22-120
DRAWN BY: TY	C2.8
CHECKED BY: JRS	8 OF 10



STORM I.4
(9+50-11+50)



LEGEND

- EASEMENT
 - RIGHT OF WAY (R.O.W.)
 - CENTERLINE
 - PROJECT BOUNDARY
 - PROPOSED CURB & GUTTER
 - PROPOSED SANITARY & STUB OUT
 - EXISTING SANITARY & STUB OUT
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JUSTIN R. SIMPSON, P.E. 54251		DATE: 10/8/2024	
DES PROJ NO: 2022PM0000312 /2023-SSPR-0000210			
PROJECT NAME: TOWER JACK IN THE BOX #8166			
DESIGNED BY: TY	DATE: 8/29/2023	DATE ISSUED:	DRAWING
DRAWN BY: TY	DATE: 8/29/2023	SHEET 9 OF 10 SHEETS	9
CHECKED BY: JRS	DATE: 10/8/2024		

2022-PM-0000312
2023-EC-0000159
2023-SSPR-0000210
2024-SUDP-0001681
TOWER JACK IN THE BOX STORE #8166

CORE CONSULTANTS, INC.
3473 S. BROADWAY
DENVER, CO 80113
303.703.4444
LIVE@CORE.COM

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#	REVISION DESCRIPTION	DATE	BY
1	PERMIT SUBMITTAL	10/8/24	JRS

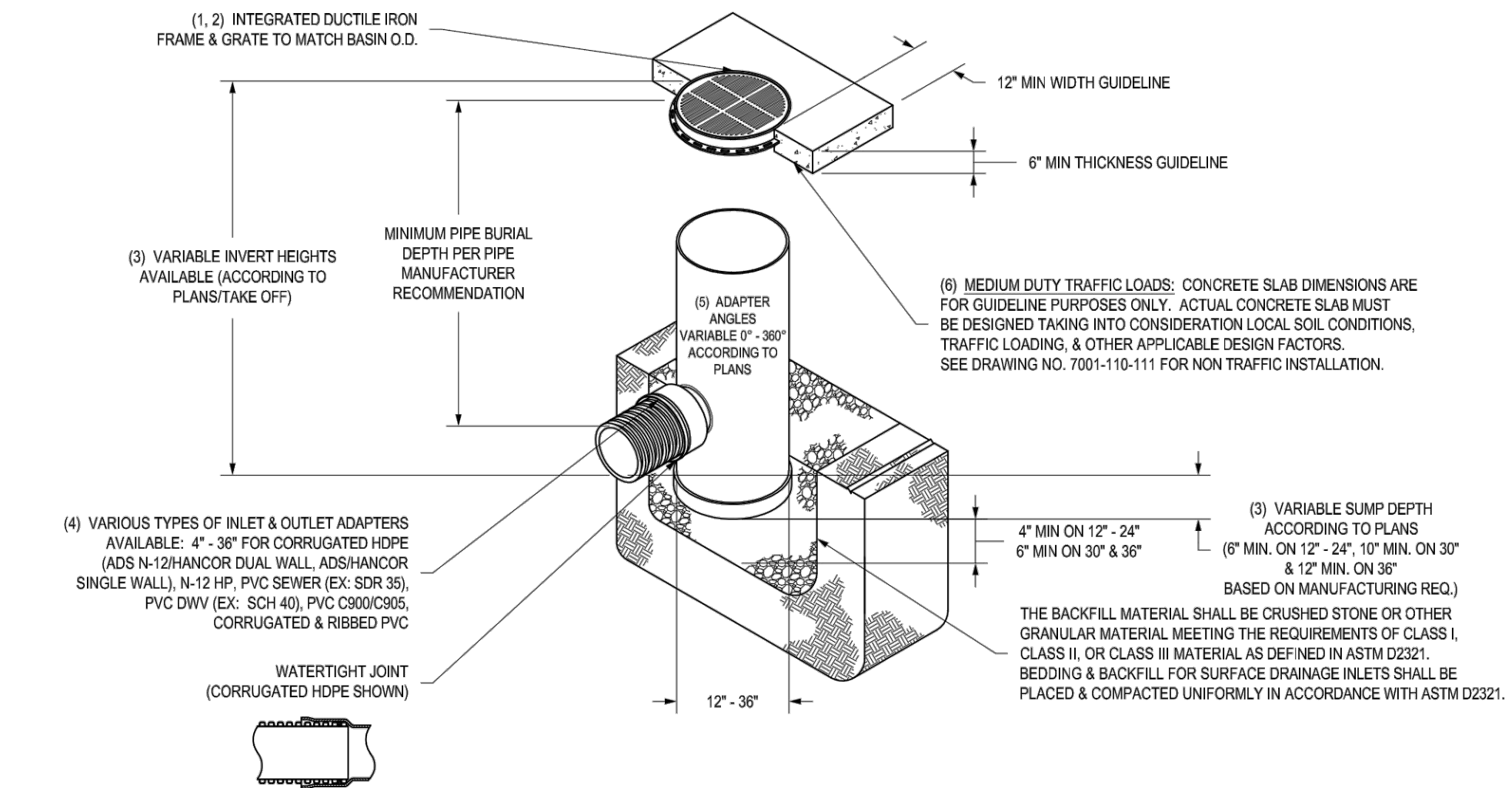
TOWER JACK IN THE BOX STORE #8166
CITY AND COUNTY OF DENVER, CO
WASTEWATER ENGINEERING PLANS
STORM P&P - STORM I.4

