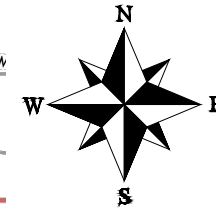
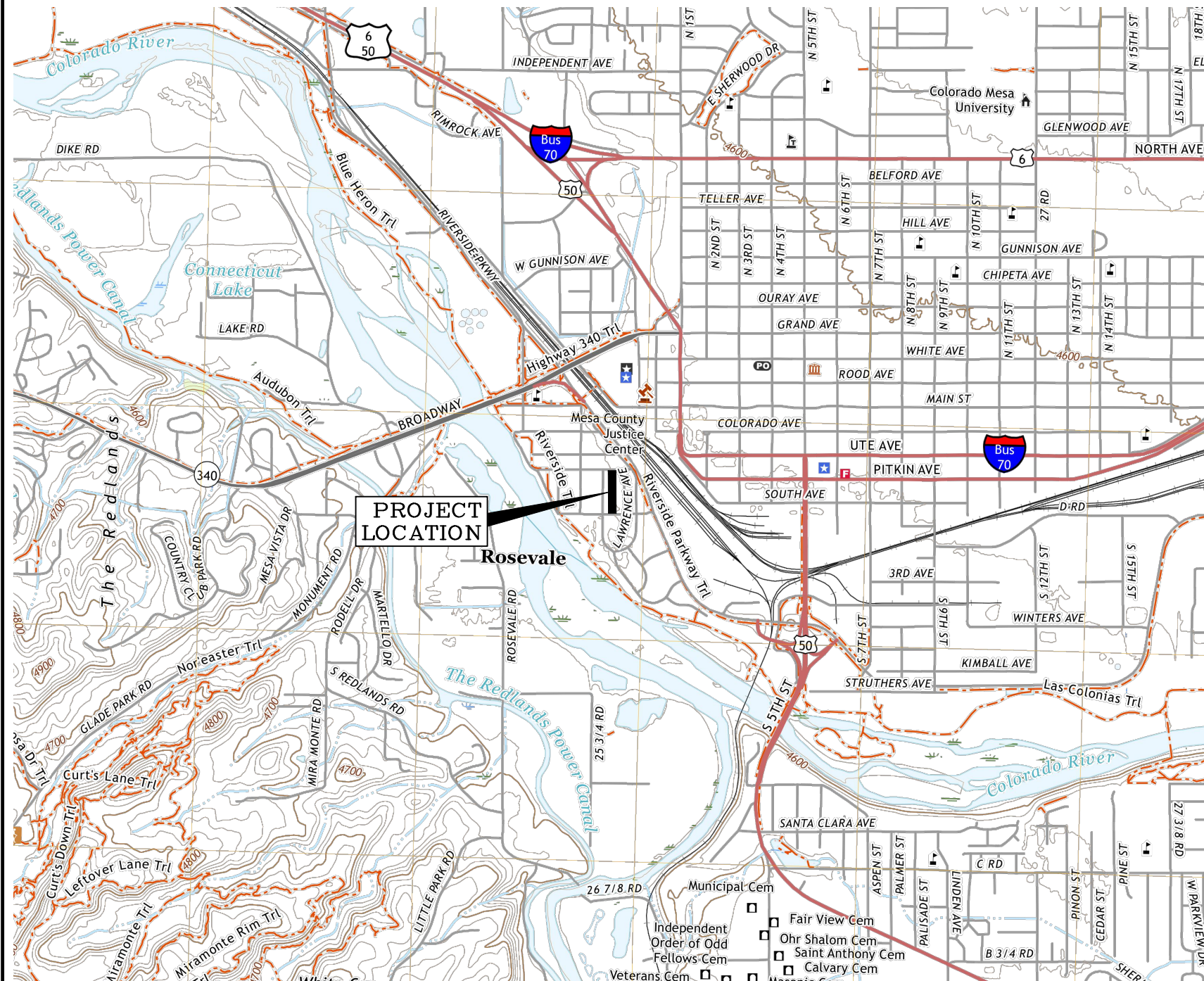


# CITY OF GRAND JUNCTION

## ST-22 CRAWFORD-ROCKAWAY ALLEY

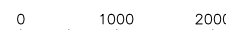
### July 6, 2023



#### Sheet Index

- 1 Cover Sheet
- 2 Standard Abbreviations, Legend, & Symbols
- 3 Summary of Earthwork Quantities
- 4 Summary of Approximate Quantities
- 5 Typical Pavement Details
- 6 Typical Cross Sections
- 7 Project Control Plan
- 8-10 Removal Plans
- 11-14 Utility Plans
- 15 Storm Drain Plan and Profile
- 16-18 Improvement Plans
- 19-23 Alley Profiles
- 24-28 Alley Cross Sections
- 29-31 Staking Plans
- 32-35 Storm Water Management Plans

VICINITY MAP



*Public Works  
Engineering Division*

NOTE: NOTIFY AFFECTED UTILITY VENDORS 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES.

	DESCRIPTION	DATE
REVISION	REV 1	
REVISION	REV 2	
REVISION	REV 3	
REVISION	REV 4	



Know what's below.  
Call before you dig.

# ABBREVIATIONS

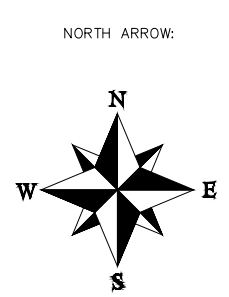
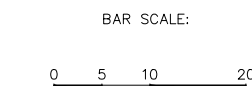
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
CL	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
FL	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUJ	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

# LEGEND

BSWMP DRAINAGE BASIN BOUNDARY		PROPOSED CONCRETE CURB AND GUTTER	
BSWMP ANCHORED STRAW BALES		PROPOSED CONCRETE CURB, GUTTER, & SIDEWALK	
BSWMP SILT FENCE		PROPOSED CONCRETE SIDEWALK	
BUILDING		PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN)	
CONCRETE CURB AND GUTTER		ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE	
CONCRETE CURB, GUTTER, & SIDEWALK			
CONCRETE DITCH			
CONCRETE SIDEWALK			
CULVERT			
EARTH DITCH			
EDGE OF GRAVEL			
EDGE OF PAVEMENT			
FENCE (HT & MATL NOTED)			
GUARD RAIL			
HATCHING: INDICATES ASPHALT REMOVAL			
HATCHING: INDICATES CONCRETE REMOVAL			
HATCHING: INDICATES STAGING AREA			
LINE (CENTER OF IMPROVEMENTS)			
LINE (CITY LIMITS)			
LINE (CONTROL)			
LINE (EASEMENT)			
LINE (MONUMENT/SECTION)			
LINE (PROPERTY)			
LINE (RIGHT OF WAY)			
MATCH LINE			
PIPE (IRRIGATION)			
PIPE (SIPHON)			
RAIL ROAD			
RETAINING WALL			
STRIPING (CONTINUOUS WHITE)			
STRIPING (DASHED WHITE)			
STRIPING (CONTINUOUS YELLOW)			
STRIPING (DASHED YELLOW)			
TOP OF SLOPE			
CONTOUR LINES (SHOWN BETWEEN TOP & TOE)			
TOE OF SLOPE			
TRAFFIC DETECTOR LOOP			
UTILITY LINE (ABANDON) (THIS CASE A WATER LINE)			
UTILITY LINE (CABLE TV)			
UTILITY LINE (ELECTRIC)			
UTILITY LINE (FIBER OPTIC)			
UTILITY LINE (GAS)			
UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER)			
UTILITY LINE (OVERHEAD POWER)			
UTILITY LINE (OVERHEAD TELEPHONE)			
UTILITY LINE (SANITARY SEWER)			
UTILITY LINE (SANITARY SEWER FORCE MAIN)			
UTILITY LINE (SANITARY SEWER SERVICE)			
UTILITY LINE (STORM SEWER)			
UTILITY LINE (STORM SEWER, PERFORATED)			
UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION)			
UTILITY LINE (TELEPHONE)			
UTILITY LINE (WATER)			

# SYMBOLS

BENCH MARK	
CATCH BASIN	
CLEAN OUT	
CURB STOP	
FIRE HYDRANT	
GUY WIRE ANCHOR	
HEADGATE	
IRRIGATION PUMP	
MAILBOX	
MANHOLE (ELECTRIC)	
MANHOLE (GAS)	
MANHOLE (SANITARY/STORM)	
MANHOLE (TELEPHONE)	
MANHOLE (TV)	
MANHOLE (WATER)	
METER (GAS)	
METER (WATER)	
PEDESTAL (TELEPHONE)	
PEDESTAL (TV)	
PROPERTY PIN	
PULL BOX	
REDUCER FITTING	
SIGN OR POST (SIGN TYPE NOTED)	
SPRINKLER HEAD	
STREET LIGHT	
SURVEY MONUMENT (CITY)	
SURVEY MONUMENT (TYPE NOTED)	
TEST HOLE	
TRAFFIC PAINT MARKING	
TRAFFIC SIGNAL POLE AND MAST ARM	
UTILITY POLE	
VALVE (GAS)	
VALVE (IRRIGATION)	
VALVE (WATER)	
VEGETATION (HEDGE OR BUSH)	
VEGETATION (TREE STUMP)	
VEGETATION (TREE) (CALIPER SIZE NOTED)	
WATER HYDRANT	
WEIR	
YARD LIGHT	



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION 1	REV 1	--	WC	2023
REVISION 2	REV 2	--	WC	2023
REVISION 3	REV 3	--	WC	2023
REVISION 4	REV 4	--	WC	2023

DESIGNED BY WC DATE 2023  
 CHECKED BY WC DATE 2023  
 APPROVED BY WC DATE 2023



PUBLIC WORKS ENGINEERING DIVISION  
 PROJECT NO. F000209

ST-22 CRAWFORD-ROCKAWAY ALLEY  
 STANDARD ABBREVIATIONS LEGENDS AND SYMBOLS  
 July 6, 2023

N:\ENGR\PROJ\F000209 (ALLEY IMPROVEMENT DISTRICTS)\ST-22 CRAWFORD ROCKAWAY ALLEY\60CAD\DESIGN\STANDARD ABBREVIATIONS LEGENDS AND SYMBOLS.DWG - PLOTTED 7/6/2023 11:06:28 AM

### SUMMARY OF EARTHWORK QUANTITIES

	PROJECT TOTAL	
	CU. YD.	<i>As Const.</i>
<b>203 UNCLASSIFIED EXCAVATION</b> (QUANTITY CALCULATED FROM CIVIL3D - TIN SUBTRACTION)		
UNCLASSIFIED EXCAVATION (ALLEY PAVEMENT AREA) CONCRETE AND PAVING PRISM	322	
<b>TOTAL FOR PAY QUANTITIES</b>	<b>322</b>	
<b>EMBANKMENT MATERIAL (CIP) (FOR INFORMATION ONLY)</b> QUANTITY CALCULATED FROM CIVIL3D - TIN SUBTRACTION	CU. YD.	
UNCLASSIFIED EMBANKMENT	0	
<b>TOTAL</b>	<b>0</b>	

	ROADWAY QUANTITIES BALANCE (FOR INFORMATION ONLY)		PROJECT TOTAL	
	CU. YD.	<i>As Const.</i>	CU. YD.	<i>As Const.</i>
Total Unclassified Excavation	322			
Total Embankment (net)	0			
EMBANKMENT TIMES FACTOR 1.3	0			
Export Material (Material to be exported by Contractor)	322			

Note:  
Excavation and fill attributable to the proposed storm drain is incidental to the cost of construction per Section 108.13, and is not included in the totals provided here.

REVISION	DESCRIPTION	DATE	DRAWN BY	WC	DATE	2023
REVISION $\Delta$ REV 1			DESIGNED BY	WC	DATE	2023
REVISION $\Delta$ REV 2			CHECKED BY	WC	DATE	2023
REVISION $\Delta$ REV 3			APPROVED BY	WC	DATE	2023
REVISION $\Delta$ REV 4						

NO SCALE



PUBLIC WORKS  
ENGINEERING DIVISION  
PROJECT NO. F000209

ST-22 CRAWFORD-ROCKAWAY ALLEY  
SUMMARY OF EARTHWORK QUANTITIES  
July 6, 2023



Know what's below.  
Call before you dig.

N:\ENGR\PROJ\F000209 (ALLEY IMPROVEMENT DISTRICTS)\ST-22 CRAWFORD ROCKAWAY ALLEY\60CAD\DESIGN\SUMMARY OF EARTHWORK QUANTITIES.DWG - PLOTTED 7/6/2023 11:06:31 AM



### Bid Schedule: ST-22 Crawford-Rockaway Alley

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	108.2	8" Storm Drain Pipe (SDR 35 PVC)	258.	LF	\$ _____	\$ _____
2	108.5	Storm Drain Shallow Manhole (48" I.D.) (Complete in Place)	1.	EA	\$ _____	\$ _____
3	108.6	Single Storm Drain Inlet (Vertical Curb)	1.	EA	\$ _____	\$ _____
4	108.6	Large Area Inlet	2.	EA	\$ _____	\$ _____
5	203	Unclassified Excavation	322.	CY	\$ _____	\$ _____
6	208	Erosion Control (Complete in Place)	Lump Sum		---	\$ _____
7	209	Dust Abatement	35.	Day	\$ _____	\$ _____
8	210	Reset Fences	136.	LF	\$ _____	\$ _____
9	210	Reset Landscape Ground Cover	Lump Sum		---	\$ _____
10	210	Adjust Electric Service	Lump Sum		---	\$ _____
11	304	Aggregate Base Course (Class 6) (6" Thick)	268.	SY	\$ _____	\$ _____
12	304	Subgrade Stabilization (Class 3 Aggregate Base Course)(Complete in Place) As Directed by Engineer	80.	Ton	\$ _____	\$ _____
13	306	Reconditioning (12" Deep)	1,098.	SY	\$ _____	\$ _____
14	412	Concrete Pavement (8" Thick) (Class P)	1,105.	SY	\$ _____	\$ _____
15	607	Gate (14' Wide) (Chain-link)	1.	EA	\$ _____	\$ _____
16	608	Concrete Curb with Spill Gutter (1.5' Wide)	8.	LF	\$ _____	\$ _____
17	608	Concrete Sidewalk (6" Thick)	9.	SY	\$ _____	\$ _____
18	620	Sanitary Facility	1.	EA	\$ _____	\$ _____
19	625	Construction Surveying (Includes As-Built Documentation)	Lump Sum		---	\$ _____
20	626	Mobilization	Lump Sum		---	\$ _____
21	630	Traffic Control Plan	Lump Sum		---	\$ _____
22	630	Traffic Control (Complete in Place)	35.	Day	\$ _____	\$ _____
23	G-56	Weekly Newsletters	6.	Week	\$ _____	\$ _____
MCR		Minor Contract Revisions	---	---	---	\$ 15,000.00

**Bid Amount:** \$ \_\_\_\_\_

**Bid Amount:** \_\_\_\_\_ dollars



Know what's below.  
Call before you dig.

REVISION $\Delta$ REV 1	DESCRIPTION	DATE	DRAWN BY WC	DATE 2023
REVISION $\Delta$ REV 2			DESIGNED BY WC	DATE 2023
REVISION $\Delta$ REV 3			CHECKED BY WC	DATE 2023
REVISION $\Delta$ REV 4			APPROVED BY WC	DATE 2023

NO SCALE

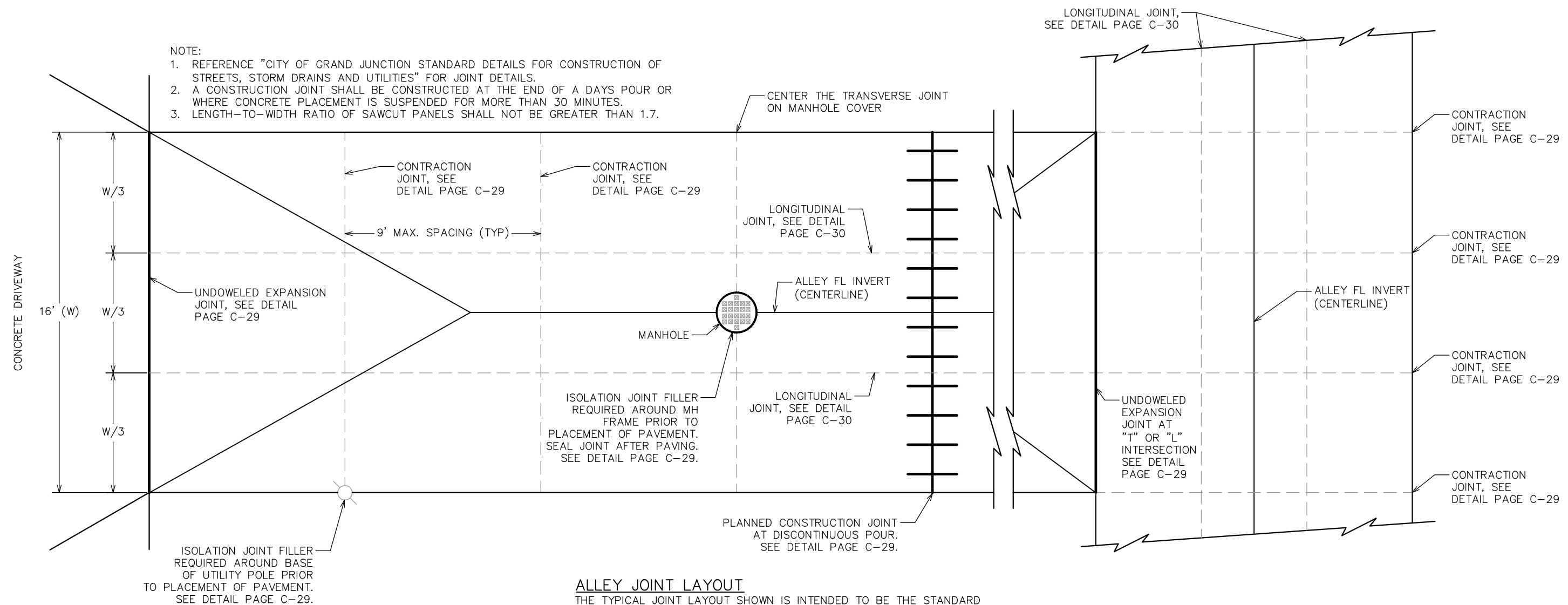


**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
SUMMARY OF APPROXIMATE QUANTITIES  
July 6, 2023

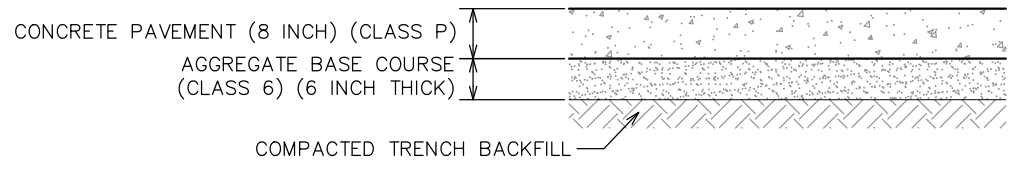
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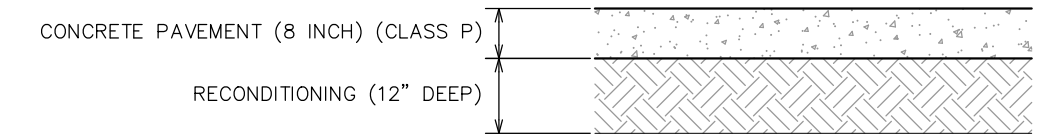


- NOTE:
1. REFERENCE "CITY OF GRAND JUNCTION STANDARD DETAILS FOR CONSTRUCTION OF STREETS, STORM DRAINS AND UTILITIES" FOR JOINT DETAILS.
  2. A CONSTRUCTION JOINT SHALL BE CONSTRUCTED AT THE END OF A DAYS POUR OR WHERE CONCRETE PLACEMENT IS SUSPENDED FOR MORE THAN 30 MINUTES.
  3. LENGTH-TO-WIDTH RATIO OF SAWCUT PANELS SHALL NOT BE GREATER THAN 1.7.

**ALLEY JOINT LAYOUT**  
 THE TYPICAL JOINT LAYOUT SHOWN IS INTENDED TO BE THE STANDARD FOR THE PROJECT. PROPOSED VARIATIONS FROM THE STANDARD (IF ANY) SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL JOINTS INCLUDED IN PAY ITEM 412 - CONCRETE PAVEMENT (8 INCH) (CLASS P). NOT TO SCALE



**HALE AVE (ON-STREET PARKING)  
 CONCRETE PAVEMENT SECTION**  
 (SEE IMPROVEMENT PLAN FOR EXTENTS OF CONCRETE PAVEMENT SECTION)  
 NOT TO SCALE



**ALLEY CONCRETE PAVING SECTION**  
 (SEE IMPROVEMENT PLAN FOR EXTENTS OF CONCRETE PAVEMENT SECTION)  
 NOT TO SCALE

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION A REV 1			WC	2023
REVISION A REV 2			WC	2023
REVISION A REV 3			WC	2023
REVISION A REV 4			WC	2023

NO SCALE

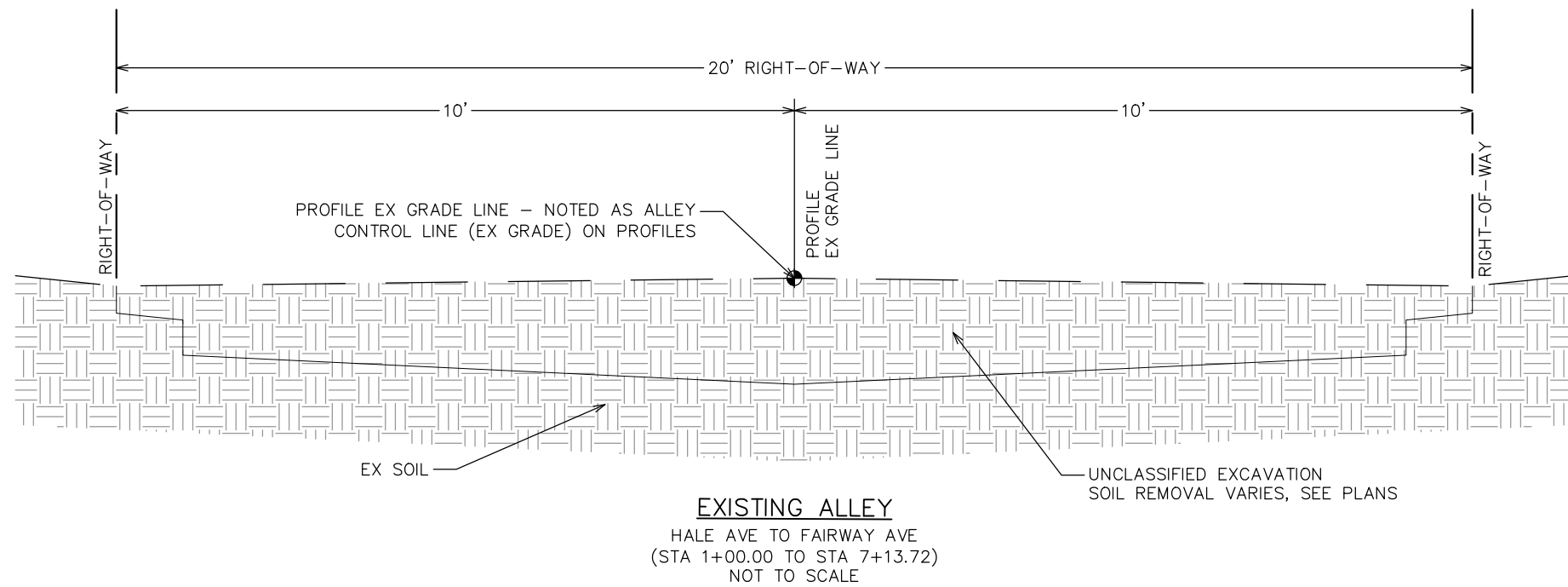


**PUBLIC WORKS  
 ENGINEERING DIVISION**  
 PROJECT NO. F000209

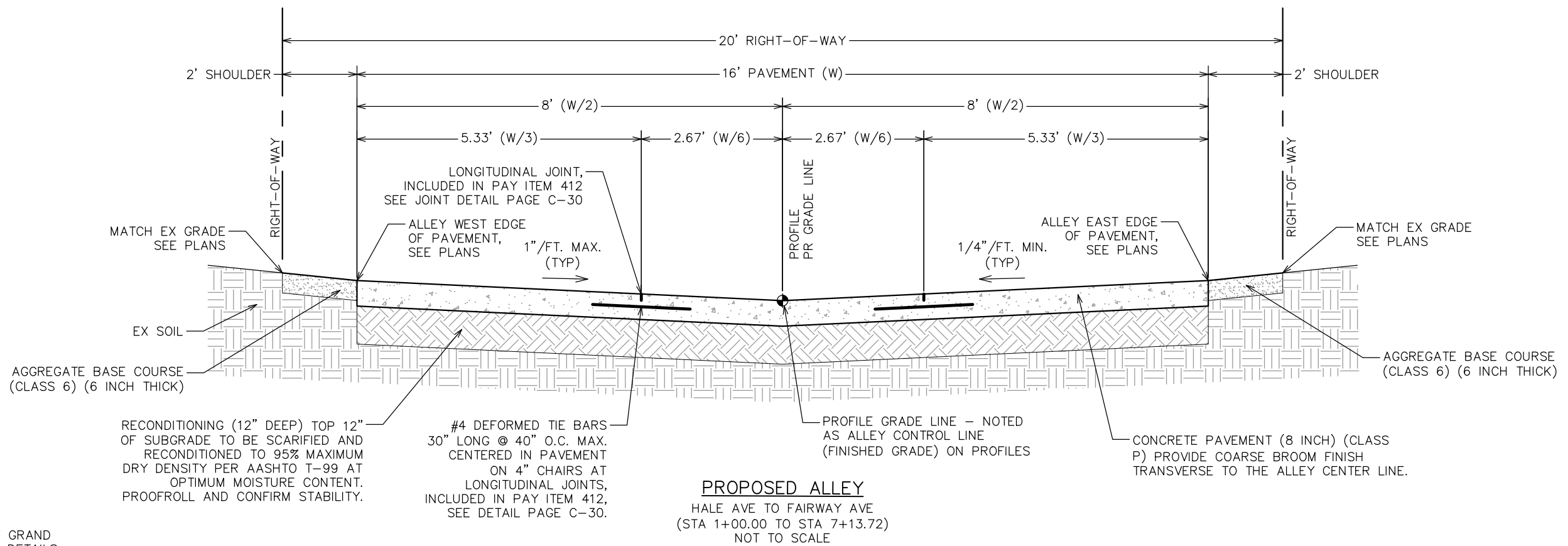
**ST-22 CRAWFORD-ROCKAWAY ALLEY  
 TYPICAL PAVEMENT DETAILS**  
 July 6, 2023



