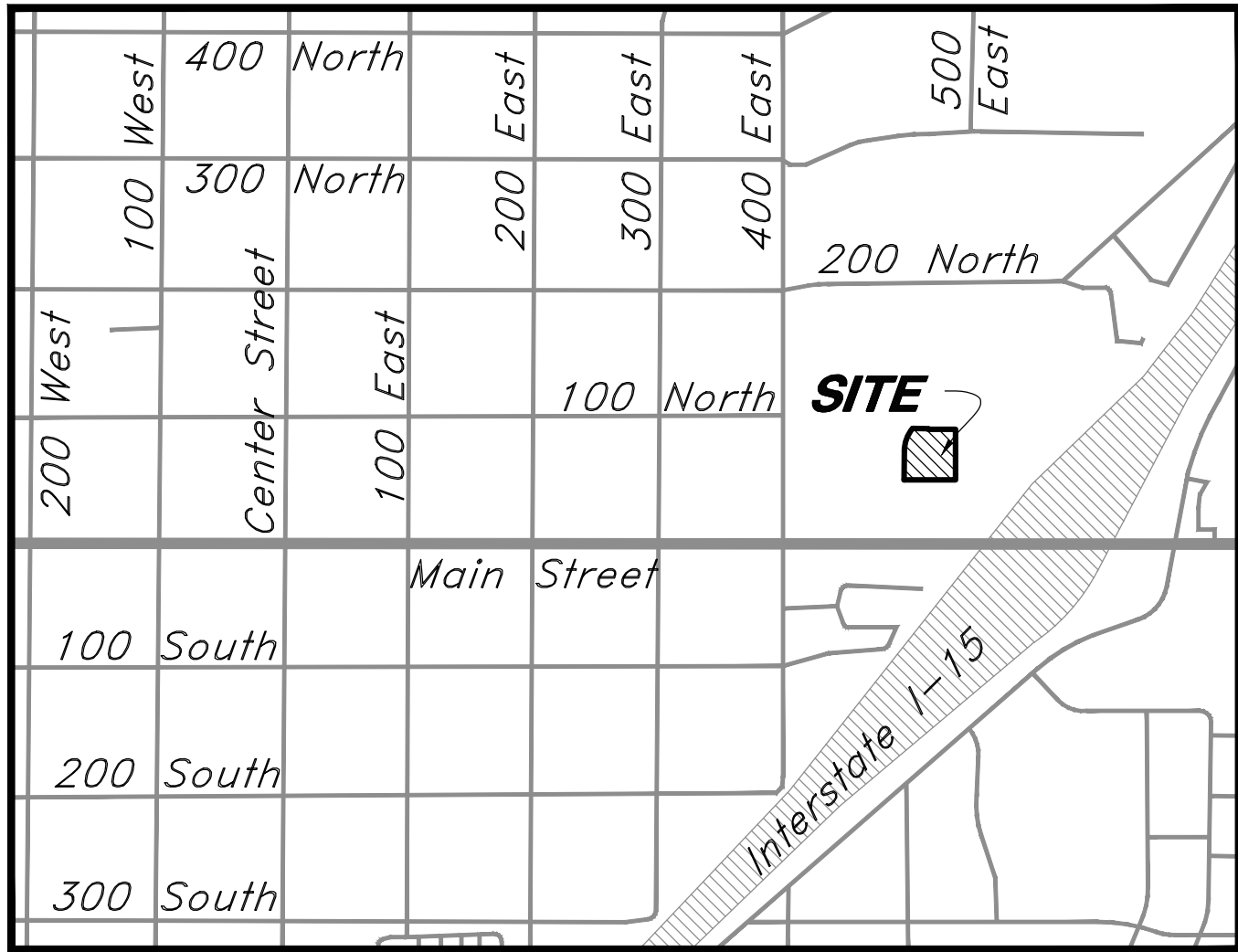


Tagg-N-Go

78 North 500 East

Santaquin, Utah



Vicinity Map
Not to Scale

Civil Sheet Index

- C0.0 Cover Sheet
- C0.1 Subdivision Plat
- C1.1 Demolition Plan
- C1.1 Site Plan
- C2.1 Grading Plan
- C3.1 Utility Plan
- C4.1 Details
- C4.2 Details
- C5.1 Erosion Control Plan
- L1.1 Landscape Plan
- L2.1 Irrigation Plan
- L3.1 Landscape & Irrigation Details