DENVER
THE MILE HIGH CITY

DESIGNED BY: TY	JOB NO. 22-120
DRAWN BY: TY	C2.9
CHECKED BY: JRS	9 OF 10



NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE



- 1 - 12" - 30" PEDESTRIAN GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 6" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-144.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D2212 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL, N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C800/C805, CORRUGATED & RIBBED PVC).
- 5 - ADAPTERS CAN BE MOUNTED 0° TO 30°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-142.
- 6 - 12" - 30" PEDESTRIAN GRATES SHALL MEET H-20 LOAD RATING. 30" PEDESTRIAN GRATE SHALL MEET H-20 LOAD RATING (SEE DRAWING NO. 7001-110-144 FOR H-20 TRAFFIC LOAD GUIDELINES).

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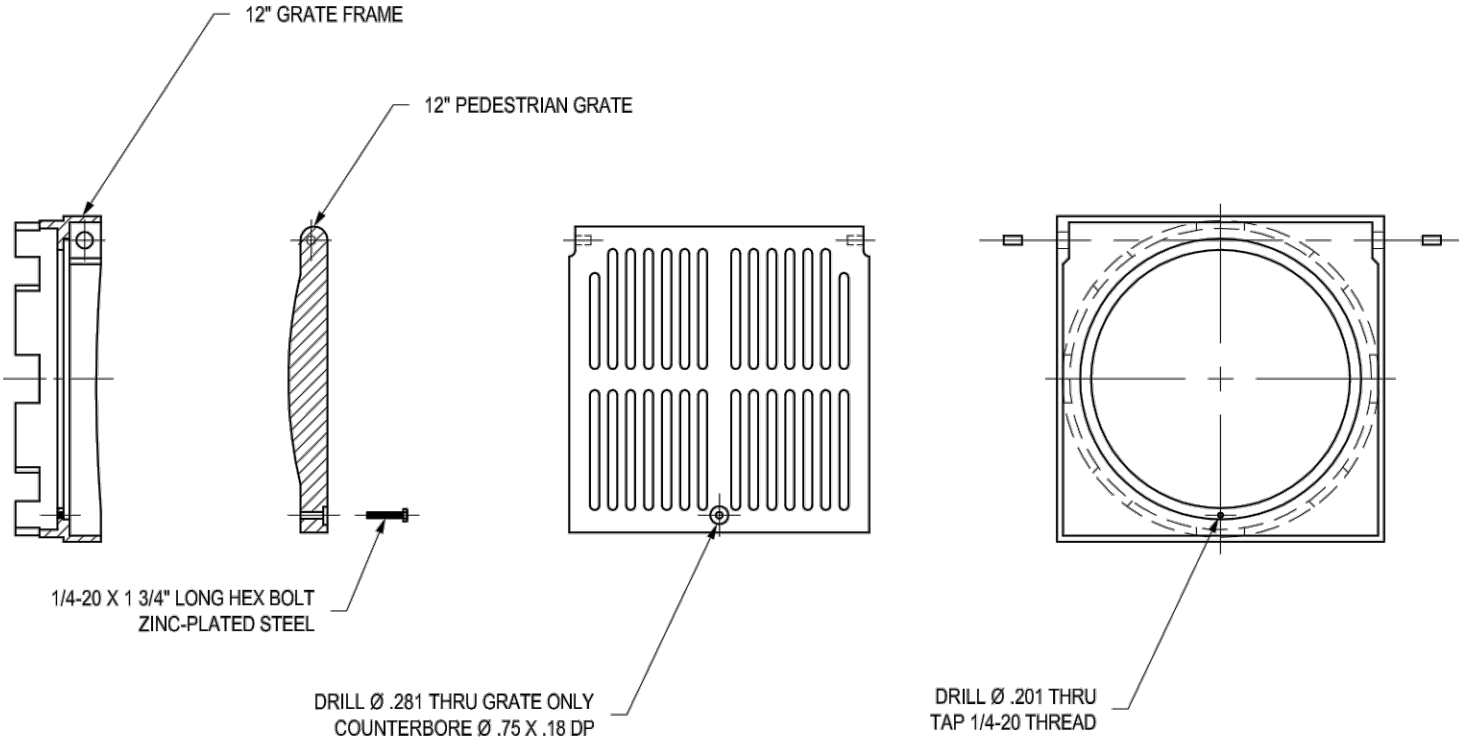
DRAWN BY EBC
DATE 4-20-07
REVISED BY NMH
DATE 06-12-18

MATERIAL PVC
PROJECT NO. NAME
DATE 06-12-18

ADS
Nyloplast
3150 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2400
www.nyloplast-us.com

TITLE
DRAIN BASIN WITH PEDESTRIAN GRATE
QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-283 REV E