N:\ENGR\PROJ\F000209 (ALLEY IMPROVEMENT DISTRICTS)\ST-22 CRAWFORD-ROCKAWAY ALLEY\G0CAD\DESIGN\TYPICAL CROSS SECTION.DWG - PLOTTED 7/6/2023 11:06:39 AM



**EXISTING ALLEY**  
 HALE AVE TO FAIRWAY AVE  
 (STA 1+00.00 TO STA 7+13.72)  
 NOT TO SCALE



**PROPOSED ALLEY**  
 HALE AVE TO FAIRWAY AVE  
 (STA 1+00.00 TO STA 7+13.72)  
 NOT TO SCALE

REFERENCE "CITY OF GRAND JUNCTION STANDARD DETAILS FOR CONSTRUCTION OF STREETS, STORM DRAINS AND UTILITIES" FOR JOINT DETAILS.



Know what's below.  
 Call before you dig.

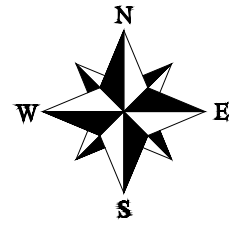
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REVISION A REV 2		--	WC	2023
REVISION A REV 3		--	WC	2023
REVISION A REV 4		--	WC	2023

NO SCALE



**PUBLIC WORKS ENGINEERING DIVISION**  
 PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
 TYPICAL CROSS SECTION  
 July 6, 2023



Station=8+00.00  
 Northing=34932.721  
 Easting=88454.214

FAIRWAY AVE

ROCKAWAY AVE

CRAWFORD AVE

CP-11  
 N 34783.324  
 E 88464.719  
 EL 4563.991

ALLEY

ALLEY CONTROL LINE  
 N00°18'48.48"E  
 800.00'

BOUNDARIES ARE SHOWN ON  
 PLANS FOR CONTEXT ONLY. THIS  
 IS NOT A BOUNDARY SURVEY.

HALE AVE

CP-10  
 N 34193.811  
 E 88448.771  
 EL 4559.838

Station=0+00.00  
 Northing=34132.733  
 Easting=88449.838



Know what's below.  
 Call before you dig.

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION $\Delta$ REV 1		--	WC	2023	
REVISION $\Delta$ REV 2		--	WC	2023	
REVISION $\Delta$ REV 3		--	WC	2023	
REVISION $\Delta$ REV 4		--	WC	2023	



PUBLIC WORKS  
 ENGINEERING DIVISION  
 PROJECT NO. F000209

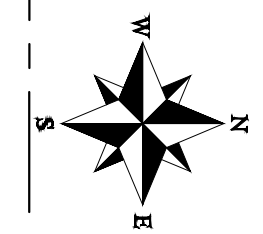
ST-22 CRAWFORD-ROCKAWAY ALLEY  
 PROJECT CONTROL MAP  
 July 6, 2023

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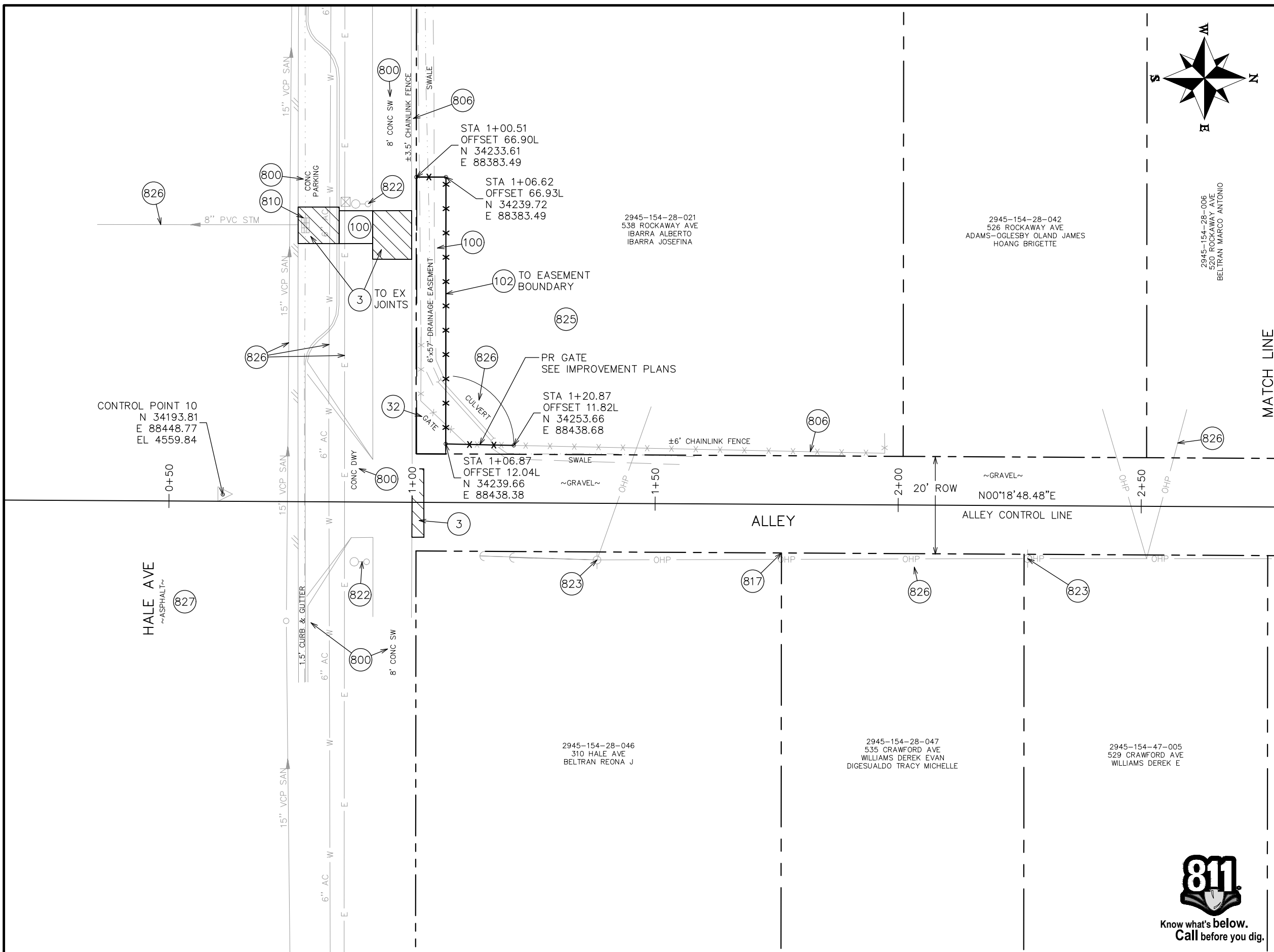


**DRAWING NOTES**

- 3 REMOVAL OF CONCRETE. SAW CUT AND REMOVE CONCRETE AS SHOWN. (INDICATED BY CROSS HATCH PATTERN) INCLUDES BUT NOT LIMITED TO CURB, GUTTER, SIDEWALK, DRIVEWAY, SLABS, V-PAN, CURB RAMPS, INTERSECTION CORNERS, APRONS, AND LANDSCAPE BORDERS. INCIDENTAL TO COST OF CONSTRUCTION PER SECTION 108.13.
- 32 REMOVE EXISTING GATE AND RETURN TO PROPERTY OWNER. INCIDENTAL TO COST OF CONSTRUCTION PER SECTION 108.13.
- 100 RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 102 RESET FENCE (HEIGHT AND MATERIAL AS SHOW ON PLAN).
- 800 PROTECT CONCRETE FEATURE IN PLACE AS SHOWN UNLESS NOTED (TYP).
- 806 PROTECT FENCE UNLESS NOTED (TYP).
- 810 PROTECT STORM DRAIN INLET (TYP).
- 817 PROTECT OR REFERENCE AND RESET PROPERTY PIN/MONUMENT. COST IS INCIDENTAL TO COST OF CONSTRUCTION (TYP).
- 822 PROTECT LIGHT POLE (TYP).
- 823 PROTECT UTILITY POLE (TYP).
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ALL DAMAGE TO PRIVATE PROPERTY BEYOND RIGHT-OF-WAY BOUNDARY OR EASEMENT LIMITS (TYP).
- 826 PROTECT EXISTING UTILITY LINE IN PLACE (TYP).
- 827 PROTECT EXISTING STREET (TYP).



Know what's below.  
Call before you dig.



REVISION	DESCRIPTION	DATE
REVISION REV 1		
REVISION REV 2		
REVISION REV 3		
REVISION REV 4		

DRAWN BY	WC	DATE	2023
DESIGNED BY	WC	DATE	2023
CHECKED BY	WC	DATE	2023
APPROVED BY	WC	DATE	2023



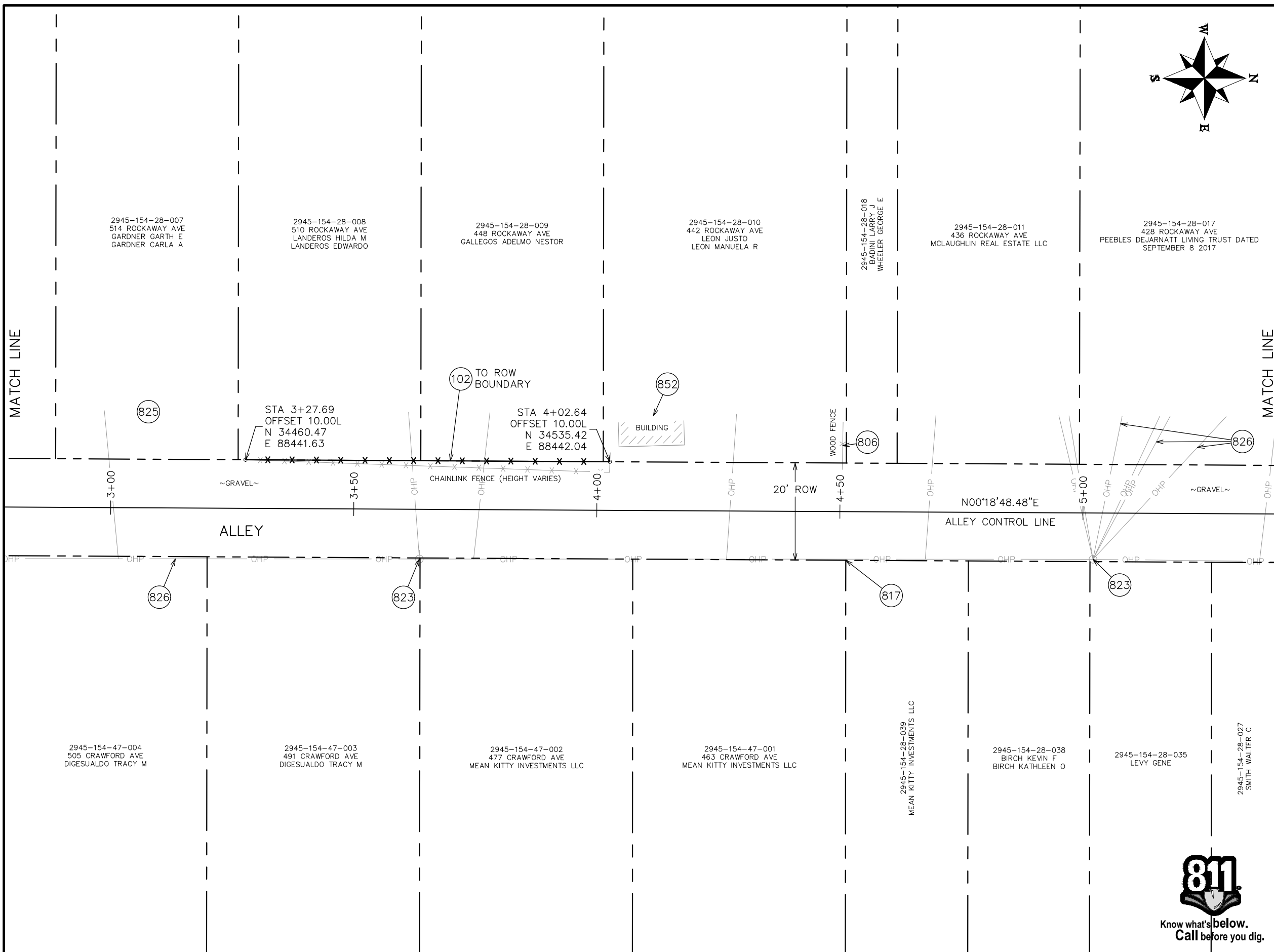
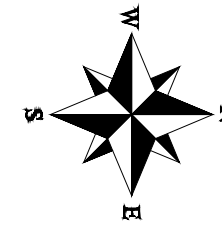
**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY  
REMOVAL PLAN - 1 OF 3**  
July 6, 2023

N:\ENGR\PROJ\F000209 (ALLEY IMPROVEMENT DISTRICTS)\ST-22 CRAWFORD ROCKAWAY ALLEY\GOCAD\DESIGN\REMOVAL PLAN.DWG - PLOTTED 7/6/2023 11:06:51 AM

**DRAWING NOTES**

- (102) RESET FENCE (HEIGHT AND MATERIAL AS SHOW ON PLAN).
- (806) PROTECT FENCE UNLESS NOTED (TYP).
- (817) PROTECT OR REFERENCE AND RESET PROPERTY PIN/MONUMENT. COST IS INCIDENTAL TO COST OF CONSTRUCTION (TYP).
- (823) PROTECT UTILITY POLE (TYP).
- (825) CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ALL DAMAGE TO PRIVATE PROPERTY BEYOND RIGHT-OF-WAY BOUNDARY OR EASEMENT LIMITS (TYP).
- (826) PROTECT EXISTING UTILITY LINE IN PLACE (TYP).
- (852) PROTECT EXISTING BUILDING (TYP).



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION $\Delta$ REV 1		--	WC	2023	
REVISION $\Delta$ REV 2		--	WC	2023	
REVISION $\Delta$ REV 3		--	WC	2023	
REVISION $\Delta$ REV 4		--	WC	2023	

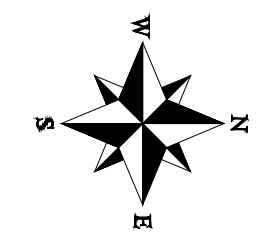


**PUBLIC WORKS ENGINEERING DIVISION**  
PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
REMOVAL PLAN - 2 OF 3  
July 6, 2023

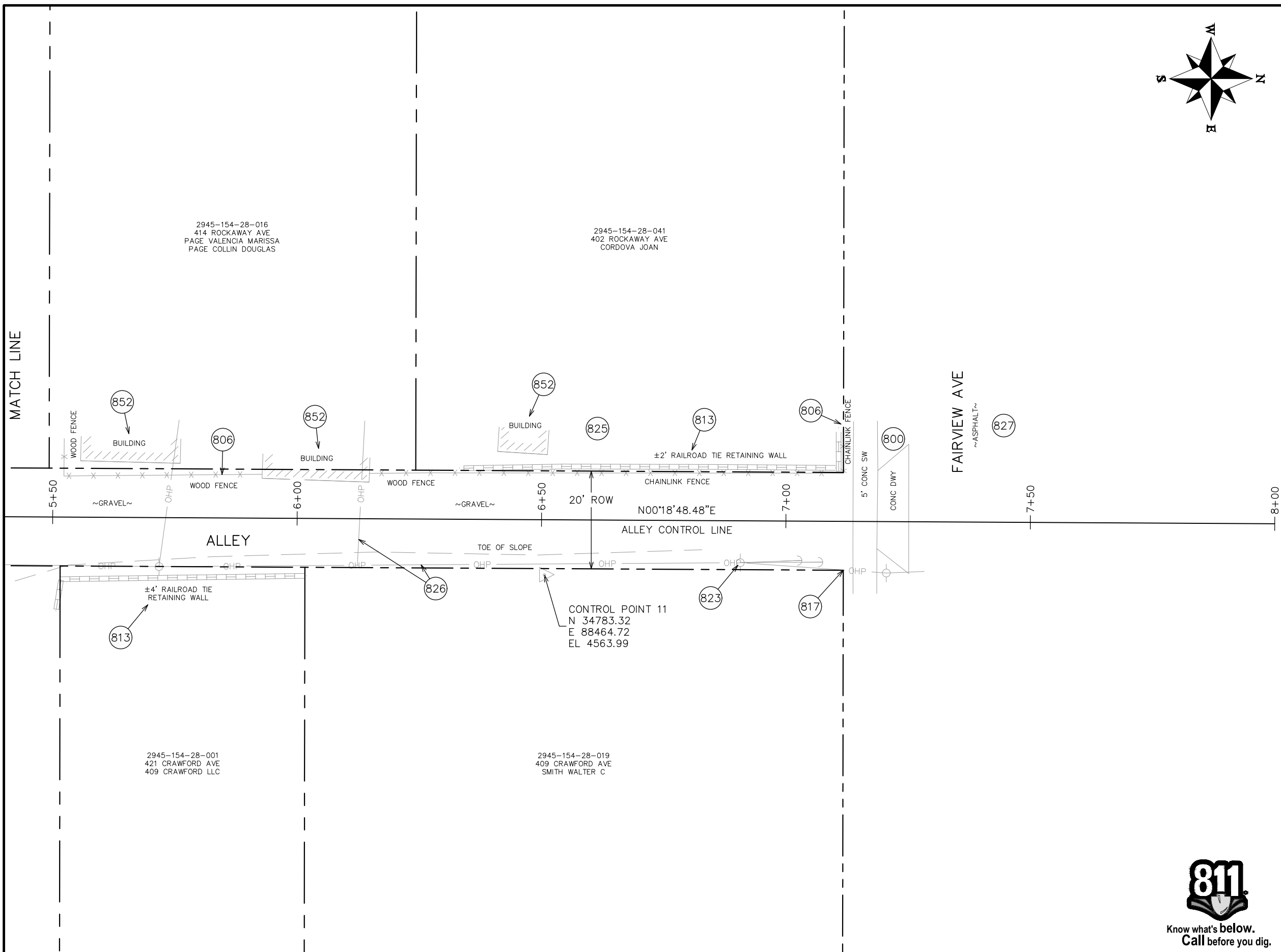


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**DRAWING NOTES**

- 800 PROTECT CONCRETE FEATURE IN PLACE AS SHOWN UNLESS NOTED (TYP).
- 806 PROTECT FENCE UNLESS NOTED (TYP).
- 813 PROTECT LANDSCAPE APPURTENANCE (TYPE AS SHOWN ON PLAN).
- 817 PROTECT OR REFERENCE AND RESET PROPERTY PIN/MONUMENT. COST IS INCIDENTAL TO COST OF CONSTRUCTION (TYP).
- 823 PROTECT UTILITY POLE (TYP).
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ALL DAMAGE TO PRIVATE PROPERTY BEYOND RIGHT-OF-WAY BOUNDARY OR EASEMENT LIMITS (TYP).
- 826 PROTECT EXISTING UTILITY LINE IN PLACE (TYP).
- 827 PROTECT EXISTING STREET (TYP).
- 852 PROTECT EXISTING BUILDING (TYP).