Basis of Bearings

A line between monuments found for North Quarter Corner and the Northeast Corner of Section 11 was assigned the UCS bearing of North 89°42'20" East as the Basis of Bearings.

Legal Description

Lot 8 of the Ridley's Subdivision, Plat B

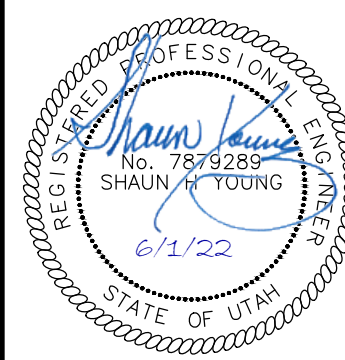
Santaquin City Notes

The Developer and the General Contractor understand that it is his/her responsibility to ensure that all improvements installed within this development are constructed in full compliance with all State and Santaquin City Codes, Ordinances and Standards. These plans are not all inclusive of all minimum Codes, Ordinances and Standards. This fact does not relieve the Developer or General Contractor from the full compliance with all minimum State and Santaquin City Codes, Ordinances and Standards.

Santaquin City Note to Developers & General Contractors
All recommendations made in the provided geotechnical report/study shall be followed explicitly during construction of building and site improvements.

Cover Sheet

Tagg-N-Go
78 North 500 East
Santaquin, Utah



1 Jun, 2022

SHEET NO.