1299CGPL



NOTE: LOCATION OF LOCKING DEVICE MAY VARY

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DRAWN BY AWA
DATE 7-5-00
REVISED BY EBC
DATE 2-20-10

MATERIAL
PROJECT NO. NAME
DATE 2-20-10

ADS
Nyloplast
3150 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2400
www.nyloplast-us.com

TITLE
12 IN PEDESTRIAN LOCKING GRATE ASSEMBLY
DWG NO. 7001-110-434 REV C

2022-PM-0000312
2023-EC-0000159
2023-SSPR-0000210
2024-SUDP-0001681

TOWER JACK IN THE BOX STORE #8166

JUSTIN R. SIMPSON, P.E. 54251		DATE: 10/8/2024	
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PROJECT NAME: TOWER JACK IN THE BOX #8166			
DESIGNED BY: TY	DATE: 8/29/2023	DATE ISSUED:	DRAWING NO.
DRAWN BY: TY	DATE: 8/29/2023		
CHECKED BY: JRS	DATE: 10/8/2024	SHEET 10 OF 10 SHEETS	10

TOWER JACK IN THE BOX STORE #8166

CITY AND COUNTY OF DENVER, CO

WASTEWATER ENGINEERING PLANS

DETAILS



DESIGNED BY: TY
DRAWN BY: TY
CHECKED BY: JRS

JOB NO.
22-120
C2.10
10 OF 10



#	REVISION DESCRIPTION	DATE	BY
1	PERMIT SUBMITTAL	10/8/24	JRS

CORE

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DENVER, CO 80113
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LAND DEVELOPMENT
ENERGY
PUBLIC INFRASTRUCTURE