2945-154-28-016  
414 ROCKAWAY AVE  
PAGE VALENCIA MARISSA  
PAGE COLLIN DOUGLAS

2945-154-28-041  
402 ROCKAWAY AVE  
CORDOVA JOAN

2945-154-28-001  
421 CRAWFORD AVE  
409 CRAWFORD LLC

2945-154-28-019  
409 CRAWFORD AVE  
SMITH WALTER C

CONTROL POINT 11  
N 34783.32  
E 88464.72  
EL 4563.99



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REV 1			WC	2023	0 5 10 20
REV 2			WC	2023	
REV 3			WC	2023	
REV 4			WC	2023	



**PUBLIC WORKS  
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**ST-22 CRAWFORD-ROCKAWAY ALLEY  
REMOVAL PLAN - 3 OF 3**  
July 6, 2023

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**UTILITY PLAN GENERAL NOTES**

1. THE PURPOSE OF THE UTILITY PLANS IS TO AID IN THE IDENTIFICATION AND RESOLUTION OF UTILITY CONFLICTS. UTILITY PLANS ARE NOT INTENDED TO CONVEY ALL OF THE INFORMATION REQUIRED TO CONSTRUCT PROPOSED UTILITIES. THE CONTRACTOR SHALL REFER TO THE RELEVANT CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR UTILITY CONSTRUCTION.
2. THE UTILITY PLANS ARE ITERATIVE DOCUMENTS, CHANGING OVER TIME AS NEW DATA IS COLLECTED AND PROJECT DELIVERY PROGRESSES. RISK-BASED UTILITY QUALITY LEVELS MAY BE DEVELOPED AND DELIVERED IN ANY ORDER, OR CONTEMPORANEOUSLY, AS THE PROJECT PROGRESSES THROUGH PROJECT DELIVERY.
3. RISK-BASED QUALITY LEVEL DEFINITIONS FOR DEPICTED EXISTING UTILITIES ARE AS DEFINED BY ASCE 38-22:
  - 3.1. QUALITY LEVEL D (QL-D): A VALUE ASSIGNED TO A UTILITY SEGMENT OR UTILITY FEATURE NOT VISIBLE AT THE GROUND SURFACE WHOSE ESTIMATED POSITION IS JUDGED THROUGH UTILITY RECORDS, INFORMATION FROM OTHERS, OR FROM VISUAL CLUES SUCH AS PAVEMENT CUTS, OBVIOUS TRENCHES, OR EXISTENCE OF SERVICE. QL-D UTILITIES ARE NOT REFERENCED TO THE PROJECT SURVEY DATUM.
  - 3.2. QUALITY LEVEL C (QL-C): A VALUE ASSIGNED TO A UTILITY SEGMENT NOT VISIBLE AT THE GROUND SURFACE WHOSE ESTIMATED POSITION IS JUDGED THROUGH CORRELATING UTILITY RECORDS OR SIMILAR EVIDENCE TO UTILITY FEATURES, VISIBLE ABOVEGROUND AND/OR UNDERGROUND. QL-C UTILITIES ARE NOT REFERENCED TO THE SURVEY PROJECT DATUM.
  - 3.3. QUALITY LEVEL B (QL-B): A VALUE ASSIGNED TO UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE WHOSE EXISTENCE AND HORIZONTAL POSITION IS BASED ON GEOPHYSICAL METHODS COMBINED WITH PROFESSIONAL JUDGEMENT AND WHOSE LOCATION IS TIED TO THE PROJECT SURVEY DATUM.
  - 3.4. QUALITY LEVEL A (QL-A): A VALUE ASSIGNED TO THAT PORTION (X-, Y-, AND Z-GEOMETRY) OF A UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE THAT IS DIRECTLY EXPOSED AND MEASURED AND WHOSE LOCATION AND DIMENSIONS ARE TIED TO THE PROJECT SURVEY DATUM.
4. ALL DEPICTED UTILITIES ARE QL-D UNLESS NOTED.
5. LIMITS OF SUBSURFACE UTILITY INVESTIGATION: THE LOCATION OF THE PROPOSED STORM DRAIN PIPES. THE ALLEY PAVING AREA WAS NOT INVESTIGATED.
6. UTILITY FACILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. UTILITY FACILITIES MAY EXIST THAT ARE NOT SHOWN ON THIS PLAN. UTILITY LOCATION AND NOTIFICATION OF UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) MEMBER UTILITIES AND NON-MEMBER UTILITIES PRIOR TO CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY.
7. MORE THAN ONE OF THE SAME TYPE OF UTILITY MAY BE PRESENT AT LOCATIONS INDICATED.
8. RELIANCE UPON UTILITY PLANS DURING BIDDING DOES NOT RELIEVE THE CONTRACTOR FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND PROCEDURES DURING EXCAVATION.
9. FIELD SURVEY PERFORMED BY THE CITY OF GRAND JUNCTION WAS COMPLETED ON 09/07/2022 AND 02/08/2023. UTILITIES MAY HAVE BEEN CHANGED OR ADDED AFTER THIS DATE.
10. GEOPHYSICAL QUALITIES OF SITE: THE SITE'S CLAY SOILS ARE UNSUITED FOR GROUND PENETRATING RADAR. SIGNAL ATTENUATION DUE TO HIGH LEVELS OF SALTS, SULFATES, AND CARBONATES WILL BE SEVERE. SIGNAL ATTENUATION DUE TO WATER AND EXCHANGEABLE IONS WILL BE MODERATE.
11. AREAS UNABLE TO BE INVESTIGATED: N/A
12. METHODS USED TO COLLECT AND DEPICT SUBSURFACE UTILITY INFORMATION: TOTAL STATION, AUTODESK CIVIL 3D 2022.
13. SEE THE STANDARD ABBREVIATIONS, LEGEND, AND SYMBOLS FOR UTILITY LINE LINE TYPE DEPICTIONS, UTILITY APPURTENANCES SYMBOLS, AND ABBREVIATIONS USED FOR THE UTILITY PLAN.



Know what's below.  
Call before you dig.

REVISION	DESCRIPTION	DATE	DRAWN BY	WC	DATE	2023
REVISION $\Delta$ REV 1			DESIGNED BY	WC	DATE	2023
REVISION $\Delta$ REV 2			CHECKED BY	WC	DATE	2023
REVISION $\Delta$ REV 3			APPROVED BY	WC	DATE	2023
REVISION $\Delta$ REV 4						

NO SCALE



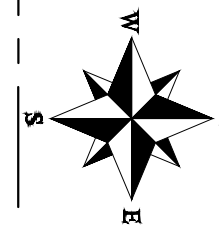
**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**UTILITY PLAN - 1 OF 4**  
**July 6, 2023**

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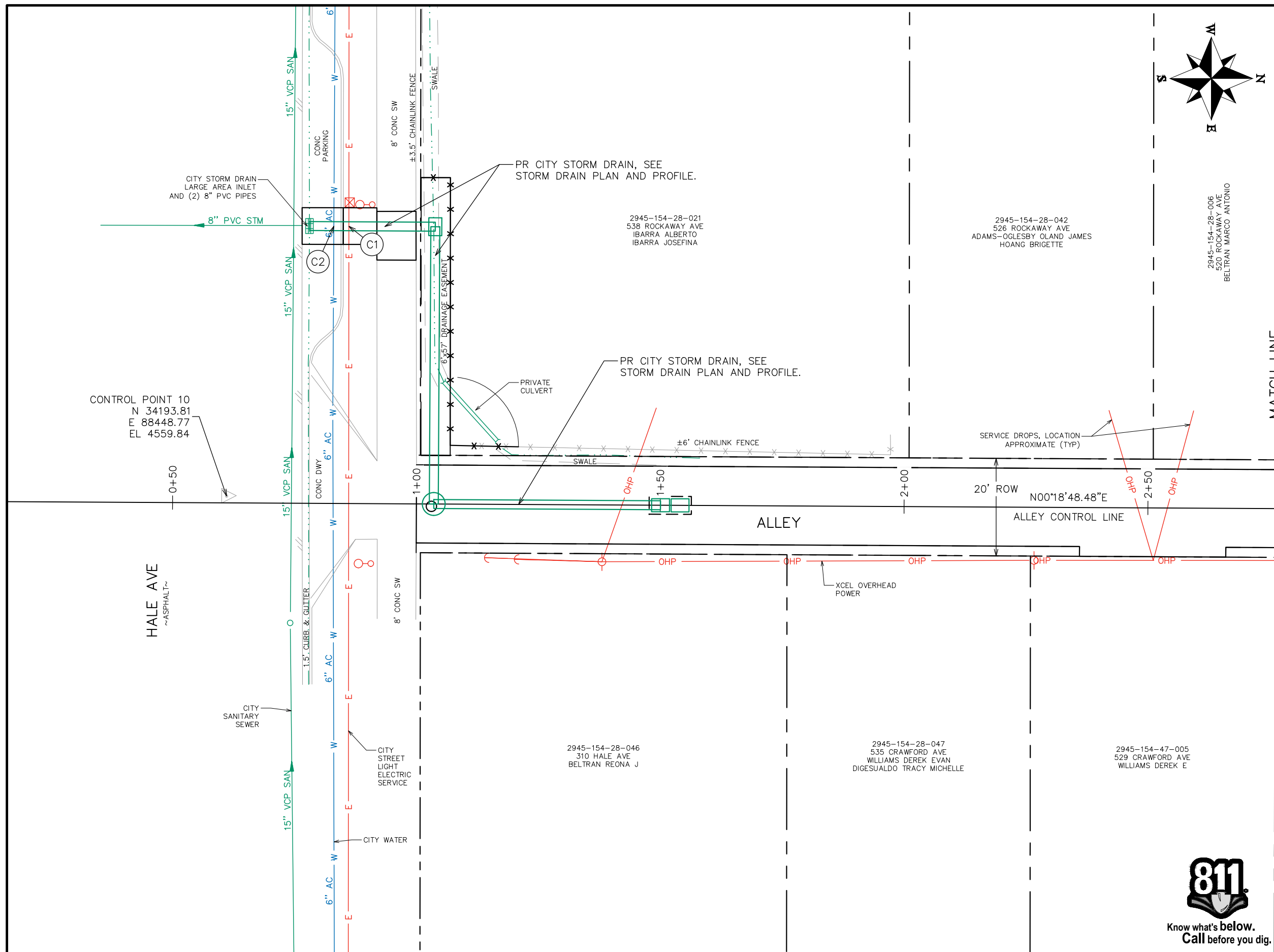
**DRAWING NOTES**

- (C1) PROPOSED STORM DRAIN CROSSES EXISTING JOINT UTILITY TRENCH. ELECTRIC SERVICE FOR STREET LIGHTS IS BELIEVED TO CONFLICT WITH PROPOSED STORM DRAIN, SEE PROPOSED STORM DRAIN PLAN AND PROFILE FOR CONFLICT RESOLUTION. OTHER UNKNOWN UTILITIES MAY EXIST IN THIS LOCATION, PROTECT IN PLACE.
- (C2) PROPOSED STORM DRAIN CROSSES EXISTING WATER LINE. UTILITY RECORDS INDICATE THAT THE EXISTING WATER LINE IS BELOW THE PROPOSED STORM DRAIN. PROTECT EXISTING WATER LINE IN PLACE.



2945-154-28-006  
520 ROCKAWAY AVE  
BELTRAN MARCO ANTONIO

MATCH LINE



CONTROL POINT 10  
N 34193.81  
E 88448.77  
EL 4559.84

HALE AVE  
~ ASPHALT ~

ALLEY



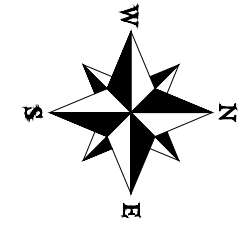
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REVISION REV 4			WC	2023	



**PUBLIC WORKS  
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**ST-22 CRAWFORD-ROCKAWAY ALLEY  
UTILITY PLAN - 2 OF 4**  
July 6, 2023

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MATCH LINE

MATCH LINE

2945-154-28-007  
514 ROCKAWAY AVE  
GARDNER GARTH E  
GARDNER CARLA A

2945-154-28-008  
510 ROCKAWAY AVE  
LANDEROS HILDA M  
LANDEROS EDUARDO

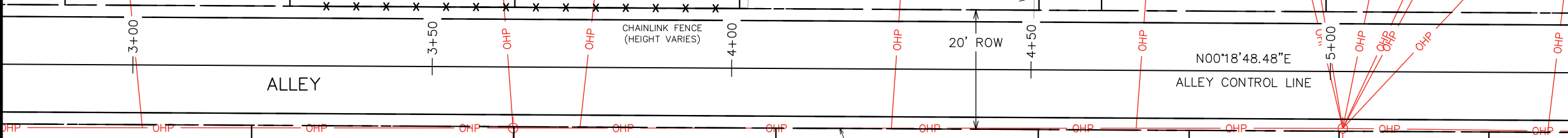
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448 ROCKAWAY AVE  
GALLEGOS ADELMO NESTOR

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442 ROCKAWAY AVE  
LEON JUSTO  
LEON MANUELA R

2945-154-28-018  
BADINI LARRY J  
WHEELER GEORGE E

2945-154-28-011  
436 ROCKAWAY AVE  
MCLAUGHLIN REAL ESTATE LLC

2945-154-28-017  
428 ROCKAWAY AVE  
PEEBLES DEJARNATT LIVING TRUST DATED  
SEPTEMBER 8 2017



2945-154-47-004  
505 CRAWFORD AVE  
DIGESUALDO TRACY M

2945-154-47-003  
491 CRAWFORD AVE  
DIGESUALDO TRACY M

2945-154-47-002  
477 CRAWFORD AVE  
MEAN KITTY INVESTMENTS LLC

2945-154-47-001  
463 CRAWFORD AVE  
MEAN KITTY INVESTMENTS LLC

2945-154-28-039  
MEAN KITTY INVESTMENTS LLC

2945-154-28-038  
BIRCH KEVIN F  
BIRCH KATHLEEN O

2945-154-28-035  
LEVY GENE

2945-154-28-027  
SMITH WALTER C

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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REVISION $\Delta$ REV 3		--	WC	2023	
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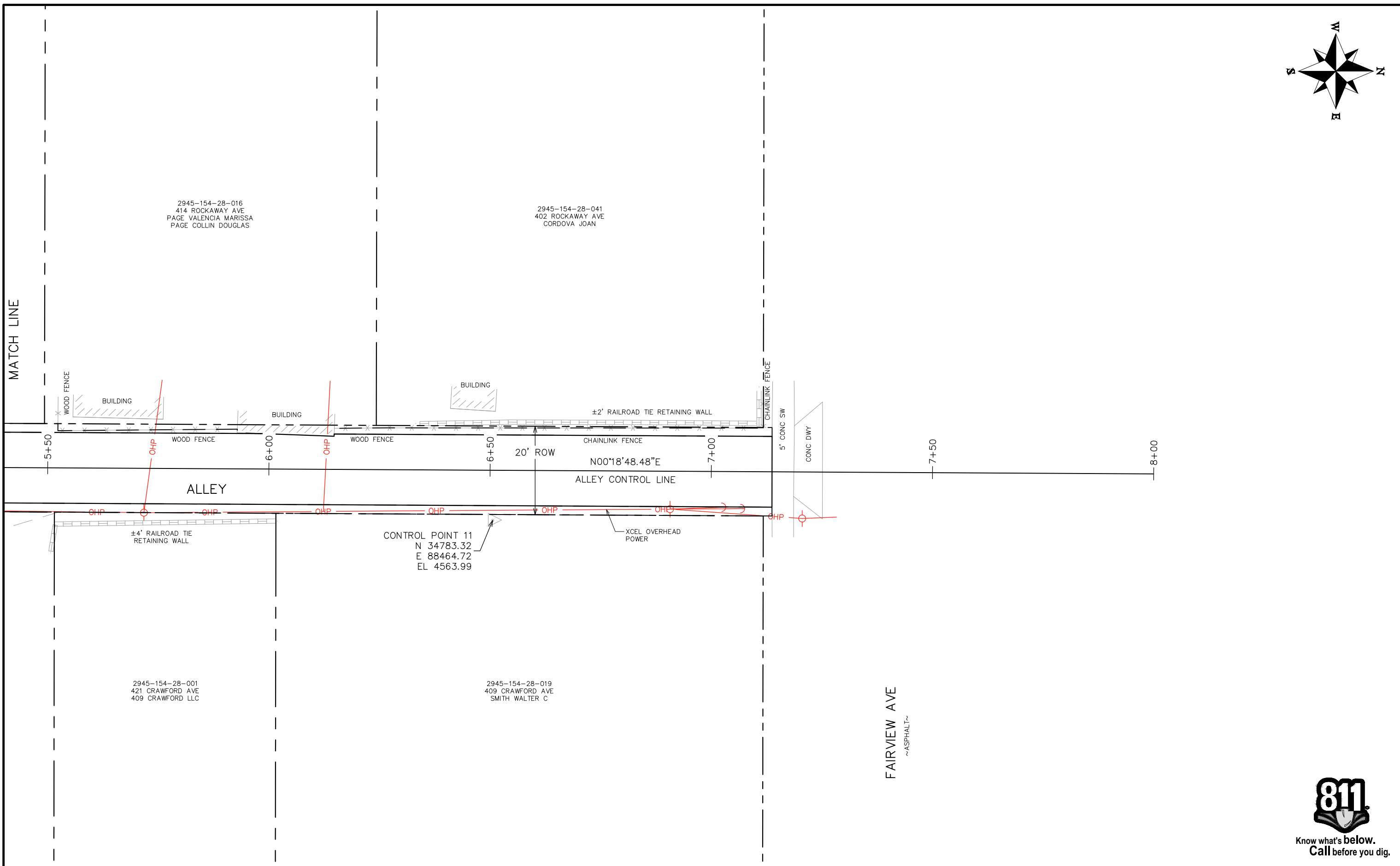
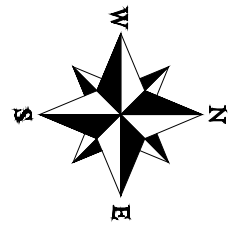


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ENGINEERING DIVISION**  
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**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**UTILITY PLAN - 3 OF 4**  
July 6, 2023







2945-154-28-016  
414 ROCKAWAY AVE  
PAGE VALENCIA MARISSA  
PAGE COLLIN DOUGLAS

2945-154-28-041  
402 ROCKAWAY AVE  
CORDOVA JOAN

2945-154-28-001  
421 CRAWFORD AVE  
409 CRAWFORD LLC

2945-154-28-019  
409 CRAWFORD AVE  
SMITH WALTER C

CONTROL POINT 11  
N 34783.32  
E 88464.72  
EL 4563.99

REVISION	DESCRIPTION	DATE
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REVISION $\Delta$ REV 2		
REVISION $\Delta$ REV 3		
REVISION $\Delta$ REV 4		

DRAWN BY	WC	DATE	2023
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PROJECT NO. F000209

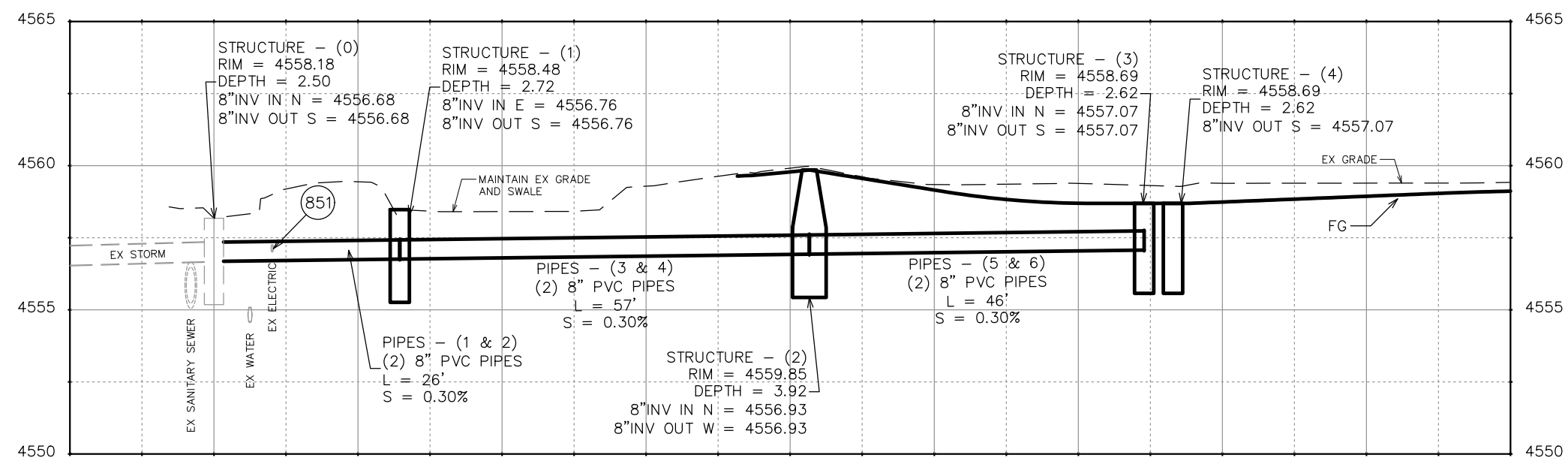
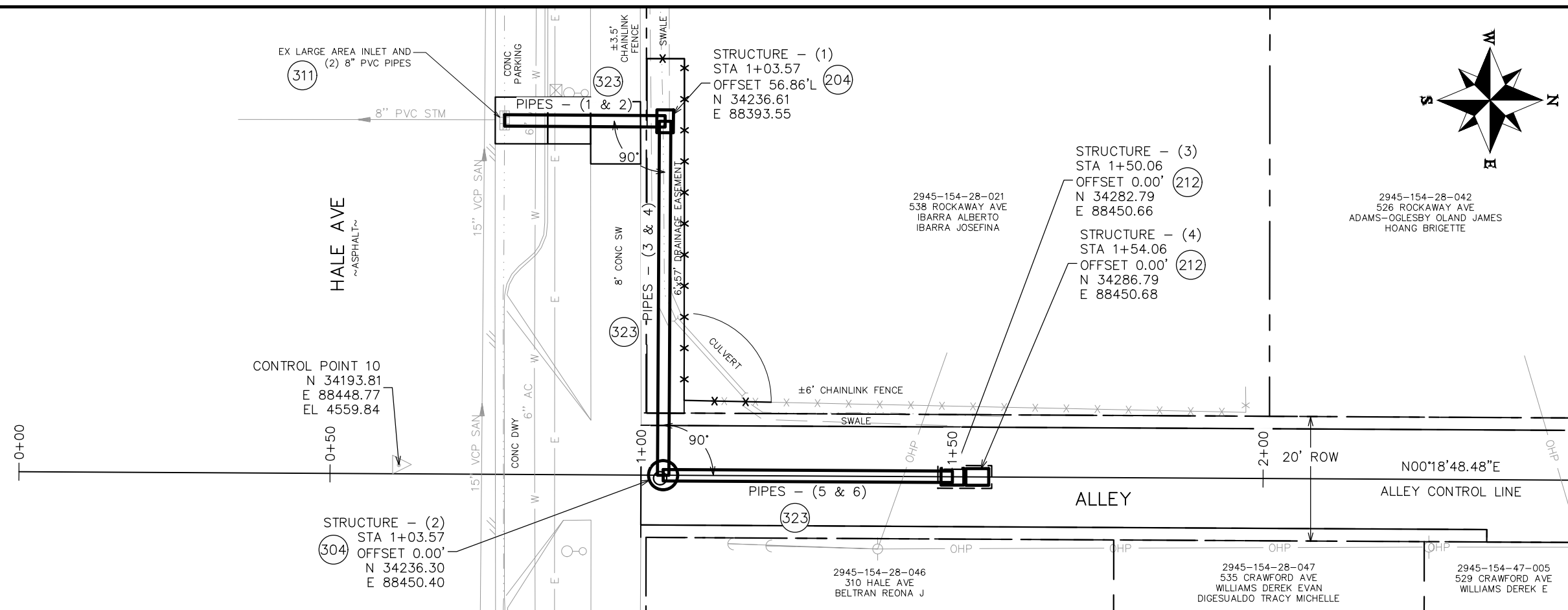
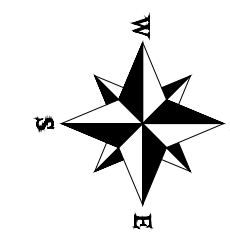
ST-22 CRAWFORD-ROCKAWAY ALLEY  
UTILITY PLAN - 4 OF 4  
July 6, 2023



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**DRAWING NOTES**

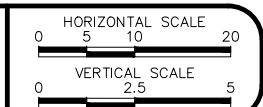
- (204) SINGLE STORM DRAIN INLET (VERTICAL CURB) (SEE CITY OF GRAND JUNCTION STANDARD DETAIL PAGE D-07). INCLUDES 6" WIDE CURB (SEE CITY OF GRAND JUNCTION STANDARD DETAIL PAGE D-02).
- (212) LARGE AREA INLET (SEE CITY OF GRAND JUNCTION STANDARD DETAIL PAGE D-10).
- (304) STORM SEWER SHALLOW MANHOLE (48" I.D.). INCLUDES CONNECTION OF ADJACENT SEWER LINE, FORMING INVERTS, AND ADJUSTING TO FINAL GRADE. (SEE STD. DETAIL PAGE SS-03).
- (311) CONNECT TO EXISTING LARGE AREA INLET. (SEE CITY OF GRAND JUNCTION STANDARD DETAIL PAGE D-12). INCIDENTAL TO COST OF CONSTRUCTION PER SECTION 108.13.
- (323) 8" STORM DRAIN PIPE (SDR 35 PVC). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL. INCLUDES BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL. SEE PAGE GU-03.
- (851) ADJUST EXISTING ELECTRIC SERVICE ABOVE PROPOSED STORM DRAIN.