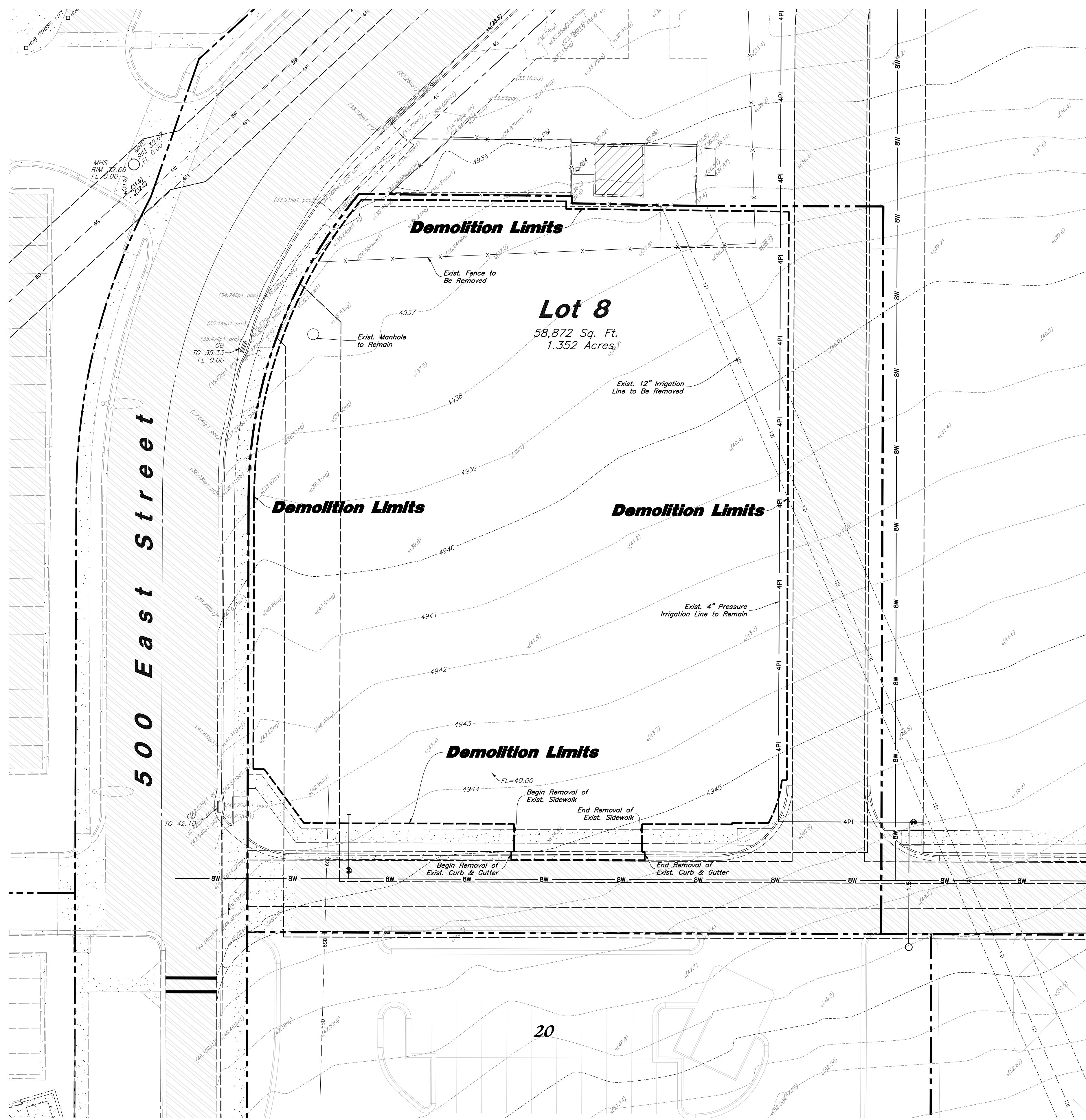
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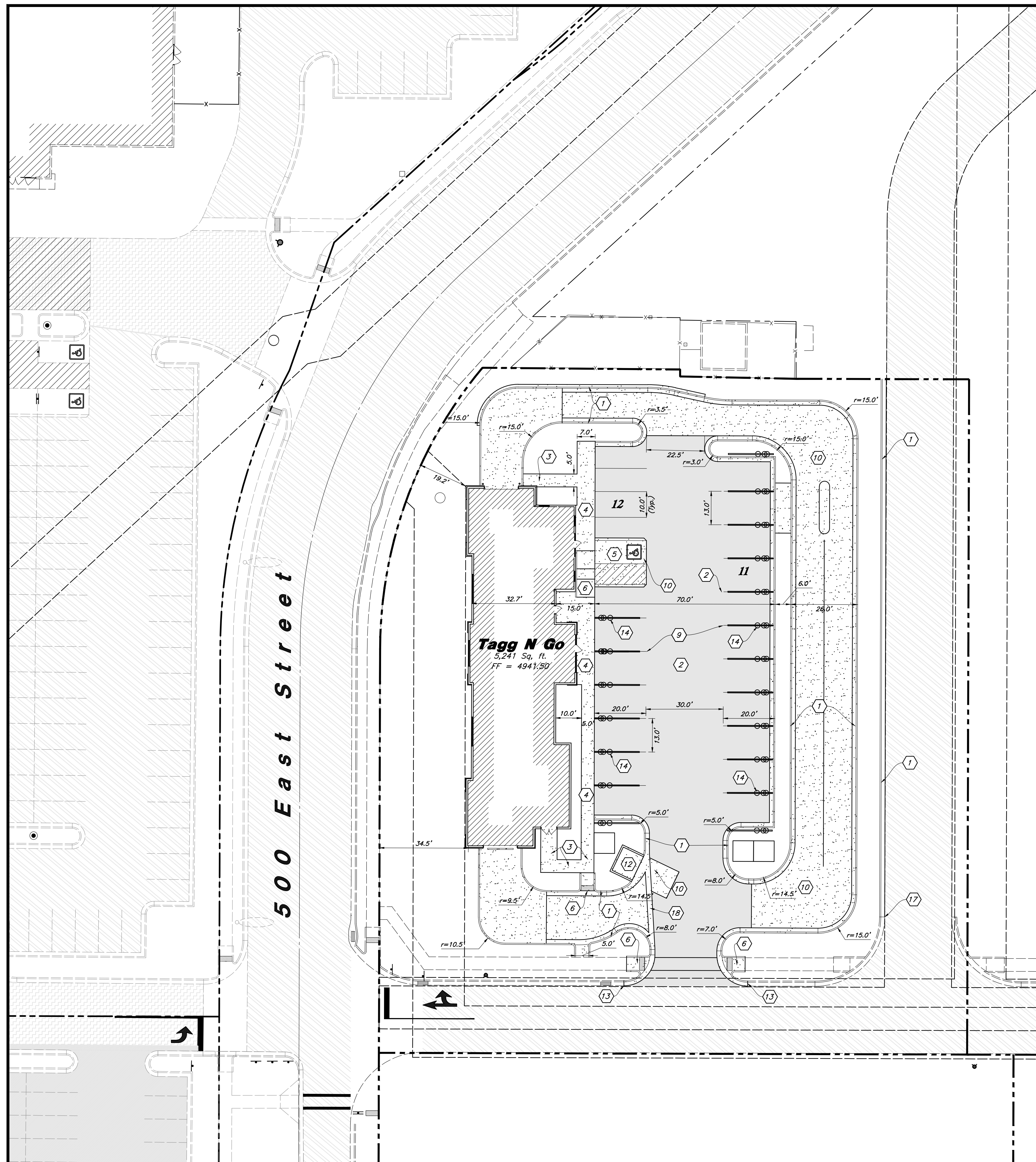
Abbreviations