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REVISION	DESCRIPTION	DATE
REVISION A REV 1		
REVISION B REV 2		
REVISION C REV 3		
REVISION D REV 4		

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WC	2023
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WC	2023
APPROVED BY	DATE
WC	2023



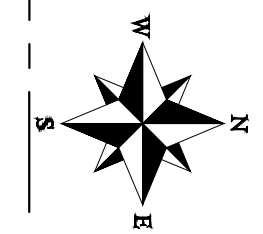
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PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY  
STORM DRAIN PLAN AND PROFILE**  
July 6, 2023

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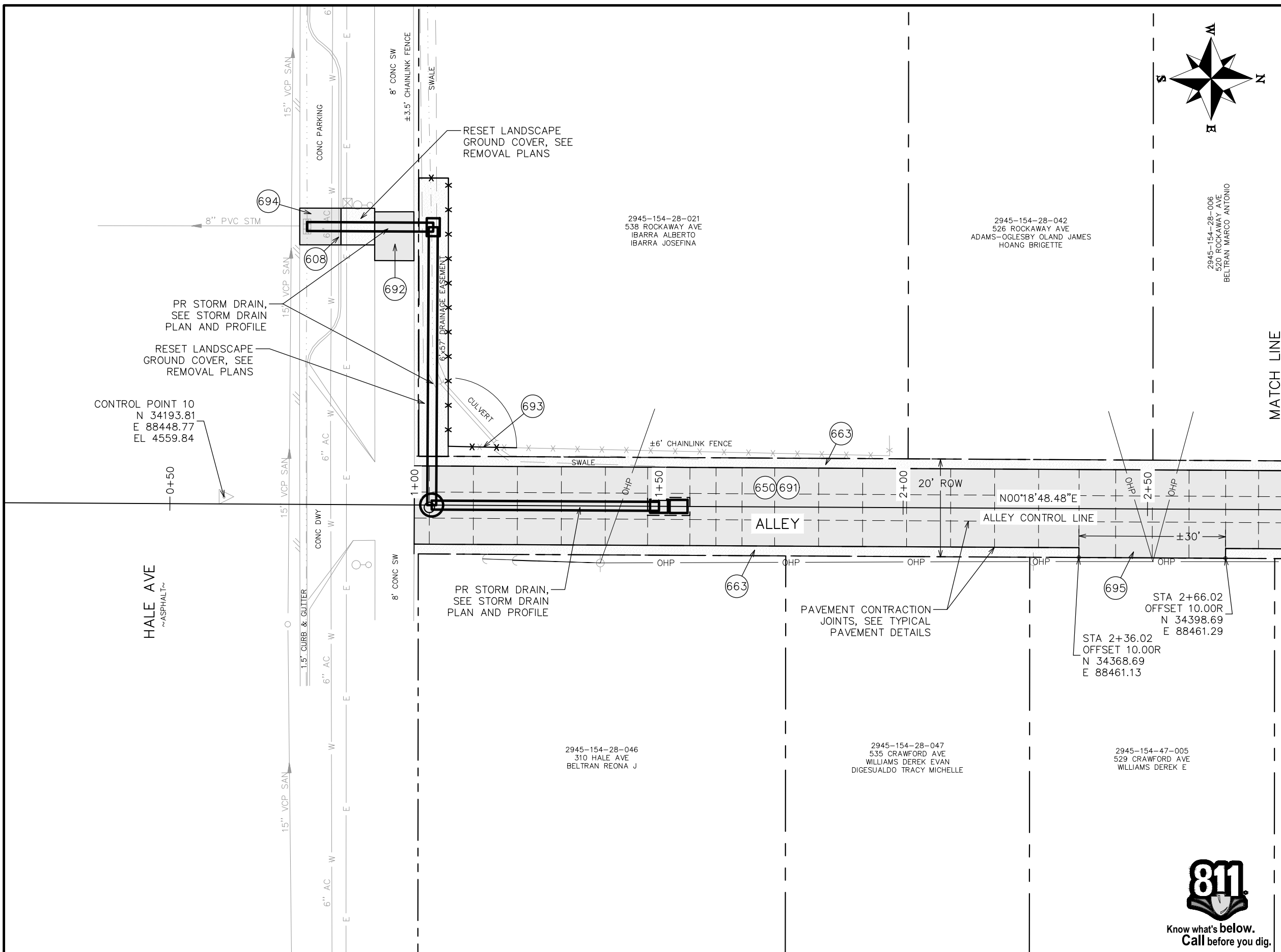
**DRAWING NOTES**

- 608 CONCRETE CURB WITH SPILL GUTTER (1'-6" WIDE).
- 650 GRADE ALLEY AS SHOWN ON PROFILES, SECTIONS, AND STAKING PLANS.
- 663 2' WIDE SHOULDER EACH SIDE WITH AGGREGATE BASE COURSE (CLASS 6) (6" THICK). SEE TYPICAL PAVEMENT DETAILS AND PAVEMENT SECTION.
- 691 8" THICK CONCRETE PAVEMENT (CLASS P) -OVER- 12" OF SUBBASE RECONDITIONING. SEE TYPICAL PAVEMENT DETAILS AND PAVEMENT SECTION.
- 692 CONCRETE SIDEWALK (6" THICK) -OVER- 6" AGGREGATE BASE COURSE (CLASS 6).
- 693 GATE (14' WIDE) (CHAINLINK). PROVIDE 6' TALL, LEFT-HAND "SINGLE GATE" PER CDOT STANDARD PLAN M-607-2.
- 694 8" THICK CONCRETE PAVEMENT (CLASS P) -OVER- 6" AGGREGATE BASE COURSE (CLASS 6). SEE TYPICAL PAVEMENT DETAILS AND PAVEMENT SECTION.
- 695 PAVE 2' SHOULDER TO ROW BOUNDARY, EXTENTS TO MATCH EXISTING DRIVEWAY AT 529 CRAWFORD AVE.



2945-154-28-006  
520 ROCKAWAY AVE  
BELTRAN MARCO ANTONIO

MATCH LINE



REVISION	DESCRIPTION	DATE
REVISION $\Delta$ REV 1		
REVISION $\Delta$ REV 2		
REVISION $\Delta$ REV 3		
REVISION $\Delta$ REV 4		

DRAWN BY	WC	DATE	2023
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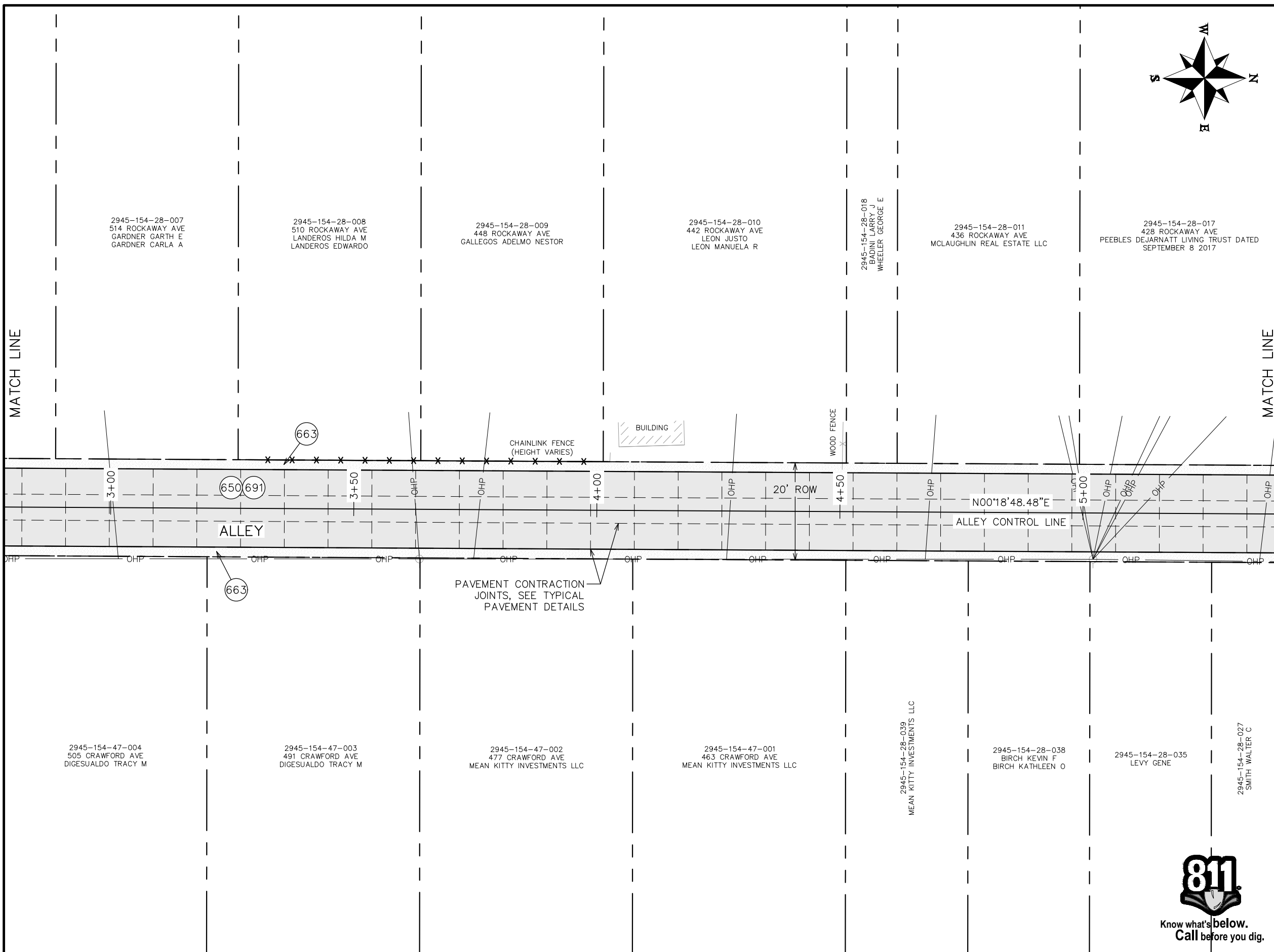
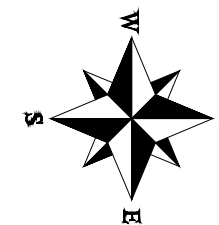
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**ST-22 CRAWFORD-ROCKAWAY ALLEY  
IMPROVEMENT PLAN - 1 OF 3**  
July 6, 2023

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**DRAWING NOTES**

- 650 GRADE ALLEY AS SHOWN ON PROFILES, SECTIONS, AND STAKING PLANS.
- 663 2' WIDE SHOULDER EACH SIDE WITH AGGREGATE BASE COURSE (CLASS 6) (6" THICK). SEE TYPICAL PAVEMENT DETAILS AND PAVEMENT SECTION.
- 691 8" THICK CONCRETE PAVEMENT (CLASS P) -OVER- 12" OF SUBBASE RECONDITIONING. SEE TYPICAL PAVEMENT DETAILS AND PAVEMENT SECTION.



2945-154-28-007  
514 ROCKAWAY AVE  
GARDNER GARTH E  
GARDNER CARLA A

2945-154-28-008  
510 ROCKAWAY AVE  
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LANDEROS EDUARDO

2945-154-28-009  
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442 ROCKAWAY AVE  
LEON JUSTO  
LEON MANUELA R

2945-154-28-018  
BADDIN LARRY J  
WHEELER GEORGE E

2945-154-28-011  
436 ROCKAWAY AVE  
MCLAUGHLIN REAL ESTATE LLC

2945-154-28-017  
428 ROCKAWAY AVE  
DEJARNATT LIVING TRUST DATED  
SEPTEMBER 8 2017

2945-154-47-004  
505 CRAWFORD AVE  
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MEAN KITTY INVESTMENTS LLC

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463 CRAWFORD AVE  
MEAN KITTY INVESTMENTS LLC

2945-154-28-039  
MEAN KITTY INVESTMENTS LLC

2945-154-28-038  
BIRCH KEVIN F  
BIRCH KATHLEEN O

2945-154-28-035  
LEVY GENE

2945-154-28-027  
SMITH WALTER C



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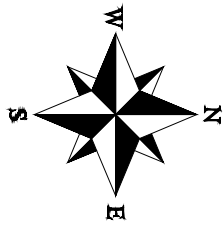
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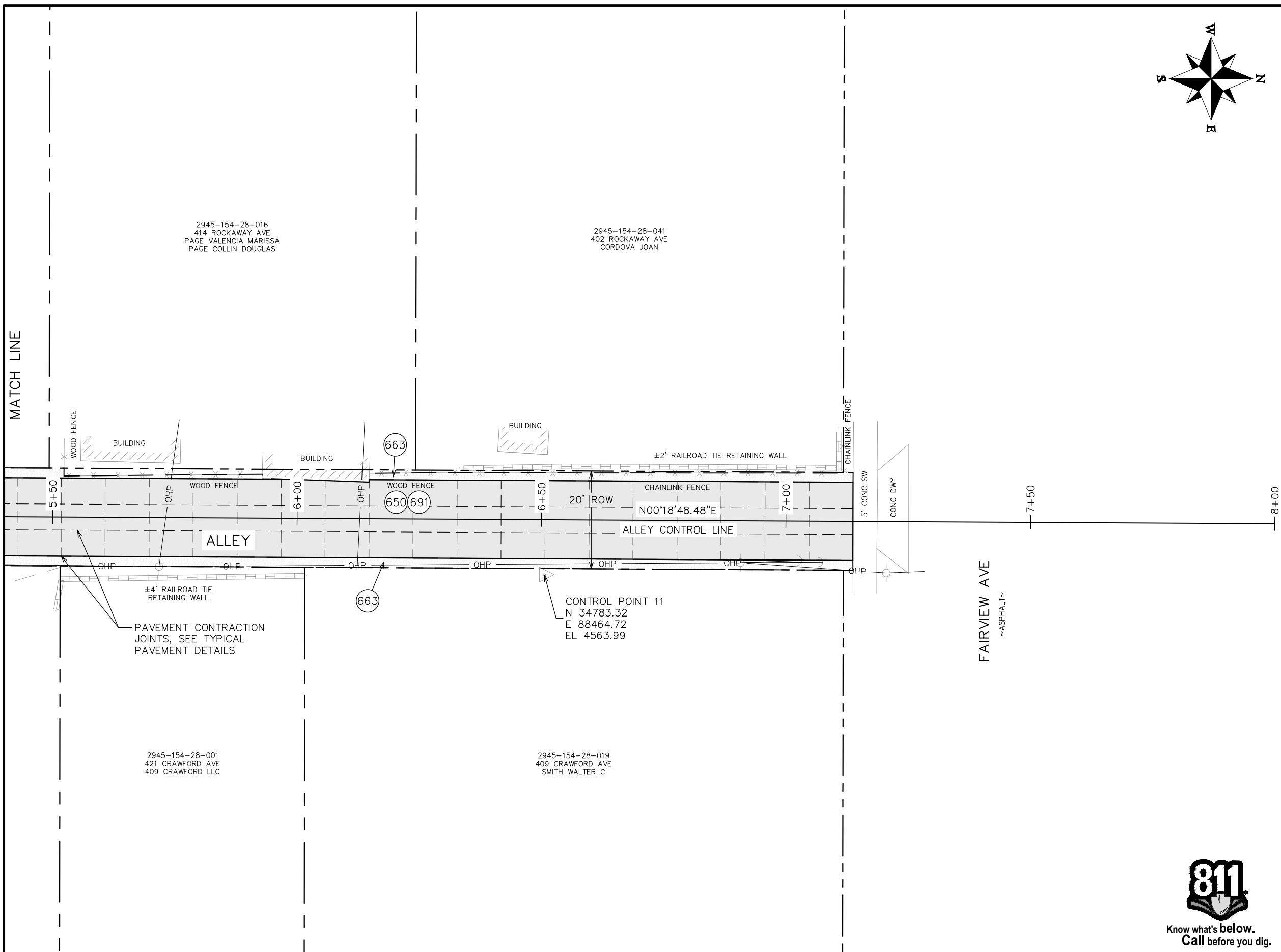
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PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY  
IMPROVEMENT PLAN - 2 OF 3**  
July 6, 2023



**DRAWING NOTES**

- 650 GRADE ALLEY AS SHOWN ON PROFILES, SECTIONS, AND STAKING PLANS.
- 663 2' WIDE SHOULDER EACH SIDE WITH AGGREGATE BASE COURSE (CLASS 6) (6" THICK). SEE TYPICAL PAVEMENT DETAILS AND PAVEMENT SECTION.
- 691 8" THICK CONCRETE PAVEMENT (CLASS P) -OVER- 12" OF SUBBASE RECONDITIONING. SEE TYPICAL PAVEMENT DETAILS AND PAVEMENT SECTION.



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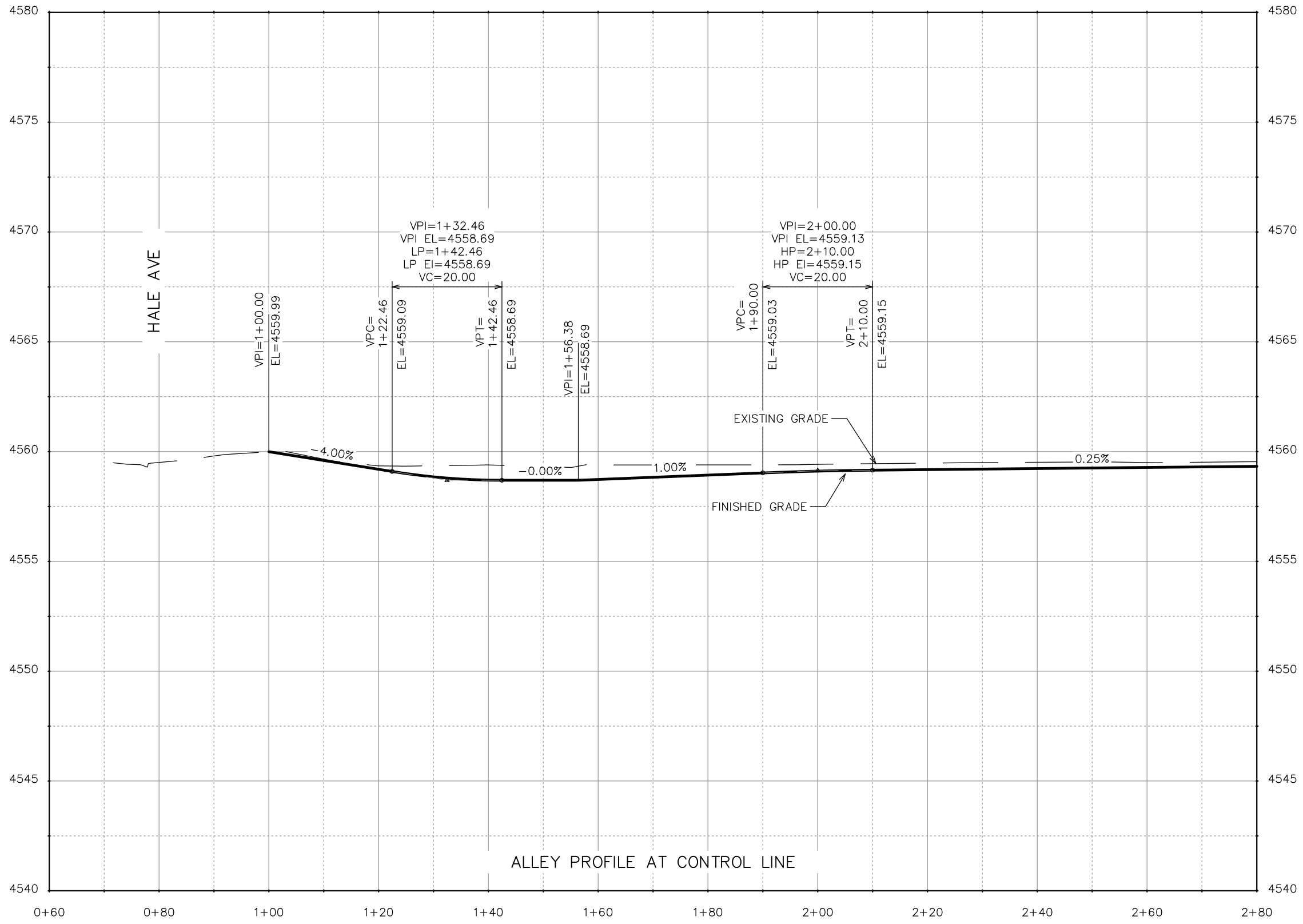


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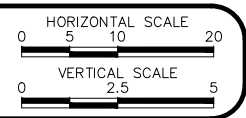
**ST-22 CRAWFORD-ROCKAWAY ALLEY  
IMPROVEMENT PLAN - 3 OF 3**  
July 6, 2023



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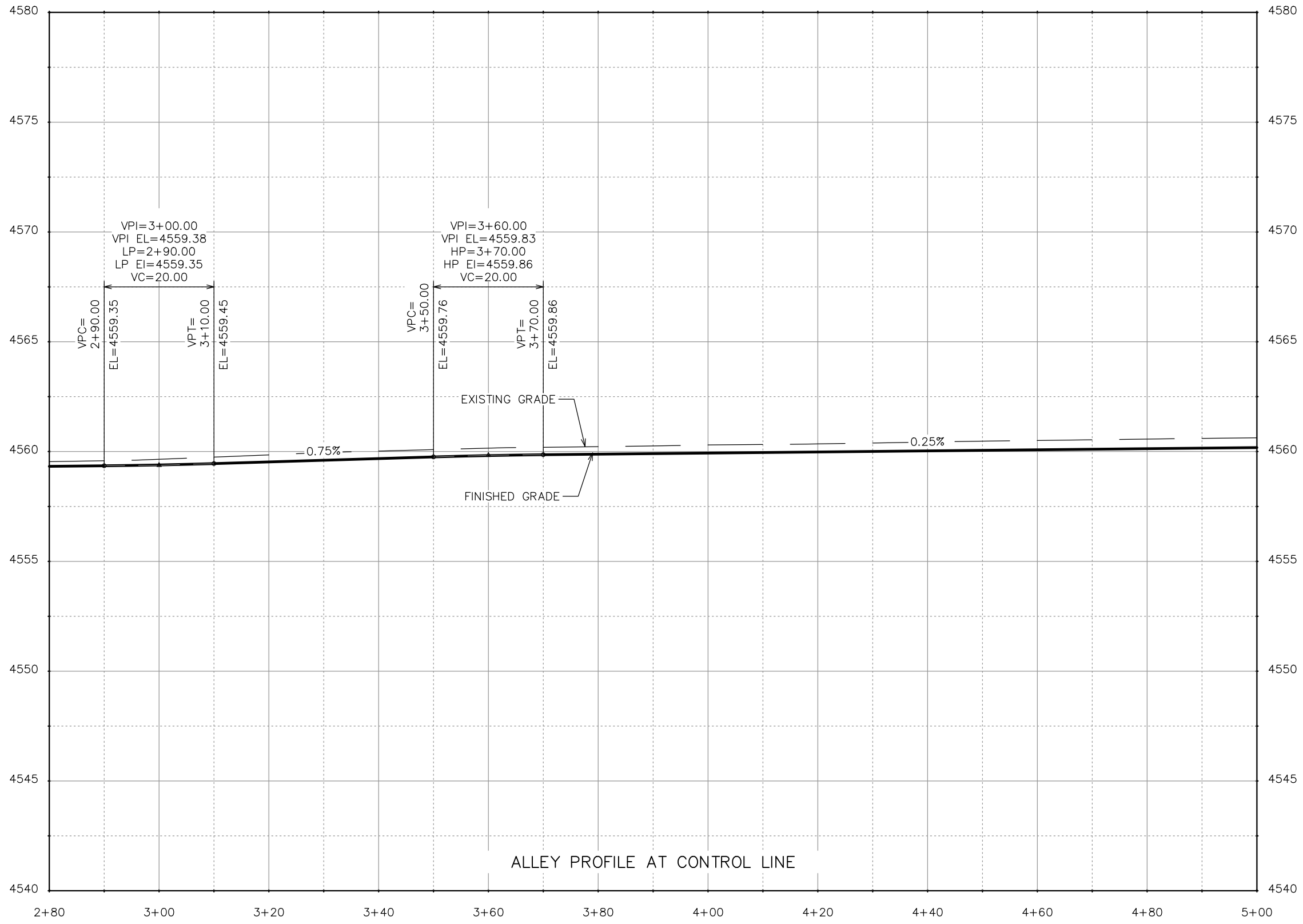
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ST-22 CRAWFORD-ROCKAWAY ALLEY  
ALLEY PROFILES - 1 OF 5  
July 6, 2023