BCR	Begin Curb Return	PT	Point of Tangency
BOL	Ballard	PVC	Polyvinyl Chloride
BRW	Finish Grade - Bottom of Retaining Wall	PVI	Point of Vertical Intersection
CATV	Cable Television Box	RCP	Reinforced Concrete Pipe
CB	Catch Basin	RD	Roof Drain
CMP	Corrugated Metal Pipe	SB	Signal Box
COB	Cleanout Box	SD	Storm Drain
COTG	Cleanout to Grade	SDMH	Storm Drain Manhole
EA	Edge of Asphalt	SMH	Sewer Manhole
EB	Electrical Box	SP	Signal Pole
EC	End of Curve	SS	Sanitary Sewer
ECR	End Curb Return	SVZ	Sight Visibility Zone
GB	Grade Break	SW	Secondary Water
GM	Gas Meter	TA	Top of Asphalt
HB	Hose Bib	TB	Telephone Box
HP	High Point	TBC	Top Back of Curb
I	Irrigation Line	TG	Top of Grate
ICB	Irrigation Control Box	TMH	Telephone Manhole
Lip	Lip of Gutter	TP	Top of Concrete
LP	Light Pole	TRW	Finish Grade - Top of Retaining Wall
MH	Manhole	TW	Top of Walk
Mon	Monument	VC	Vertical Curve
PC	Point of Curvature	VPC	Vertical Point of Curve
PCC	Point of Compound Curvature	VPT	Vertical Point of Tangency
PI	Point of Intersection	WL	Waterline
PM	Power Meter	WP	Working Point
PP	Power Pole	WV	Water Valve

Legend

Proposed Curb & Gutter		Existing Improvements	
Proposed Open Face C & G		Existing Asphalt	
Proposed Asphalt		Existing Concrete	
Proposed Concrete		Existing Inlet Box	
Proposed Truncated Domes		Existing Catch Basin	
Proposed Inlet Box		Existing Manhole	
Proposed Catch Basin		Existing Fire Hydrant	
Proposed Manhole		Existing Water Valve	
Proposed Transformer		Existing Overhead Power Line	
Proposed Meter Box		Existing Water	
Proposed Water Meter		Existing Secondary Water	
Proposed Combo Box		Existing Sewer	
Proposed Fire Hydrant		Existing Storm Drain	
Proposed Water Valve		Existing Gas	
Proposed Water Line		Existing Power	
Proposed Sanitary Sewer		Existing Telephone	
Proposed Storm Drain		Existing Fence	
Proposed Conduit Line		Flowline	
Proposed Power Line		Centerline	
Proposed Gas Line		Existing Contour	
Proposed Fire Line		Existing Spot	
Proposed Secondary Water Line		Existing Light Pole	
Proposed Roof Drain		Existing Street Light	
Proposed Fence		Existing Building	
Ridge line		Existing Telephone Box	
Grade Break		Existing Power Meter	
Proposed Contour		Existing Electrical Box	
Direction of Drainage		Existing Electrical Cabinet	
Proposed Spot		Existing Gas Meter	
ADA Accessible Route		Existing Water Meter	
Property Line		Existing Irrig. Control Box	
Sawcut Line		Existing Ballard	
Proposed Light Pole		Existing Hose Bib	
Proposed Street Light		Working Point	
Proposed Building		Existing Deciduous Tree	
Existing Power Pole		Existing Coniferous Tree	
Existing Power Pole w/ Guy		Detail Number	
Existing Utility Marker		Sheet Number	
Existing Post			





Site Data

Site Area = 58,872 s.f. (1.35 ac.)

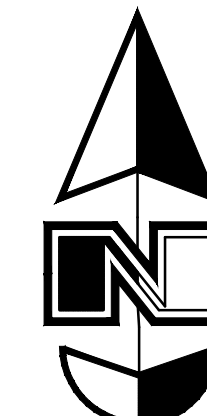
Landscape Area Provided = 12,626 s.f. (21%)

Impervious Area Provided = 26,623 s.f. (45%)

Building Area = 4,553 s.f (7%)

Parking Required = 1/x s.f. = x stalls











Parking Provided = 5 stalls (x/1,000)



Scale: 1" = 20'



Site Construction Notes

- 1 Const. 24" Curb & Gutter 
- 2 Const. Asphalt Paving 
- 3 Const. Concrete Sidewalk 
- 4 Const. Thickened Edge Sidewalk 
- 5 Const. Accessible Striping per MUTCD & ICC/ANSI A117.1 (Latest Edition)
(See Accessible Details and Notes) 
- 6 Const. Accessible Ramp per MUTCD/ANSI A117.1 (Latest Edition) (See Grading Detail Sheets) 
- 7 Const. Accessible Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition)
(See Accessible Details and Notes) 
- 8 Const. Accessible VAN Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition)
(See Accessible Details and Notes) 
- 9 Const. 4" White Paint Stripe (Typ.) Contractor shall provide 15 mils min. Dry Thickness (Two Coats) 
- 10 Const. Concrete Paving 
- 11 Sawcut; Provide Smooth Clean Edge
- 12 Dumpster Enclosure (See Arch. Plans)
- 13 Connect to Existing Improvements and Match Grade Elevations
- 14 Const. concrete support pier (See vacuum plans)

General Site Notes:

1. *All dimensions are to back of curb unless otherwise noted.*
2. *Fire lane markings and signs to be installed as directed by the Fire Marshal.*
3. *Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.*
4. *Const. curb transition at all points where curb abuts sidewalk, see detail.*
5. *Contractor shall place asphalt paving in the direction of vehicle travel where possible.*
6. *Limits of demolition/disturbed areas shown on the plans may not be an exact depiction. It is the contractor's responsibility to determine the means and methods of how the work will be completed. The contractor shall determine the area of construction impact. The contractor is responsible to restore all impacted areas and all restoration shall be part of the contract bid.*

Construction Survey Note:

The Construction Survey Layout for this project will be provided by Anderson Wahlen & Associates. The Layout Proposal and Professional Services Agreement will be provided to the General Contractor(s) for inclusion in base bids. The Survey Layout proposal has been broken out into Building Costs and Site Costs for use in the Site Work Bid Form.