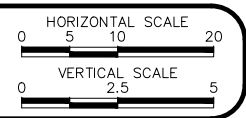


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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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REV 2			WC	2023
REV 3			WC	2023
REV 4			WC	2023

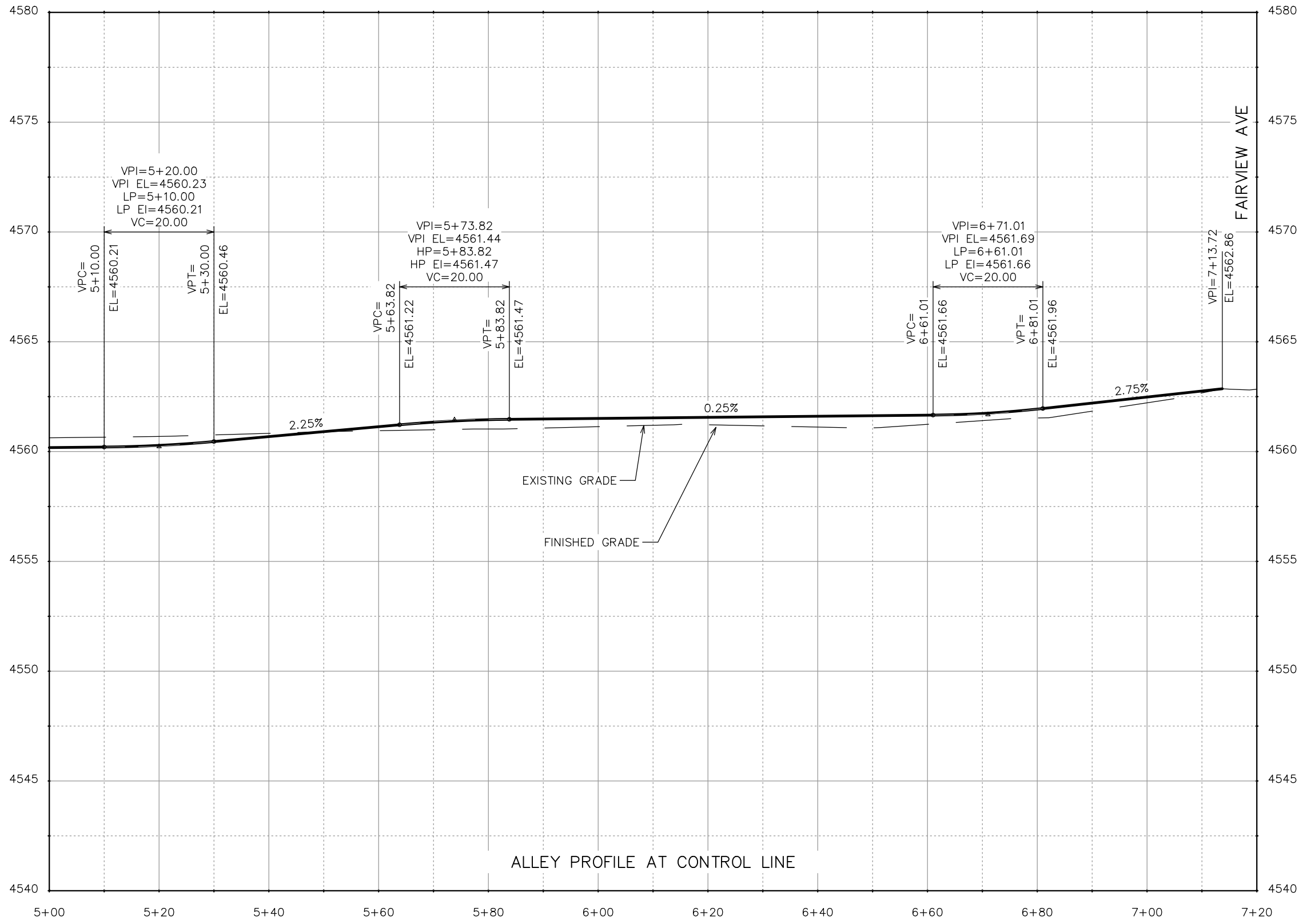


**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F000209

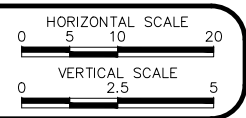
**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY PROFILES - 2 OF 5**  
July 6, 2023



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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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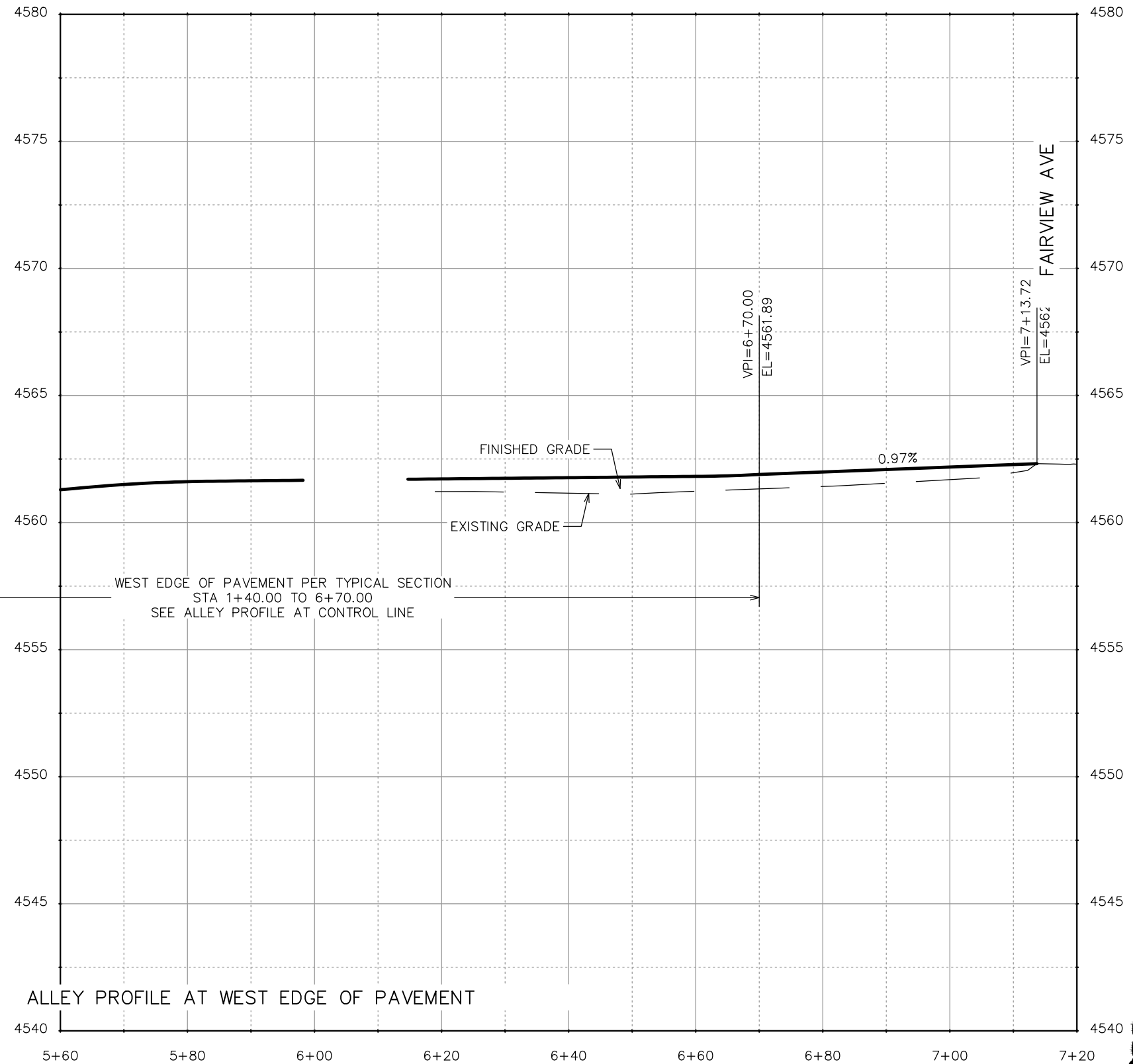
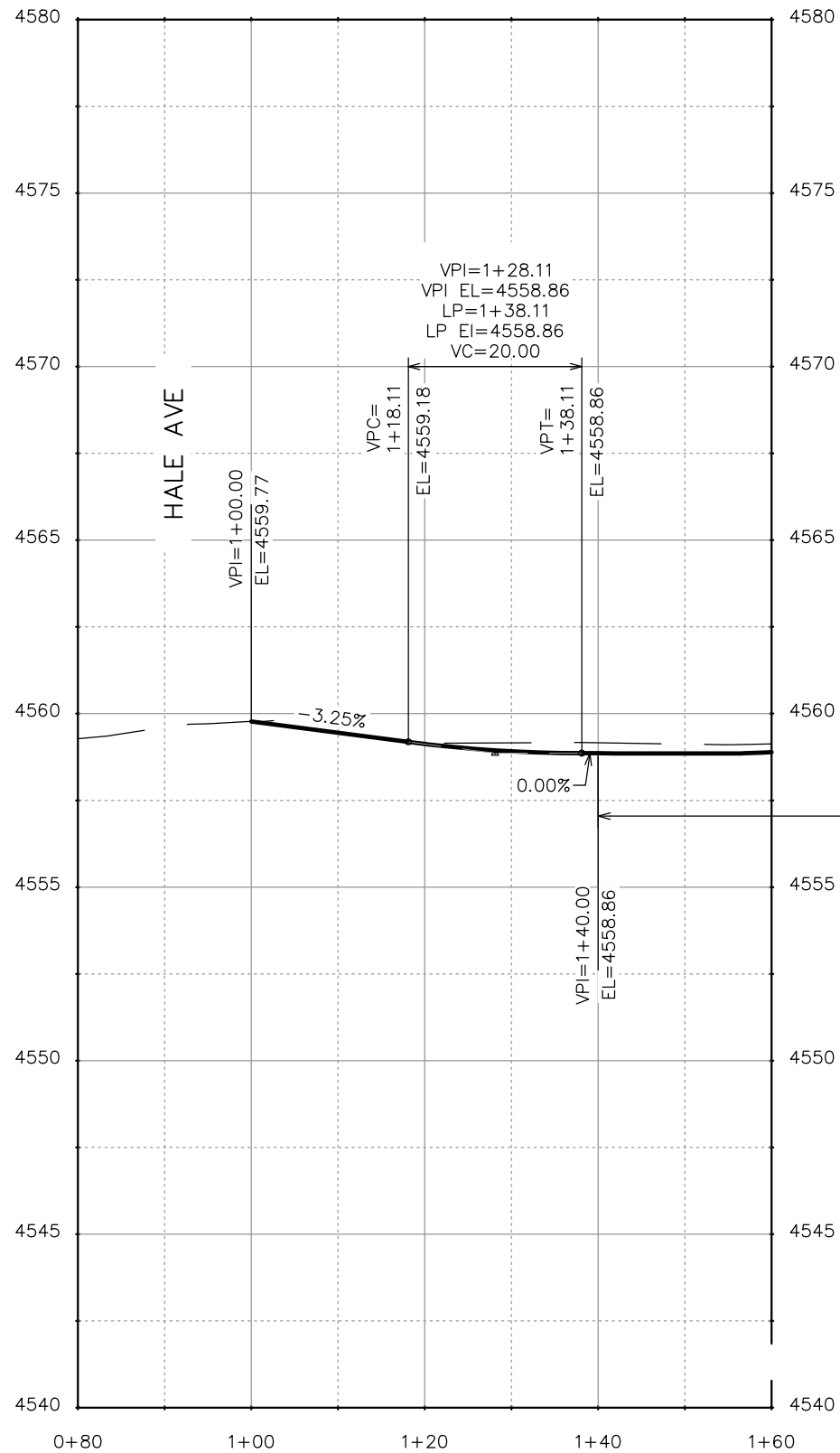


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ENGINEERING DIVISION**  
PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY PROFILES - 3 OF 5**  
July 6, 2023



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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
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REVISION $\Delta$ REV 2			WC	2023
REVISION $\Delta$ REV 3			WC	2023
REVISION $\Delta$ REV 4			WC	2023

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0 2.5 5	VERTICAL SCALE

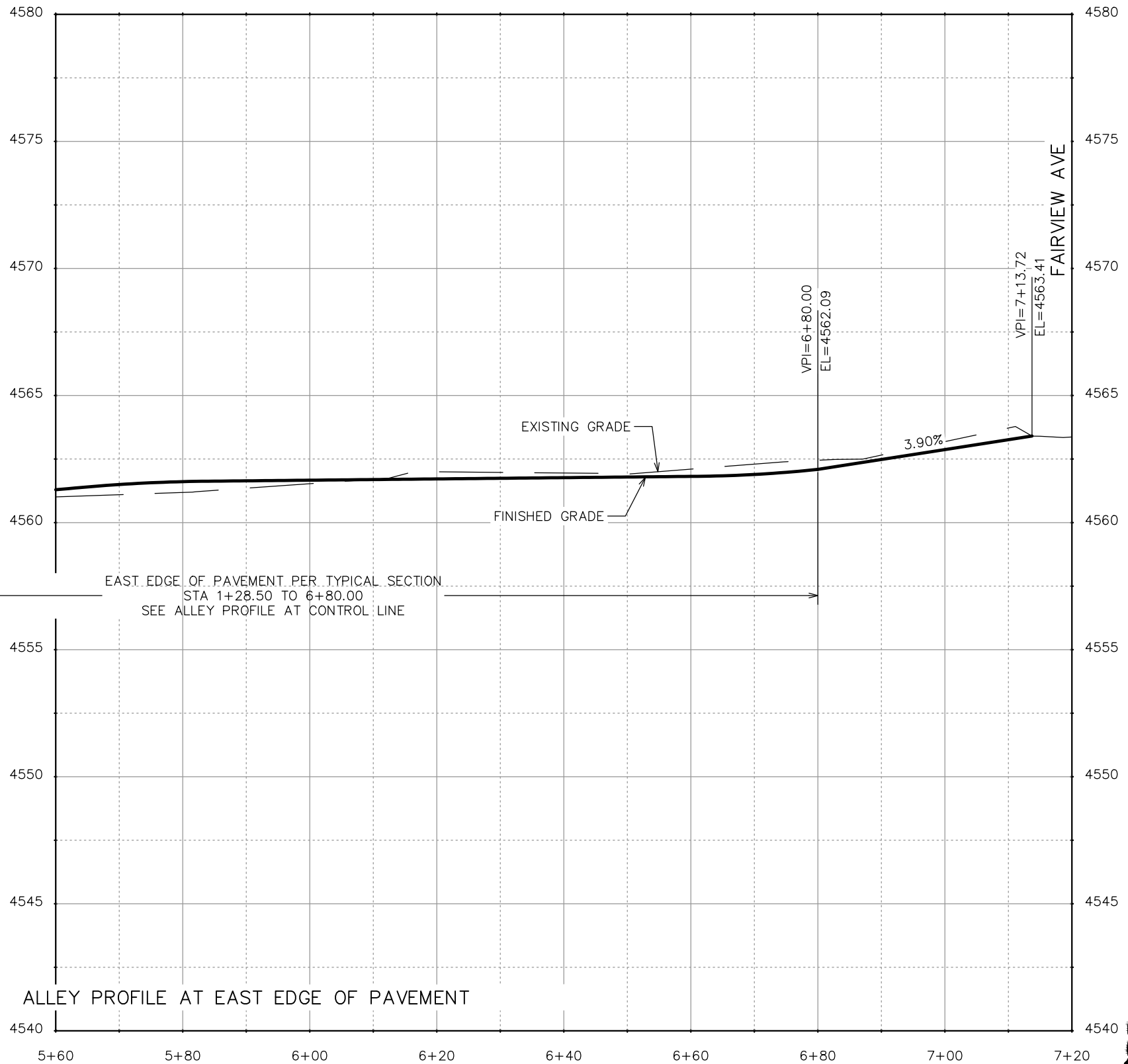
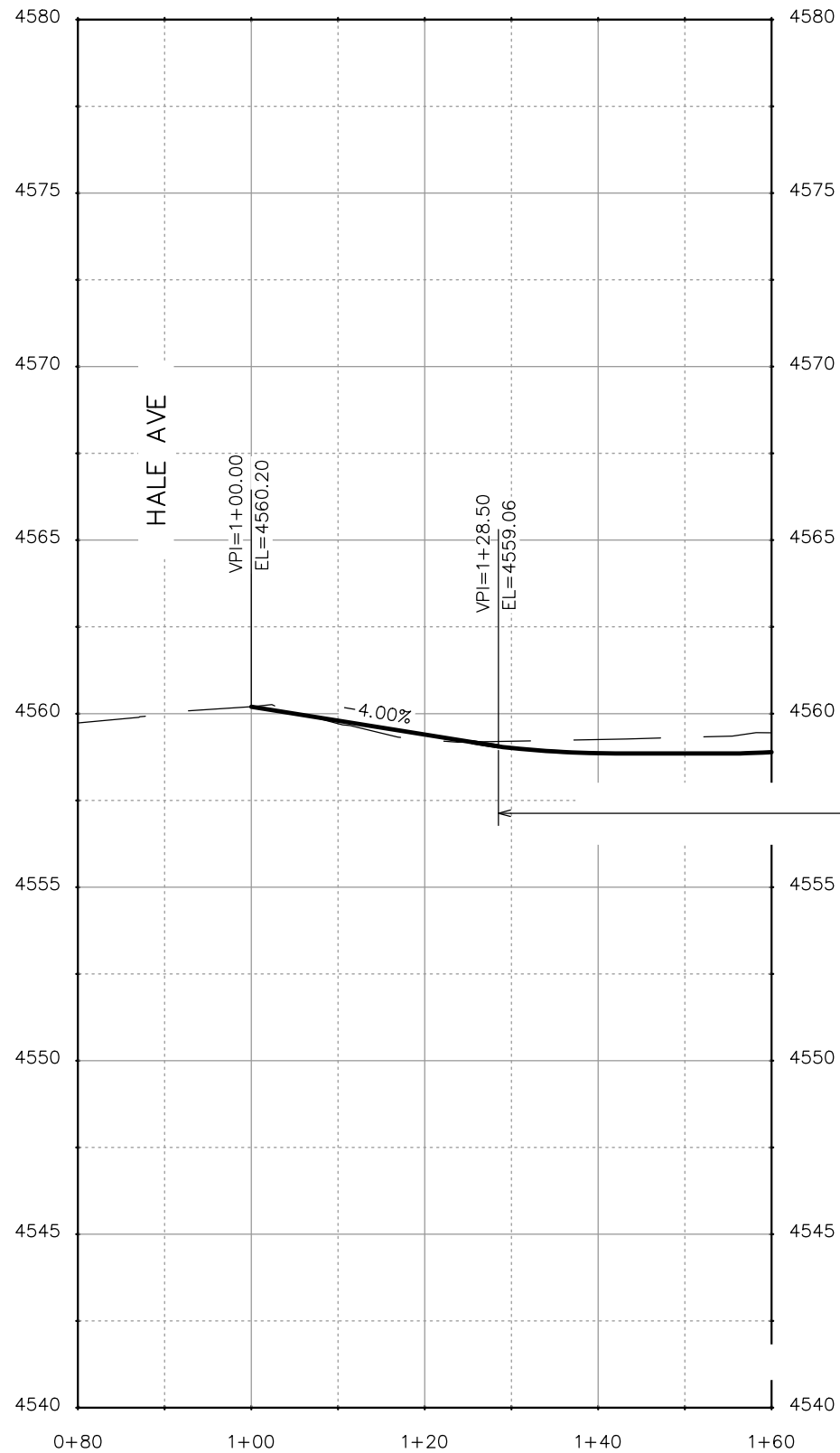


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ENGINEERING DIVISION**  
PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY PROFILES - 4 OF 5**  
July 6, 2023

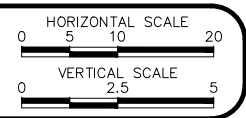


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ALLEY PROFILE AT EAST EDGE OF PAVEMENT

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE
REVISION $\Delta$ REV 1			WC	2023
REVISION $\Delta$ REV 2			WC	2023
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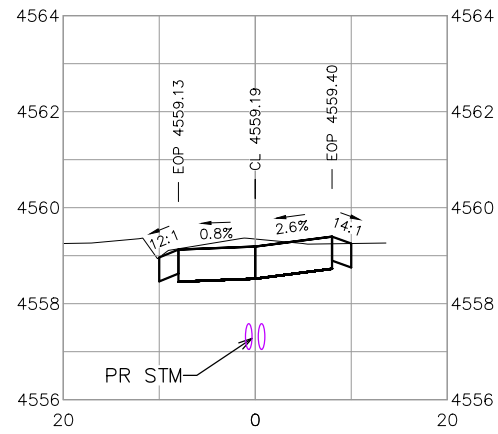


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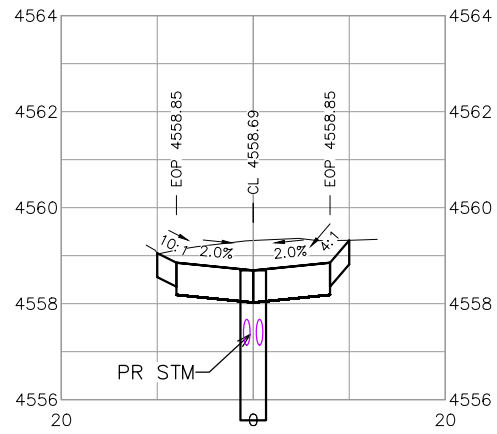
**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY PROFILES - 5 OF 5**  
July 6, 2023



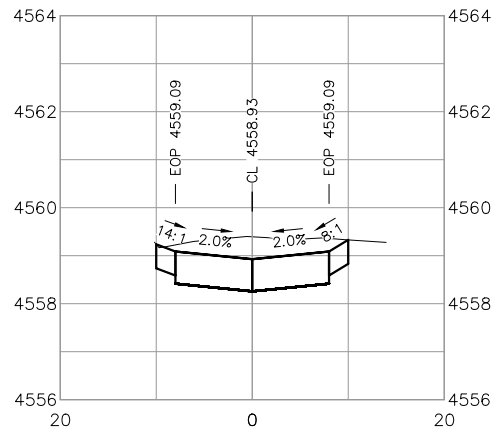
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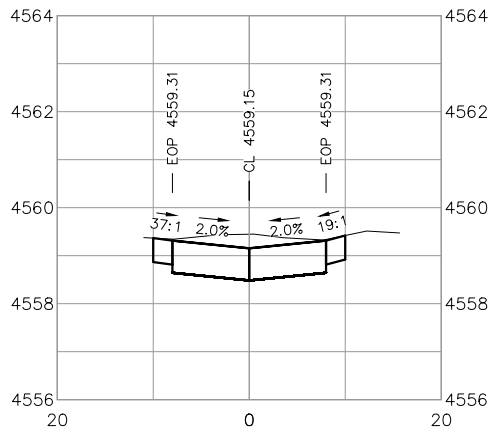
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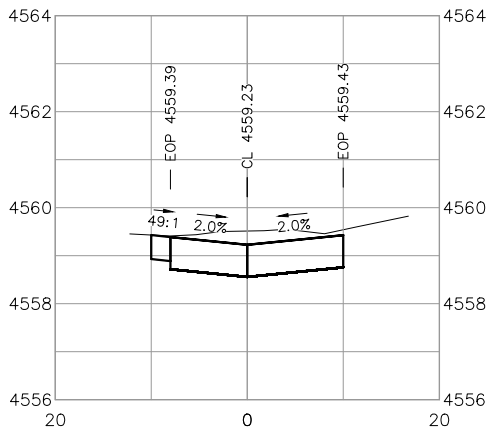
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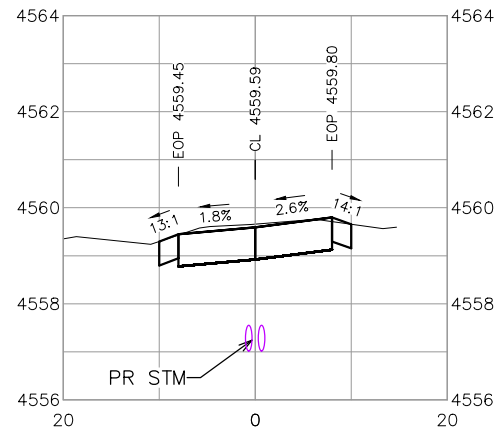
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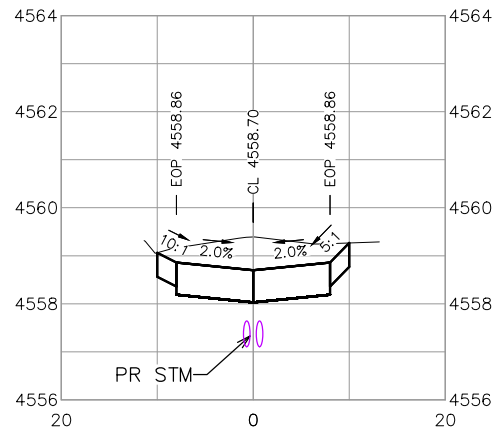
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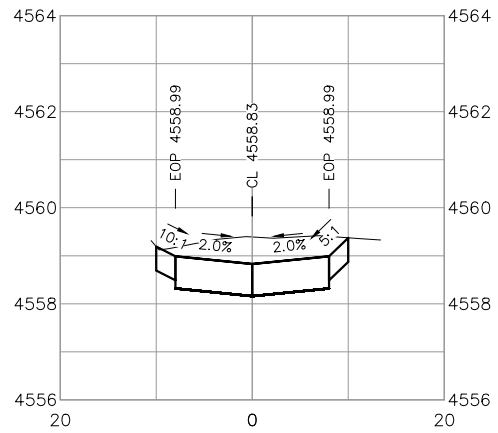
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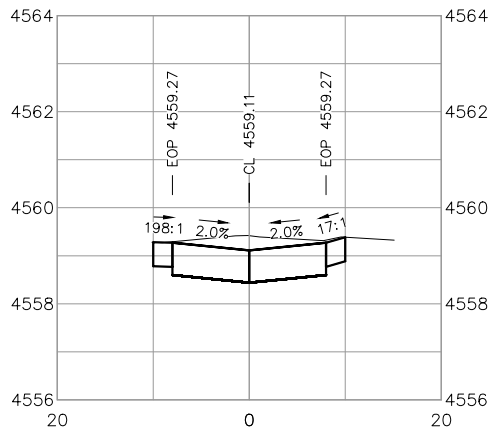
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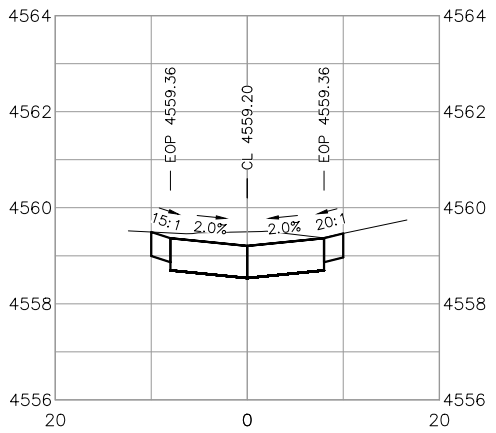
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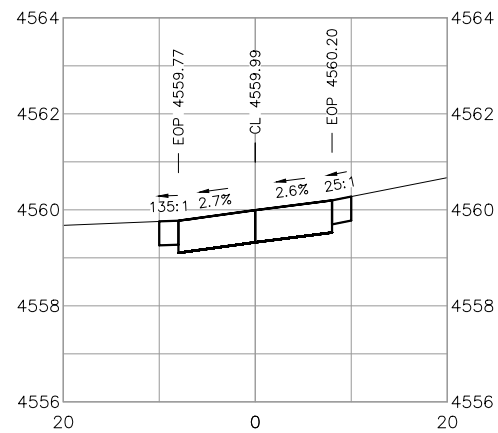
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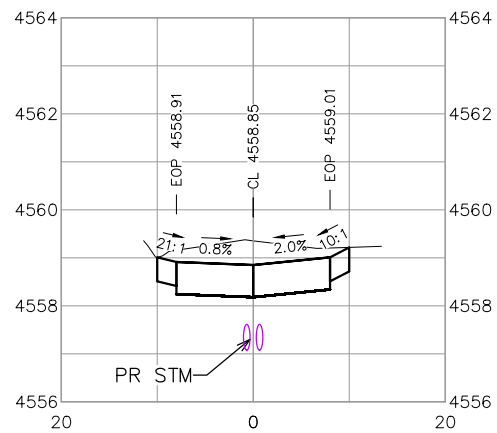
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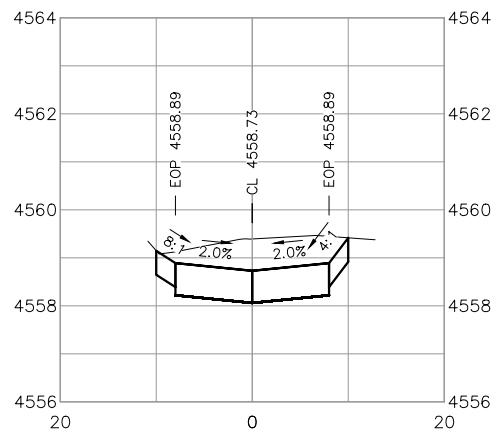
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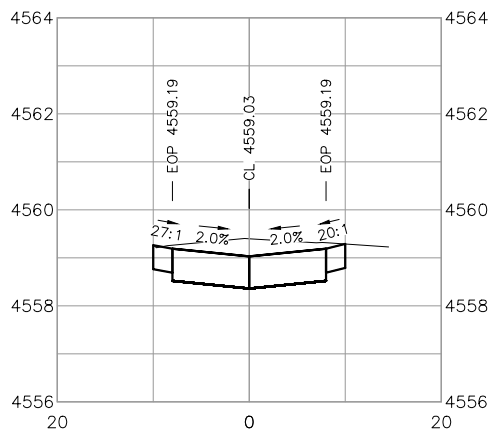
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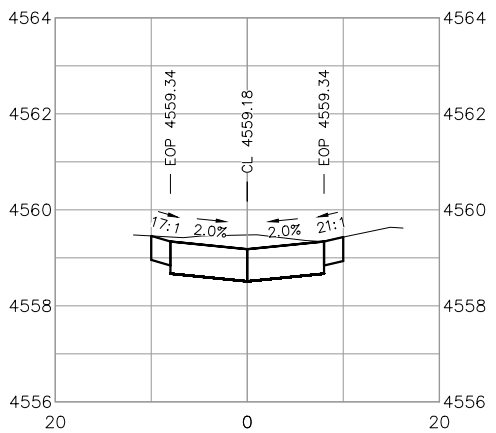
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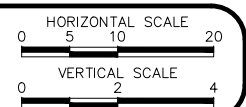
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REVISION	DESCRIPTION	DATE
REV 1		
REV 2		
REV 3		
REV 4		

DRAWN BY	WC	DATE	2023
DESIGNED BY	WC	DATE	2023
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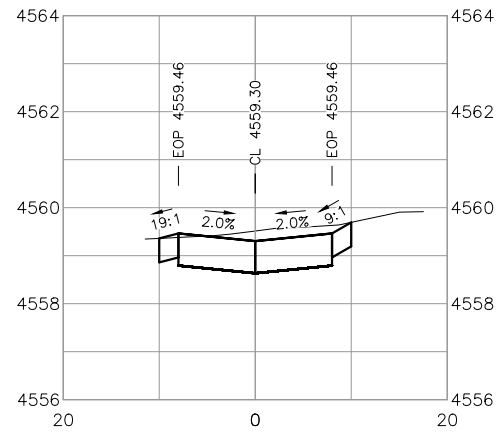


**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F000209

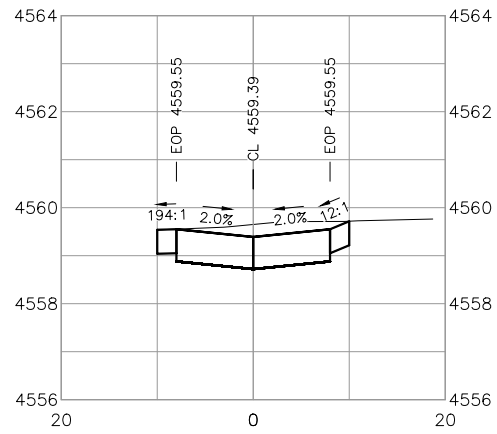
**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY CROSS SECTIONS - 1 OF 5**  
July 6, 2023



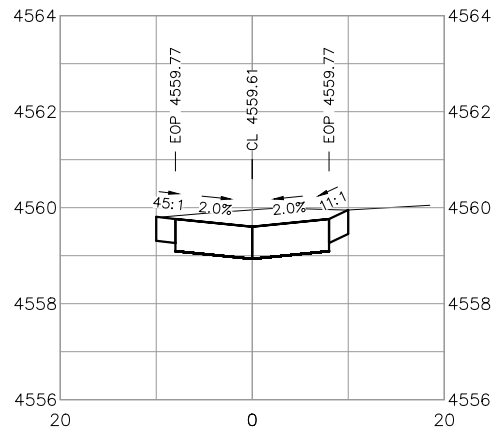
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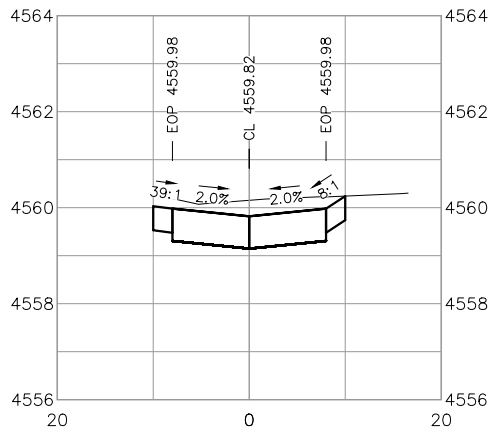
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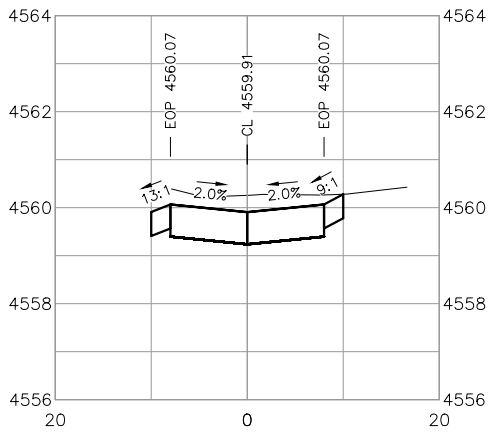
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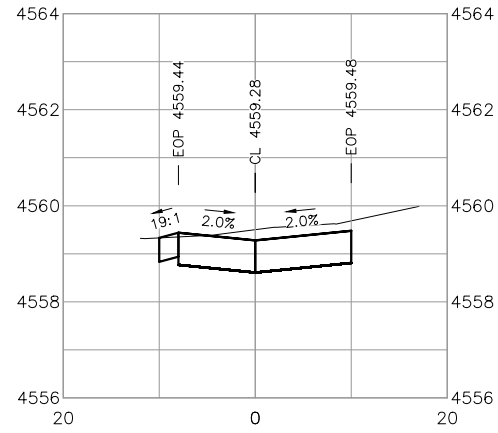
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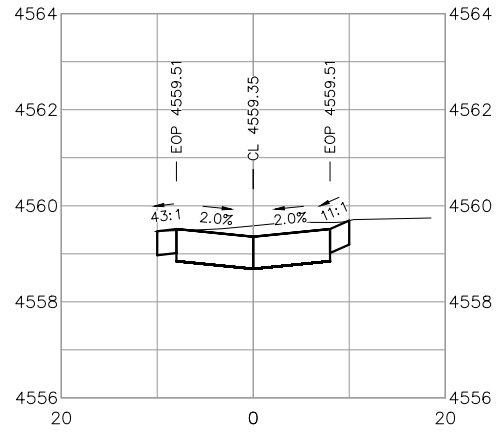
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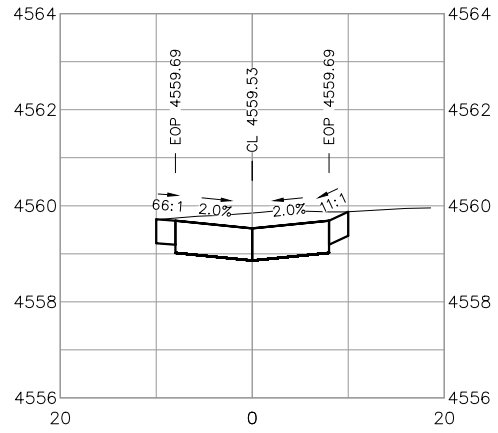
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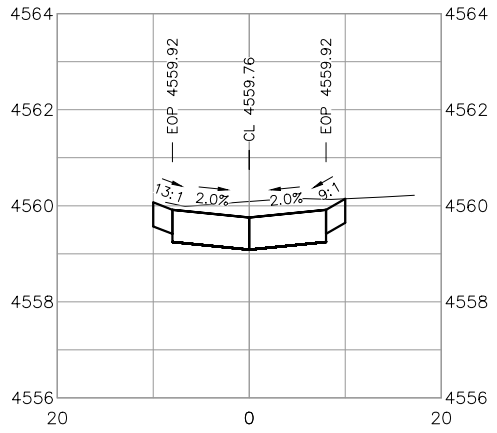
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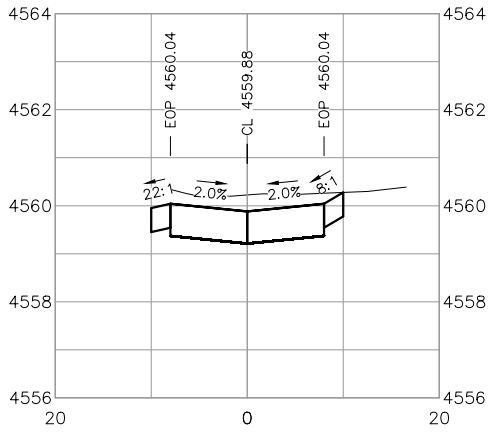
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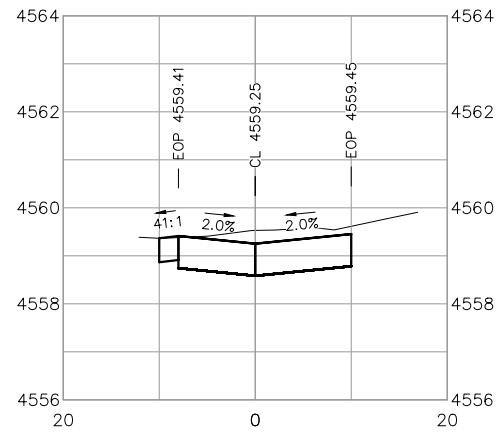
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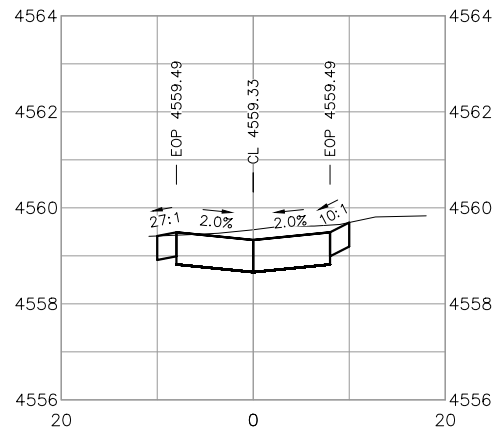
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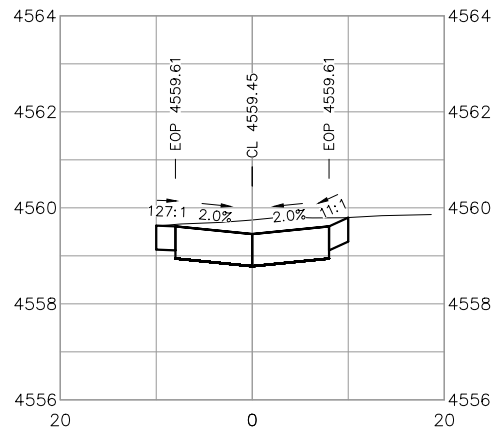
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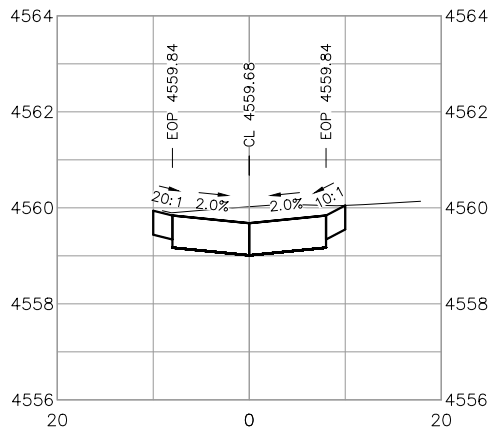
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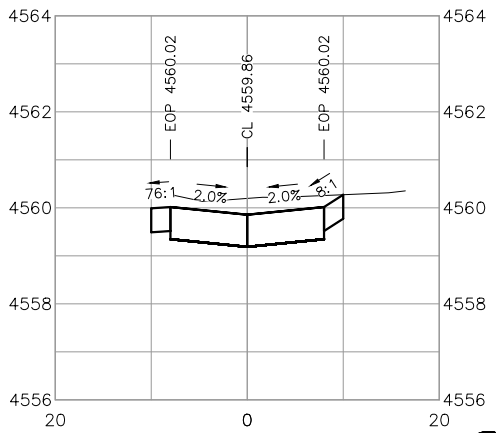
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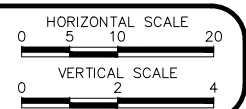
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REVISION	DESCRIPTION	DATE
REV 1		
REV 2		
REV 3		
REV 4		

DRAWN BY	WC	DATE	2023
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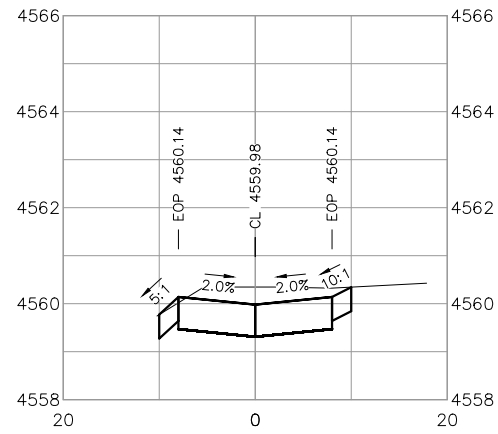
**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY CROSS SECTIONS - 2 OF 5**  
July 6, 2023

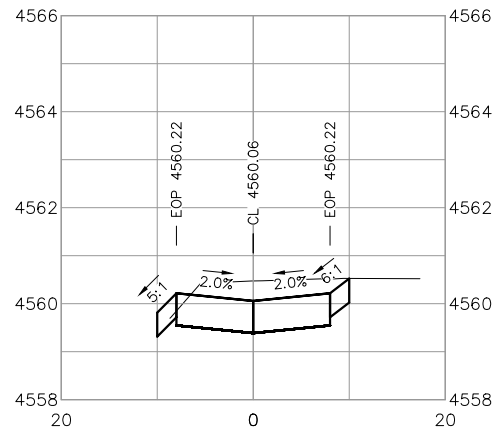


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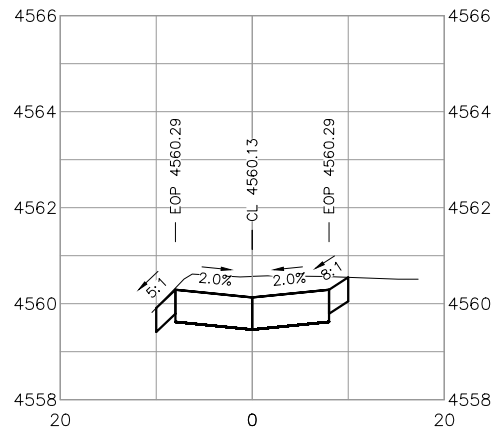




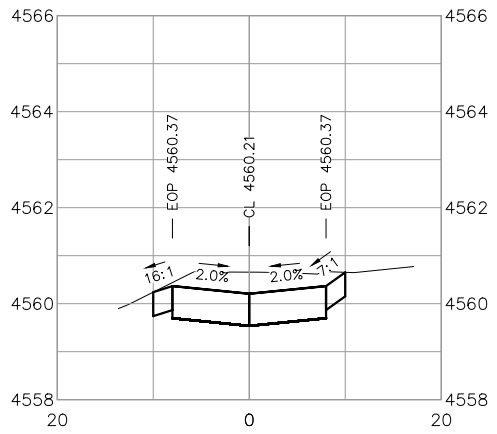
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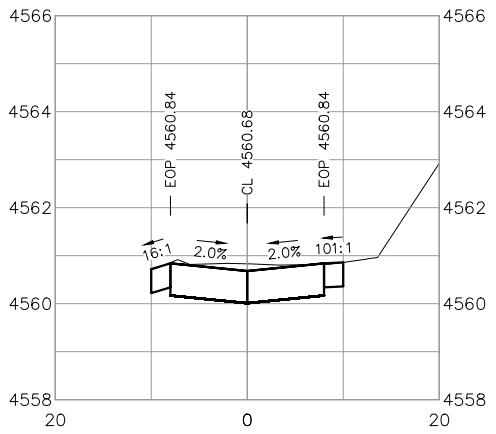
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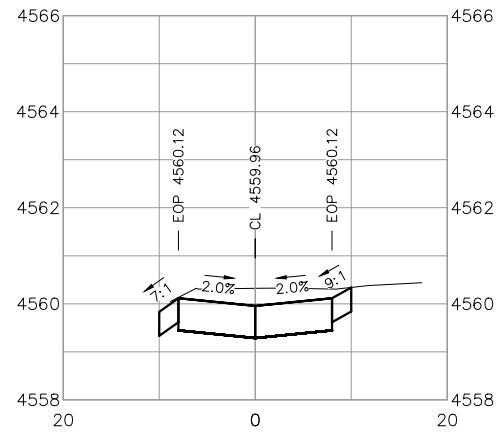
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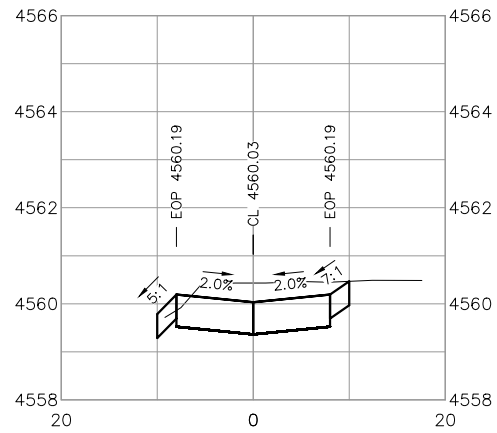
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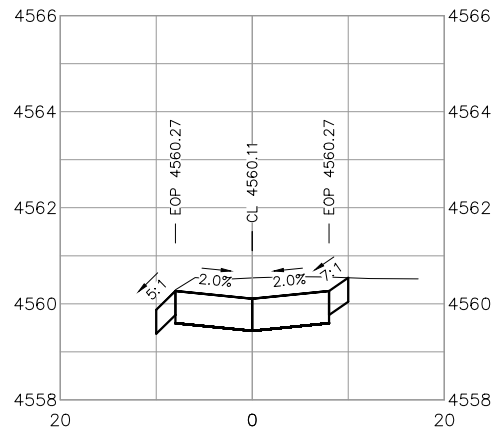
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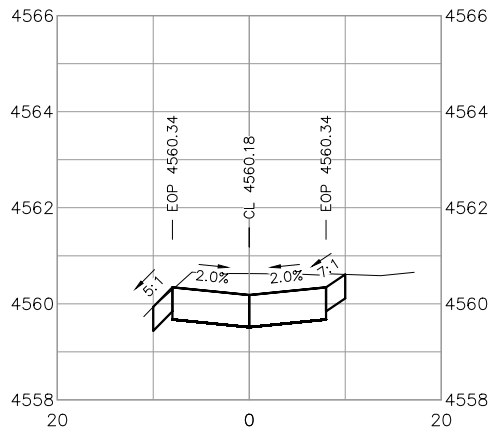
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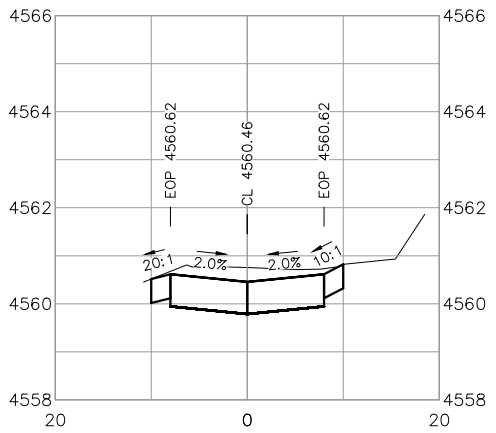
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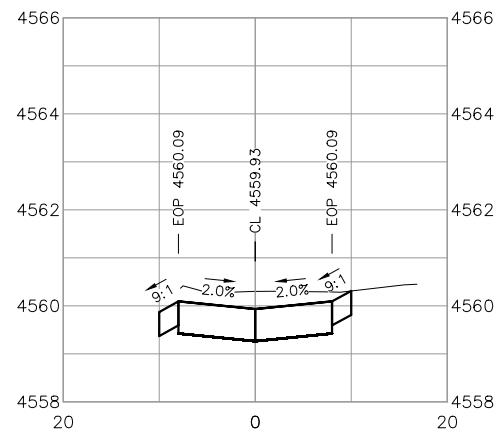
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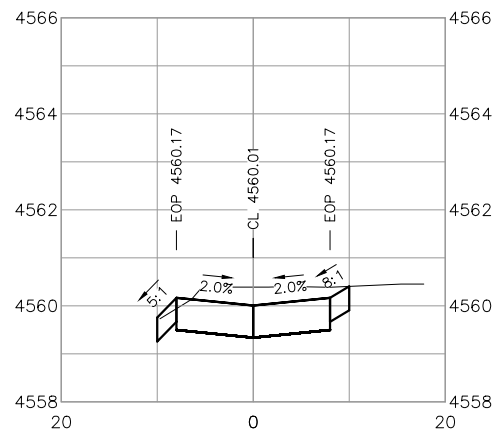
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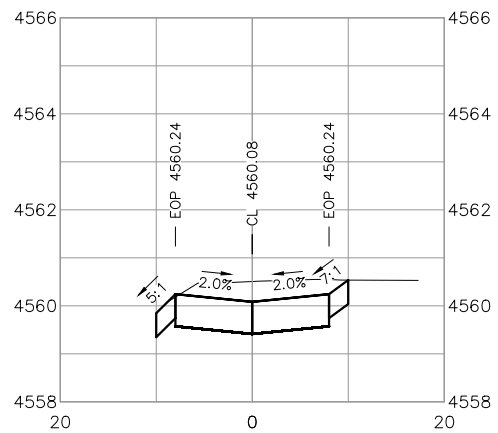
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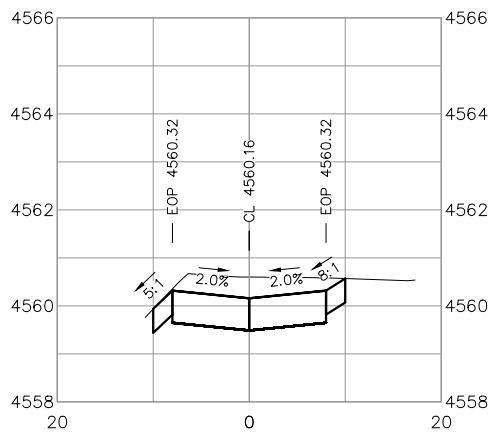
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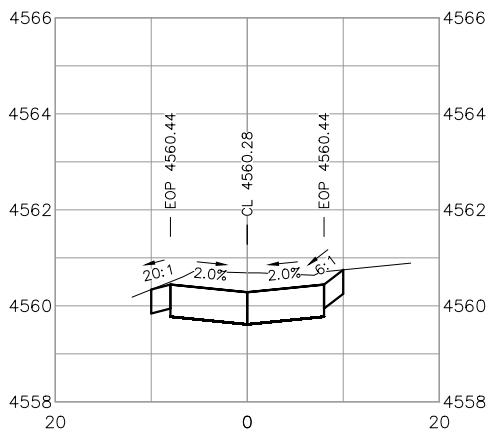
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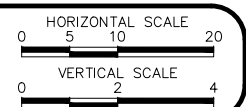
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REVISION	DESCRIPTION	DATE
REVISION 1		
REVISION 2		
REVISION 3		
REVISION 4		

DRAWN BY	WC	DATE	2023
DESIGNED BY	WC	DATE	2023
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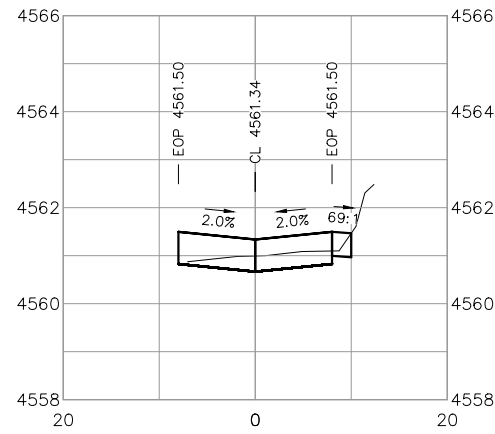


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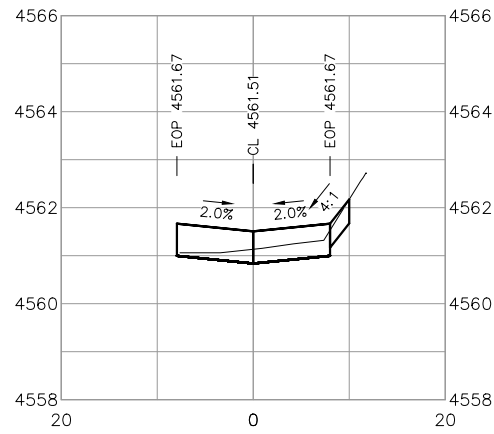
**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY CROSS SECTIONS - 3 OF 5**  
July 6, 2023



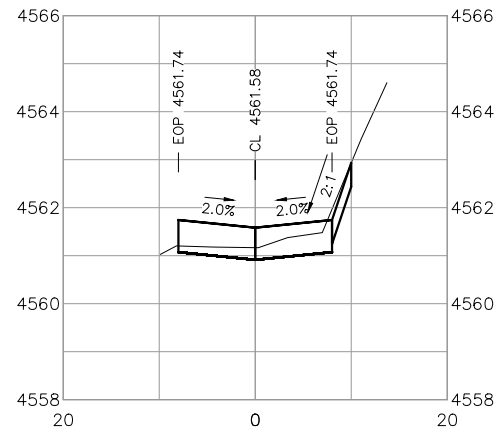
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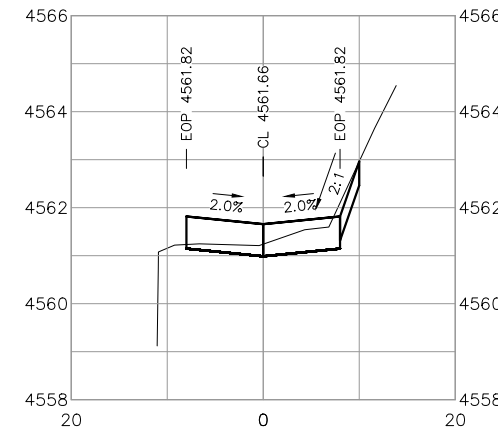
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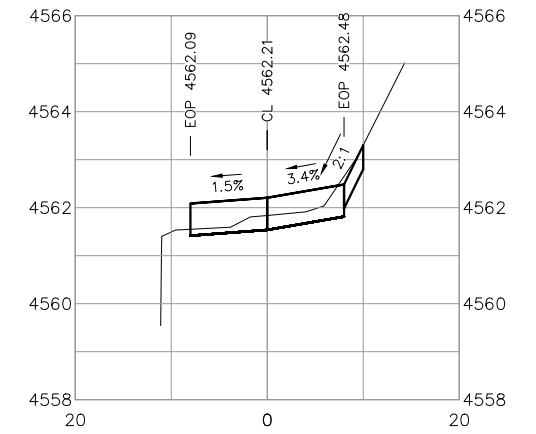
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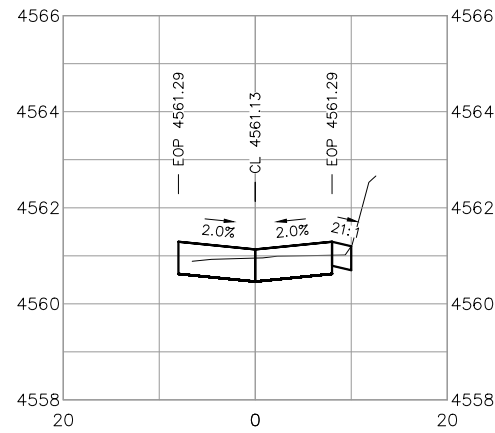
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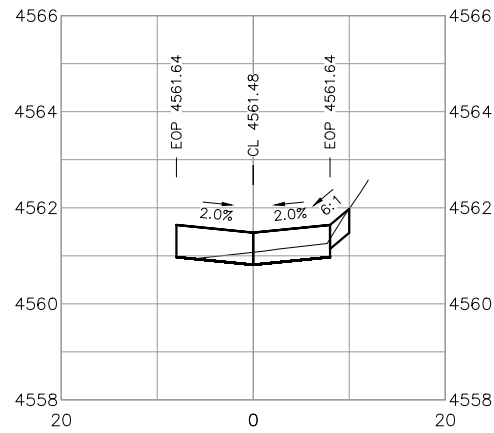
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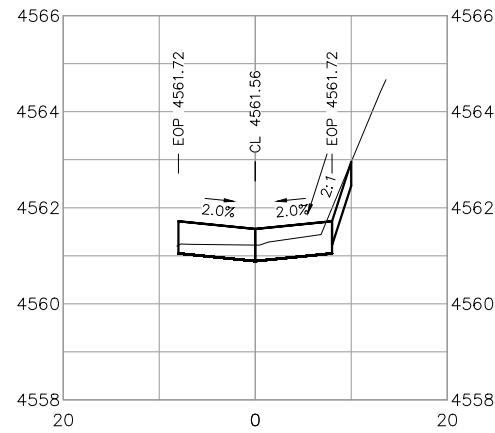
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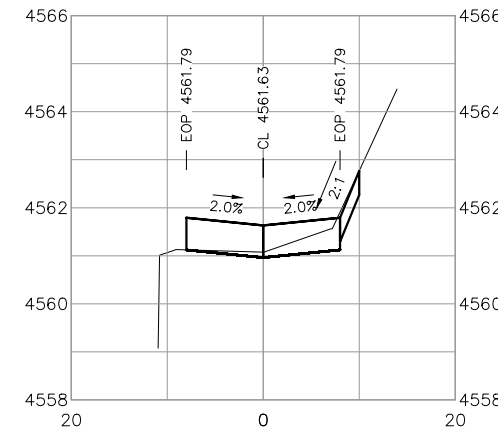
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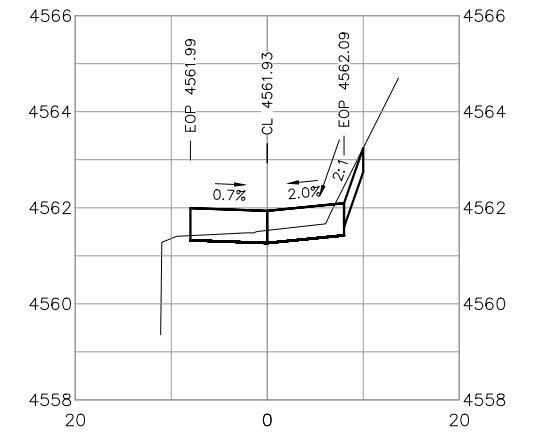
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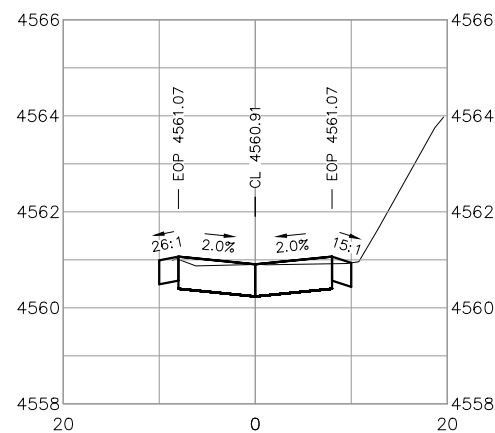
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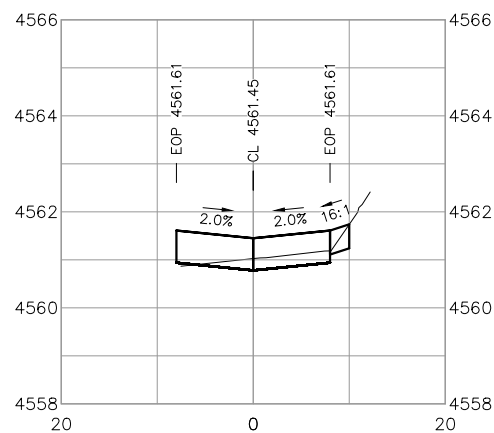
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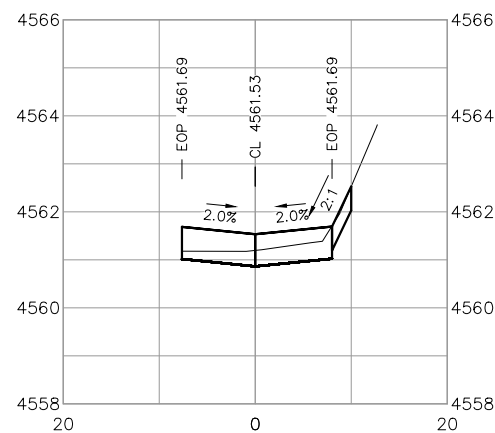
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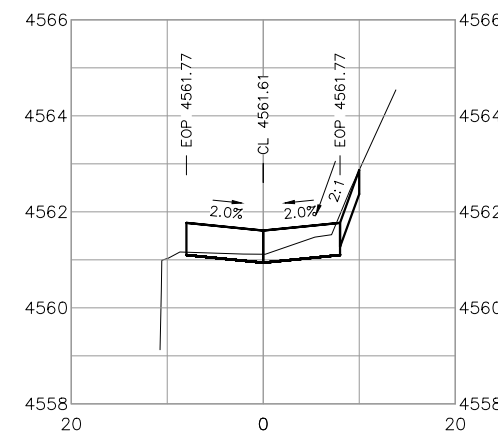
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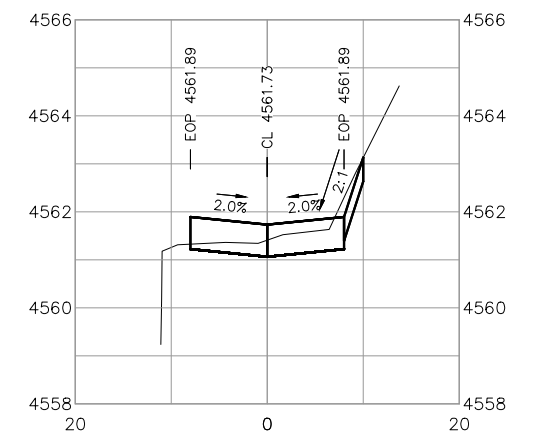
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STA 6+10.00



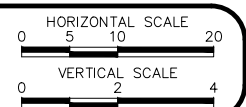
STA 6+40.00



STA 6+70.00

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REVISION $\Delta$ REV 2		
REVISION $\Delta$ REV 3		
REVISION $\Delta$ REV 4		

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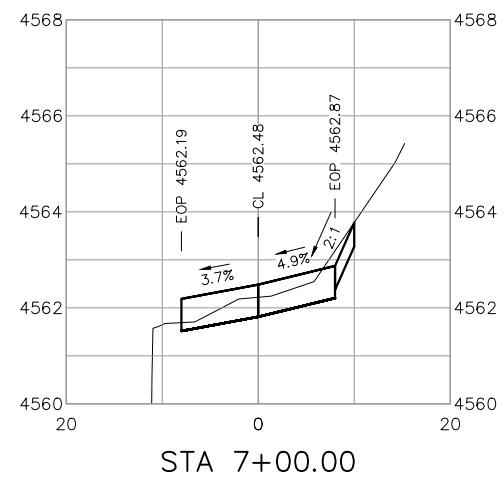
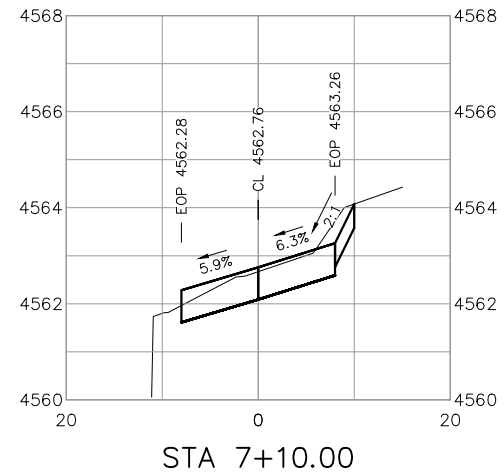
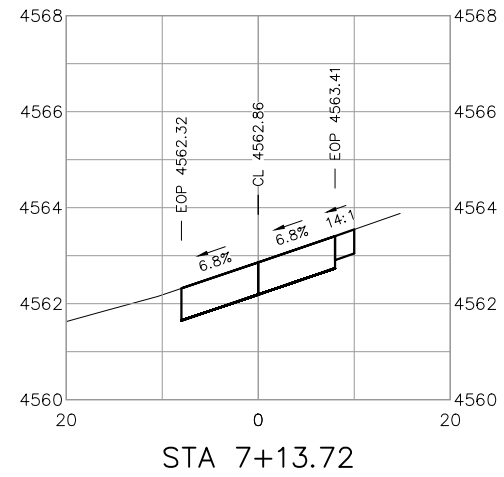


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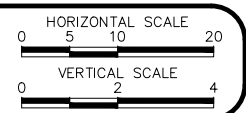
**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY CROSS SECTIONS - 4 OF 5**  
July 6, 2023



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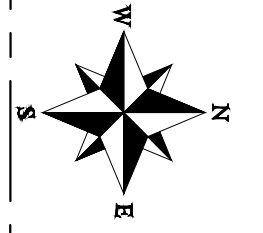


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**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
**ALLEY CROSS SECTIONS - 5 OF 5**  
July 6, 2023



CONTOUR INTERVAL = 0.1 FT



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520 ROCKAWAY AVE  
BELTRAN MARCO ANTONIO

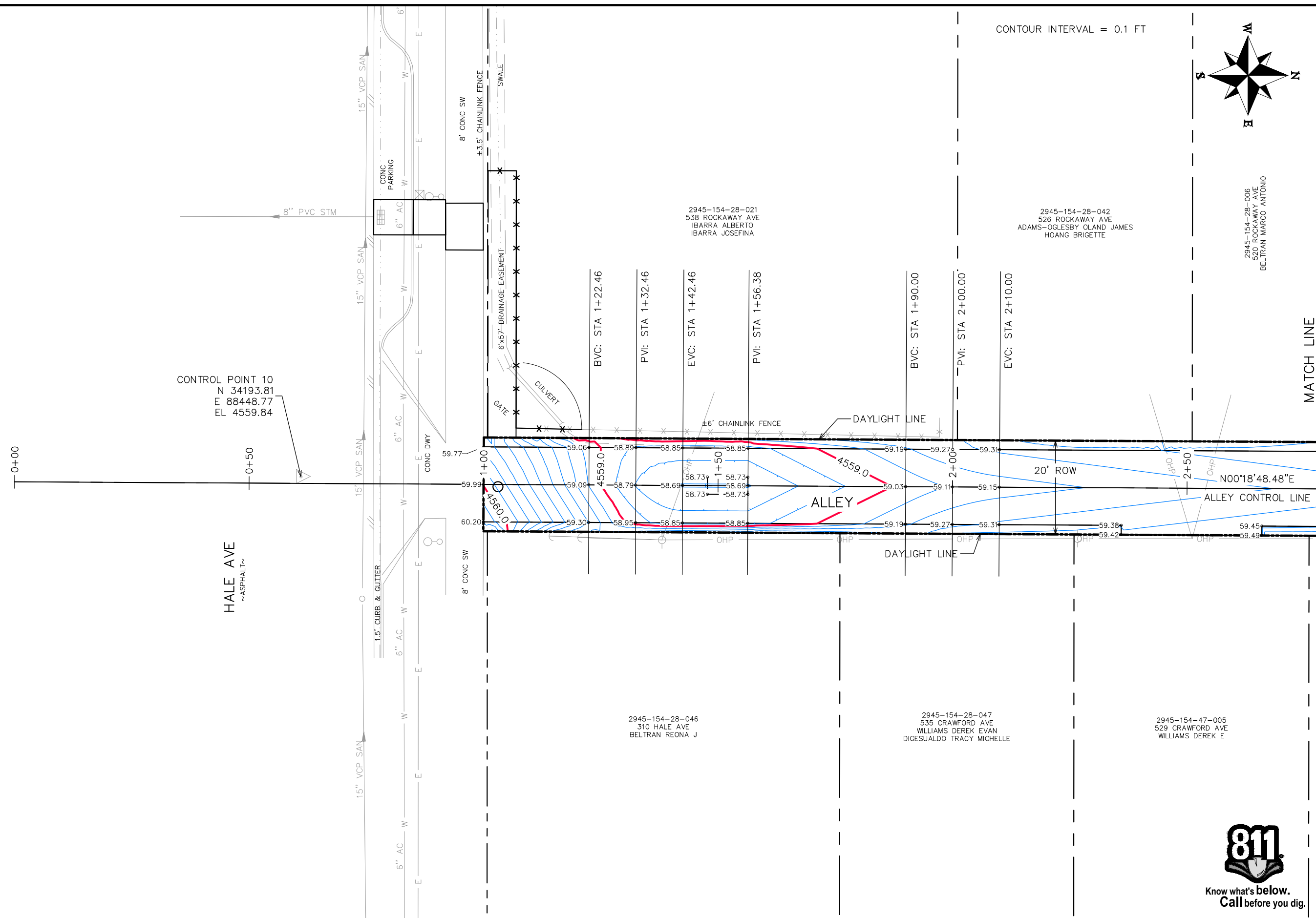
2945-154-28-042  
526 ROCKAWAY AVE  
ADAMS-OGLESBY OLAND JAMES  
HOANG BRIGETTE

2945-154-28-021  
538 ROCKAWAY AVE  
IBARRA ALBERTO  
IBARRA JOSEFINA

2945-154-28-046  
310 HALE AVE  
BELTRAN REONA J

2945-154-28-047  
535 CRAWFORD AVE  
WILLIAMS DEREK EVAN  
DIGESUALDO TRACY MICHELLE

2945-154-47-005  
529 CRAWFORD AVE  
WILLIAMS DEREK E



CONTROL POINT 10  
N 34193.81  
E 88448.77  
EL 4559.84

HALE AVE  
~ ASPHALT ~

ALLEY

MATCH LINE

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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REVISION $\Delta$ REV 2		--	WC	2023	
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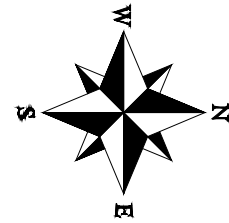
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**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
STAKING PLAN - 1 OF 3  
July 6, 2023



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CONTOUR INTERVAL = 0.1 FT



MATCH LINE

MATCH LINE

2945-154-28-007  
514 ROCKAWAY AVE  
GARDNER GARTH E  
GARDNER CARLA A

2945-154-28-008  
510 ROCKAWAY AVE  
LANDEROS HILDA M  
LANDEROS EDUARDO

2945-154-28-009  
448 ROCKAWAY AVE  
GALLEGOS ADELMO NESTOR

2945-154-28-010  
442 ROCKAWAY AVE  
LEON JUSTO  
LEON MANUELA R

2945-154-28-018  
BADINI LARRY J  
WHEELER GEORGE E

2945-154-28-011  
436 ROCKAWAY AVE  
MCLAUGHLIN REAL ESTATE LLC

2945-154-28-017  
428 ROCKAWAY AVE  
PEEBLES DEJARNATT LIVING TRUST DATED  
SEPTEMBER 8 2017

BVC: STA 2+90.00

PVI: STA 3+00.00

EVC: STA 3+10.00

BVC: STA 3+50.00

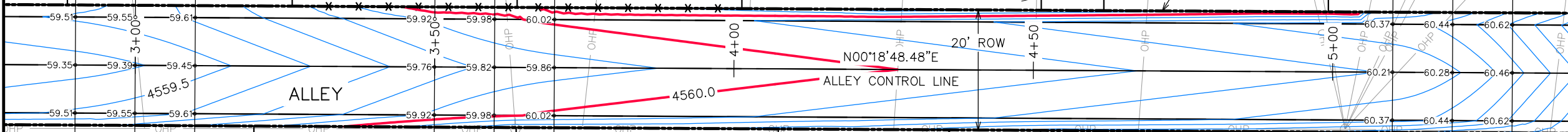
PVI: STA 3+60.00

EVC: STA 3+70.00

BVC: STA 5+10.00

PVI: STA 5+20.00

EVC: STA 5+30.00



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505 CRAWFORD AVE  
DIGESUALDO TRACY M

2945-154-47-003  
491 CRAWFORD AVE  
DIGESUALDO TRACY M

2945-154-47-002  
477 CRAWFORD AVE  
MEAN KITTY INVESTMENTS LLC

2945-154-47-001  
463 CRAWFORD AVE  
MEAN KITTY INVESTMENTS LLC

2945-154-28-039  
MEAN KITTY INVESTMENTS LLC

2945-154-28-038  
BIRCH KEVIN F  
BIRCH KATHLEEN O

2945-154-28-035  
LEVY GENE

2945-154-28-027  
SMITH WALTER C

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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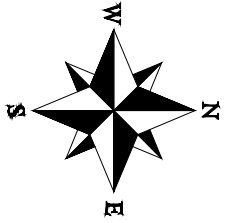
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PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
STAKING PLAN - 2 OF 3  
July 6, 2023



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CONTOUR INTERVAL = 0.1 FT



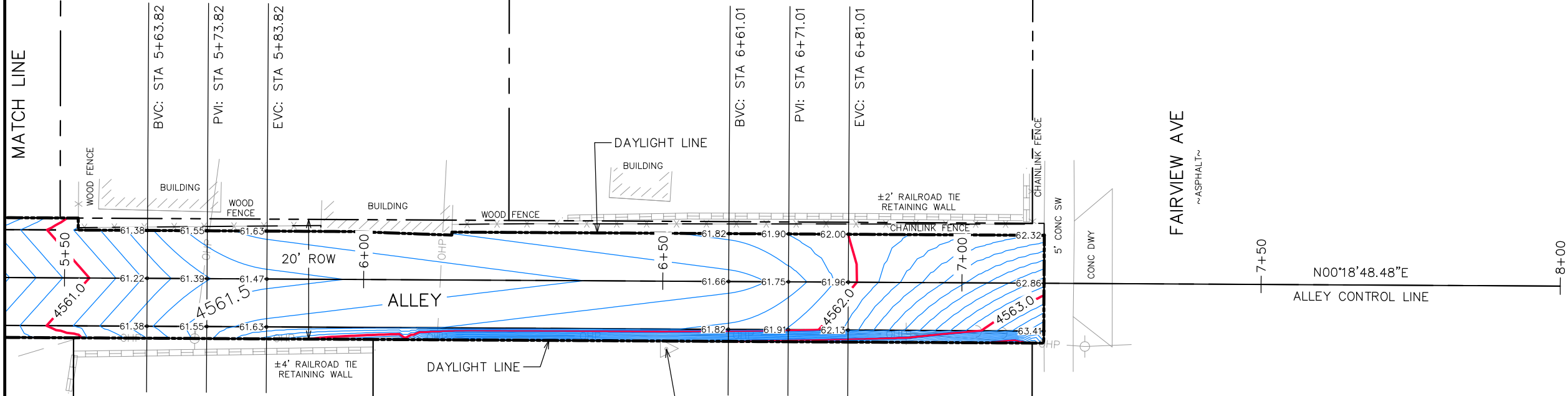
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PAGE VALENCIA MARISSA  
PAGE COLLIN DOUGLAS

2945-154-28-041  
402 ROCKAWAY AVE  
CORDOVA JOAN

2945-154-28-001  
421 CRAWFORD AVE  
409 CRAWFORD LLC

2945-154-28-019  
409 CRAWFORD AVE  
SMITH WALTER C

MATCH LINE



CONTROL POINT 11  
N 34783.32  
E 88464.72  
EL 4563.99

REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
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**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
STAKING PLAN - 3 OF 3  
July 6, 2023



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**STORM WATER MANAGEMENT PLAN (SWMP)**

**1. SITE DESCRIPTION**

THE CONTRACTOR SHALL COMPLY WITH ALL CITY OF GRAND JUNCTION CONTRACTUAL REQUIREMENTS AND ALL REQUIREMENTS ASSOCIATED WITH THE SWMP ON THIS PROJECT. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL UPDATE THE SWMP TO REFLECT CURRENT PROJECT SITE CONDITIONS.

**A. PROJECT SITE LOCATION:**

LOCATION OR ADDRESS OF CONSTRUCTION OFFICE: N/A

**B. PROJECT SITE DESCRIPTION:**

THE EXISTING ALLEY VARIES IN WIDTH AND HAS A GRAVEL SURFACE. THE PROJECT GOAL IS TO CONSTRUCT A 16'-WIDE ALLEY WITH CONCRETE PAVEMENT. THE SHOULDERS WILL BE 2' WIDE AND GRAVELED. AREA INLETS AND STORM DRAIN PIPE WILL CONVEY RUNOFF FROM THE LOW POINT NEAR HALE AVENUE TO THE EXISTING STORM DRAIN IN HALE AVENUE. THE STORM DRAIN IN HALE AVENUE DISCHARGES TO THE COLORADO RIVER ±800 FEET AWAY TO THE WEST.

**C. PROPOSED SEQUENCING FOR MAJOR CONSTRUCTION ACTIVITIES:**

INITIAL EROSION CONTROL MEASURES WILL BE INSTALLED. THE REMOVALS WILL OCCUR. THE PROPOSED STORM DRAIN FACILITIES WILL BE INSTALLED. THE EXISTING GRAVEL SURFACE MATERIALS WILL BE REMOVED. INTERIM CONTROL MEASURES WILL BE INSTALLED. THE SUBGRADE WILL BE RECONDITIONED AND GRADED. BASE COURSE AND CONCRETE WILL BE PLACED AND FINISHED. THE GRAVEL SHOULDERS WILL BE PLACED AND FINAL STABILIZATION WILL BE ACHIEVED.

**D. ACRES OF DISTURBANCE:**

- TOTAL AREA OF CONSTRUCTION SITE (LOC): 0.29 ACRES
- TOTAL AREA OF PROPOSED DISTURBANCE (LDA): 0.29 ACRES. TOTAL AREA OF IMPERVIOUS SURFACE PRE-PROJECT AND POST-PROJECT WILL REMAIN EQUAL. THE EXISTING ALLEY GRAVEL HAS BEEN COMPACTED BY TRAFFIC AND HAS BEEN EVALUATED AS AN IMPERVIOUS SURFACE.

**E. EXISTING SOIL DATA:**

THE DOMINANT SOIL AT THE SITE IS THE GREEN RIVER CLAY LOAM. THE SOIL TEXTURE IS CLAY LOAM UNDERLAIN BY FINE SANDY LOAM. THE POTENTIAL FOR EROSION IS RATED AS SLIGHT BY THE NRCS. DATA SOURCE(S): NRCS WEB SOIL SURVEY

**F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:**

**PRE-CONSTRUCTION**

DATE OF SURVEY: N/A  
 PERCENT EXISTING VEGETATIVE COVER: N/A – GRAVEL ALLEY  
 DESCRIPTION OF EXISTING VEGETATION: N/A – GRAVEL ALLEY  
 METHOD FOR DETERMINING PERCENT VEGETATIVE COVER: N/A  
 INCLUDE A MAP OR TABLE SHOWING TRANSECT LOCATIONS, PHOTOS DOCUMENTING PRE-CONSTRUCTION VEGETATIVE COVER, AND METHODOLOGY USED TO DETERMINE EXISTING VEGETATIVE COVER: N/A

**POST-CONSTRUCTION**

DATE OF SURVEY: N/A  
 PERCENT VEGETATIVE COVER: N/A  
 DESCRIPTION OF VEGETATION: N/A  
 THE METHOD USED TO DETERMINE PRE-CONSTRUCTION PERCENT COVER SHALL BE USED TO DETERMINE POST CONSTRUCTION PERCENT COVER.  
 INCLUDE MAP OR TABLE SHOWING TRANSECT LOCATIONS, PHOTOS DOCUMENTING POST-CONSTRUCTION VEGETATIVE COVER, AND METHODOLOGY USED TO DETERMINE EXISTING VEGETATIVE COVER: N/A

**2. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES**

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

**A. POTENTIAL POLLUTANT SOURCES**

REFER TO POTENTIAL POLLUTANT SOURCES IN SWMP SECTION 4A. EVALUATE, IDENTIFY AND DESCRIBE ALL POTENTIAL SOURCES OF POLLUTANTS AT THE SITE AND PLACE ANY CONTROL MEASURES REQUIRED TO CONTAIN POTENTIAL POLLUTANTS.

**B. OFFSITE DRAINAGE (RUN ON WATER):**

PLACE CONTROL MEASURES TO ADDRESS RUN-ON WATER IN ACCORDANCE WITH SUBSECTION 208.03.

**C. CONSTRUCTION DEWATERING:**

OBTAIN A CDPS DEWATERING PERMIT FROM CDPHE IF CONDITIONS OF THEIR LOW RISK GUIDANCE FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND ARE NOT MET.

**D. VEHICLE TRACKING CONTROL:**

CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH SUBSECTION 208.04.

**E. PERIMETER CONTROL:**

PERIMETER CONTROL SHALL BE ESTABLISHED AS THE FIRST ITEM ON THE SWMP TO PREVENT THE POTENTIAL FOR POLLUTANTS LEAVING THE CONSTRUCTION SITE BOUNDARIES, ENTERING THE STORMWATER DRAINAGE SYSTEM, OR DISCHARGING TO STATE WATERS. PERIMETER CONTROL MAY CONSIST OF BERMS, SILT FENCE, EROSION LOGS, EXISTING LANDFORMS, OR OTHER CONTROL MEASURES AS APPROVED.

**3. QUALIFIED STORMWATER MANAGERS**

**A. SWMP ADMINISTRATOR FOR DESIGN:**

INDIVIDUAL RESPONSIBLE FOR DEVELOPING SWMP PLAN SHEETS AND SWMP SITE MAPS DURING THE DESIGN PHASE.

NAME/TITLE AND CONTACT INFORMATION  
 WILLIAM COMERER, P.E., CFM  
 PROJECT ENGINEER  
 (970) 244-1417  
 WILLIAMC@GJCITY.ORG

**B. SWMP ADMINISTRATOR FOR CONSTRUCTION:**

(AS DEFINED IN SECTION 208) THE CONTRACTOR SHALL DESIGNATE A SWMP ADMINISTRATOR FOR CONSTRUCTION. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL BECOME THE OPERATOR FOR THE SWMP AND ASSUME RESPONSIBILITY FOR ALL DESIGN CHANGES TO THE SWMP IMPLEMENTATION AND MAINTENANCE IN ACCORDANCE TO 208.03. THE SWMP SHALL REMAIN THE PROPERTY OF CITY OF GRAND JUNCTION. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING, AND REVISING SWMP, INCLUDING THE TITLE AND CONTACT INFORMATION. THE ACTIVITIES AND RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL ADDRESS ALL ASPECTS OF THE PROJECT'S SWMP. (UPDATE THE INFORMATION BELOW FOR EACH NEW SWMP ADMINISTRATOR FOR CONSTRUCTION)

NAME/TITLE AND CONTACT INFORMATION (PHONE & EMAIL) WITH START DATE:

**4. DURING CONSTRUCTION**

THE SWMP SHOULD BE CONSIDERED A "LIVING DOCUMENT" THAT IS CONTINUOUSLY REVIEWED AND MODIFIED. DURING CONSTRUCTION, THE FOLLOWING ITEMS SHALL BE ADDED, UPDATED, OR AMENDED AS NEEDED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 208.

**A. MATERIALS HANDLING AND SPILL PREVENTION:**

PRIOR TO CONSTRUCTION COMMENCING THE CONTRACTOR SHALL SUBMIT A SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN, SEE SUBSECTION 208.06. MATERIALS HANDLING SHALL BE IN ACCORDANCE WITH SUBSECTION 208.06.

**B. STOCKPILE MANAGEMENT:**

SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.07

**C. CONCRETE WASHOUT:**

CONCRETE WASH OUT WATER OR WASTE FROM FIELD LABORATORIES AND PAVING EQUIPMENT SHALL BE CONTAINED IN ACCORDANCE WITH SUBSECTION 208.05.

**D. SAW CUTTING:**

SHALL BE DONE IN ACCORDANCE WITH SUBSECTIONS 208.04 AND 208.05

**E. STREET SWEEPING:**

SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 208.04

**5. CONTROL MEASURE MAINTENANCE**

MAINTENANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04 (F).

**6. INTERIM AND PERMANENT STABILIZATION**

THE CONTRACTOR SHALL COMPLY WITH ALL INTERIM STABILIZATION AND PERMANENT STABILIZATION REQUIREMENTS IN ACCORDANCE WITH SUBSECTION 208.04(E).

**7. PRIOR TO PROJECT FINAL ACCEPTANCE**

- REMOVAL AND DISPOSAL OF TEMPORARY CONTROL MEASURES SHALL BE INCLUDED IN THE COST OF WORK.
- REFER TO SPECIFICATION 208.10 FOR ITEMS TO BE COMPLETED PRIOR TO REQUESTING PARTIAL ACCEPTANCE OF WATER QUALITY WORK.

**8. NARRATIVES:**

**CONTROL MEASURE MATRIXES DURING CONSTRUCTION**

1. CONTROL MEASURE NARRATIVES HAVE BEEN INCLUDED FOR THE CDOT STANDARD SPECIFICATIONS AND STANDARD PLAN M-208 AND M-216 ALONG WITH ANY NON-STANDARD CONTROL MEASURES APPROVED DURING THE DESIGN PROCESS. IF A NON-STANDARD CONTROL MEASURE NOT INCLUDED IN THE SWMP IS PROPOSED AND APPROVED BY THE ENGINEER THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL DO THE FOLLOWING: PLACE AN "X" IN THE COLUMN FOR NON-STANDARD AND COMPLETE A NON-STANDARD CONTROL MEASURE SPECIFICATION AND NARRATIVE COVERING THE WHAT, WHEN, WHERE AND WHY THE CONTROL MEASURE IS BEING USED SHALL BE ADD TO THE SWMP. THE APPROPRIATE "X" SHALL ALSO BE ADDED TO THE IMPLEMENTATION PHASE(S).

2. THE SWMP ADMINISTRATOR FOR CONSTRUCTION SHALL PLACE AN "X" IN THE COLUMN IN USE ON SITE WHEN THE CONTROL MEASURE HAS BEEN INSTALLED.

A "B" IN THE INITIAL ACTIVITIES COLUMN INDICATES THAT THE CONTROL MEASURE SHALL BE INSTALLED BEFORE CONSTRUCTION ACTIVITY STARTS.



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REVISION A	REV 2	--	CHECKED BY	WC	DATE	2023
REVISION A	REV 3	--	APPROVED BY	WC	DATE	2023
REVISION A	REV 4	--				

NO SCALE



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**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
SWMP - 1 OF 4  
July 6, 2023

STRUCTURAL CONTROL MEASURES THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		<b>B or X</b>	<b>X</b>	<b>X</b>
STOCKPILE PROTECTION Temporary berm, erosion logs, aggregate bags*	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpile, increase control as stockpile increases size.	M-208			<b>X</b>	
TOE OF FILL PROTECTION Erosion logs, temporary berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208		<b>X</b>	<b>X</b>	
PERIMETER CONTROL Erosion logs, silt fence, temporary berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208		<b>B or X</b>	<b>X</b>	
SLOPE CONTROL Silt fence, erosion logs	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.	M-208		<b>X</b>	<b>X</b>	
CONCRETE WASHOUT Prefabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities. The contractor shall provide a concrete washout conforming with the requirements for a Type II prefabricated concrete washout as described in Section 208 of the 2022 CDOT Standard Specifications for Road and Bridge Construction.	X		<b>X</b>	<b>X</b>	
VEHICLE TRACKING PAD Prefabricated	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances. The contractor shall provide prefabricated vehicle tracking pads conforming with the requirements for a modular system as described in Section 208 of the 2022 CDOT Standard Specifications for Road and Bridge Construction, including Table 208-10.	X		<b>B or X</b>	<b>X</b>	
OTHER						



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ST-22 CRAWFORD-ROCKAWAY ALLEY  
SWMP - 2 OF 4  
July 6, 2023

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NON-STRUCTURAL CONTROL MEASURES THAT MAY BE POTENTIALLY USED ON THE PROJECT FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208		X	X	
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.				X	
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.			X	X	X
OTHER						

**9. BIOLOGICAL IMPACTS AND DEWATERING**

**A. ENVIRONMENTAL IMPACTS:**

WETLAND IMPACTS: NO

STREAM IMPACTS: NO

THREATENED AND ENDANGERED SPECIES: NO SPECIES ARE ANTICIPATED TO BE IMPACTED BY THE PROJECT.

**B. DEWATERING:**

DEWATERING: REFER TO SUBSECTION 103.13.

IF GROUNDWATER DOES NOT MEET WATER QUALITY STANDARDS FOR RECEIVING WATER A SEPARATE CDPS DEWATERING PERMIT SHALL BE OBTAINED BY THE CONTRACTOR FROM CDPHE.



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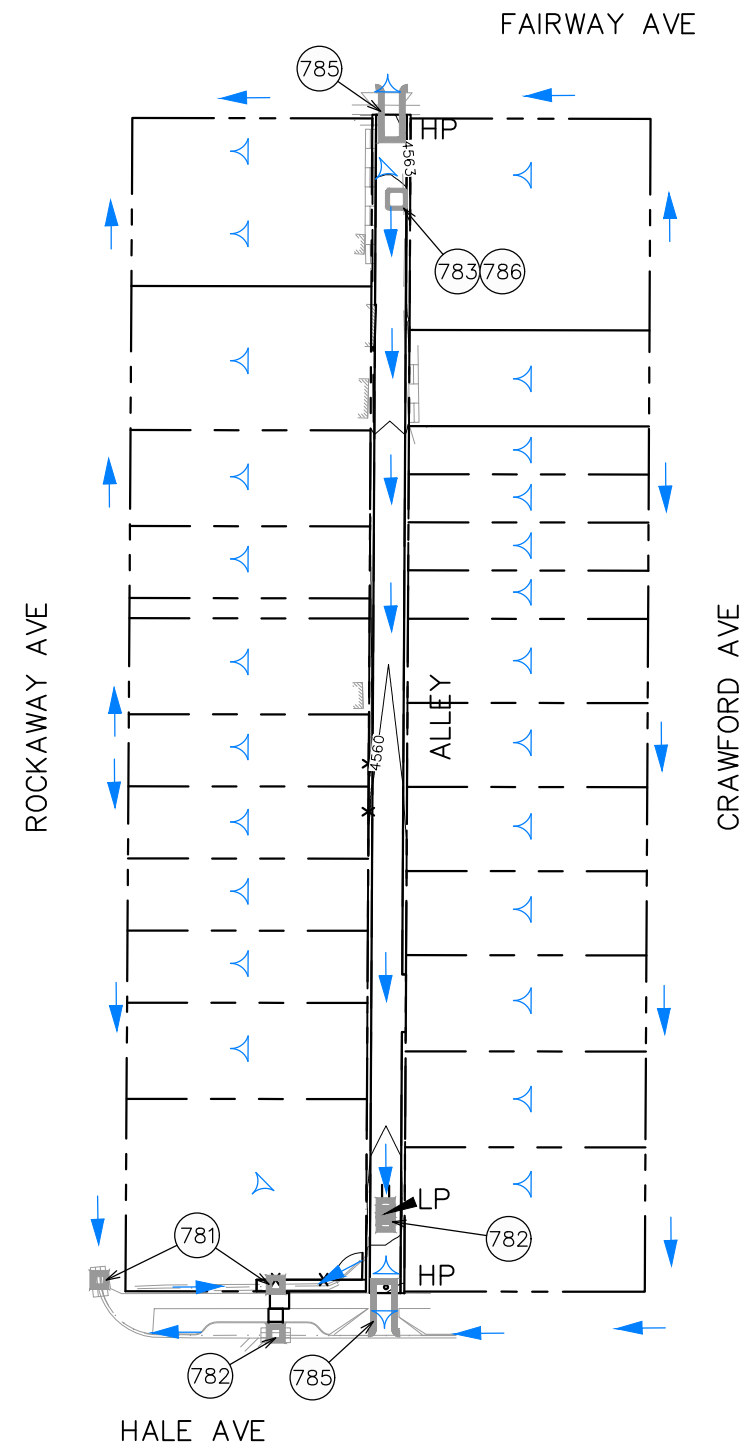
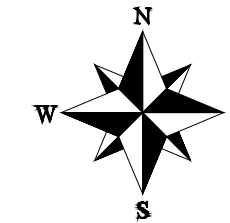


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ST-22 CRAWFORD-ROCKAWAY ALLEY  
SWMP - 3 OF 4  
July 6, 2023

**DRAWING NOTES**

- (781) STORM DRAIN INLET PROTECTION (TYPE II) OPTION A, PER STANDARD PLAN SHEET M-208-1 AT EXISTING AND PROPOSED CURB INLETS.
- (782) STORM DRAIN INLET PROTECTION (TYPE III) OPTION A, PER STANDARD PLAN SHEET M-208-1 AT EXISTING AND PROPOSED AREA INLETS.
- (783) PREFABRICATED CONCRETE WASHOUT STRUCTURE (TYPE II - LOCATE A MINIMUM OF 50 FEET AWAY FROM STATE WATERS). INCLUDED IN EROSION CONTROL.
- (785) PREFABRICATED VEHICLE TRACKING PAD AT EACH END OF ALLEY. INCLUDED IN EROSION CONTROL.
- (786) SANITARY FACILITY.



**LEGEND**

- SHEET FLOW
- CONCENTRATED FLOW
- INLET PROTECTION
- TRACKING PAD
- CONCRETE WASHOUT
- HP HIGH POINT
- LP LOW POINT



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REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALE
REVISION $\Delta$ REV 1		--	WC	2023	0 25 50 100
REVISION $\Delta$ REV 2		--	WC	2023	
REVISION $\Delta$ REV 3		--	WC	2023	
REVISION $\Delta$ REV 4		--	WC	2023	



**PUBLIC WORKS  
ENGINEERING DIVISION**  
PROJECT NO. F000209

**ST-22 CRAWFORD-ROCKAWAY ALLEY**  
SWMP - 4 OF 4  
July 6, 2023