Survey Control Note:

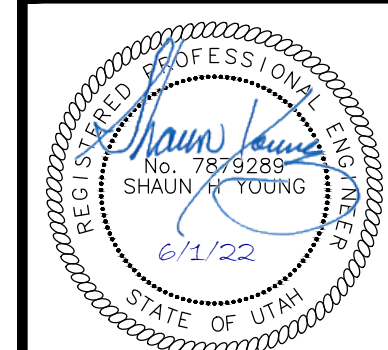
The contractor or surveyor shall be responsible for following the National Society of Professional Surveyors (NSPS) model standards for any surveying or construction layout to be completed using Anderson Wahlen and Associates ALTA Surveys and/or ALTA Plans. The contractor or surveyor shall verify the plans. Prior to proceeding with construction staking, the surveyor shall be responsible for verifying horizontal control and vertical control. The contractor or surveyor shall compare control points shown on an ALTA survey, improvement plan, or on an electronic data provided by Anderson Wahlen and Associates with control points shown on the ground. The contractor or surveyor shall examine the plan, and verify them against no less than three existing hard instrument elevations included on these plans and/or on the electronic data. If the contractor or surveyor or Associates. If any discrepancies are encountered, the surveyor shall immediately notify the engineer and resolve the discrepancies before proceeding with construction staking.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

Site Plan

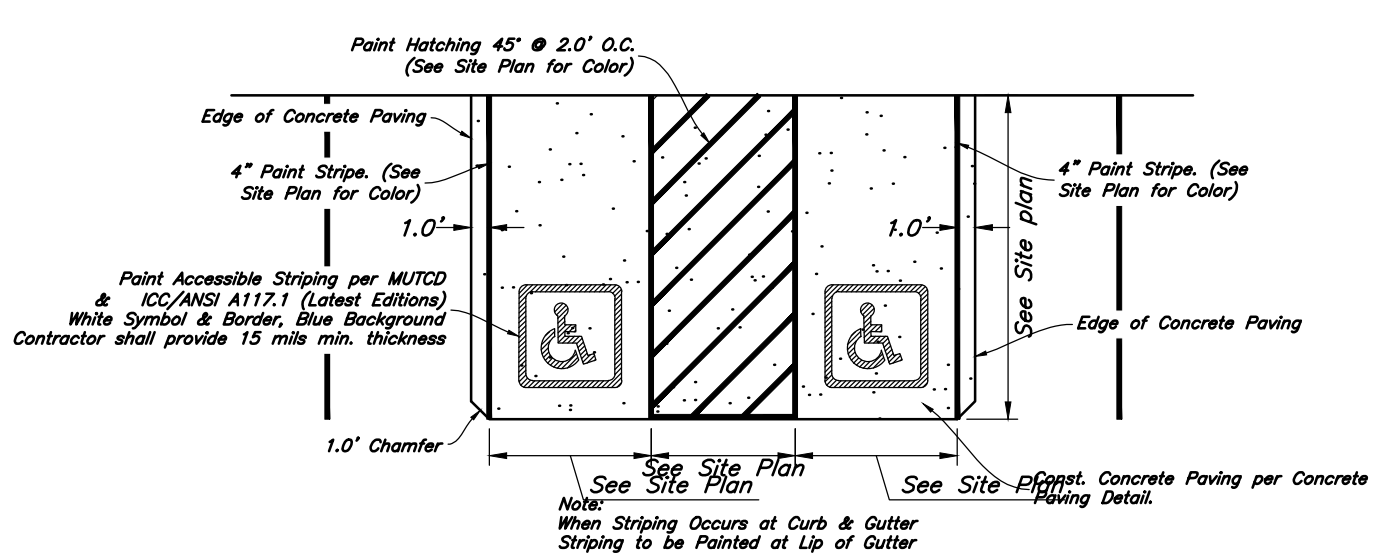
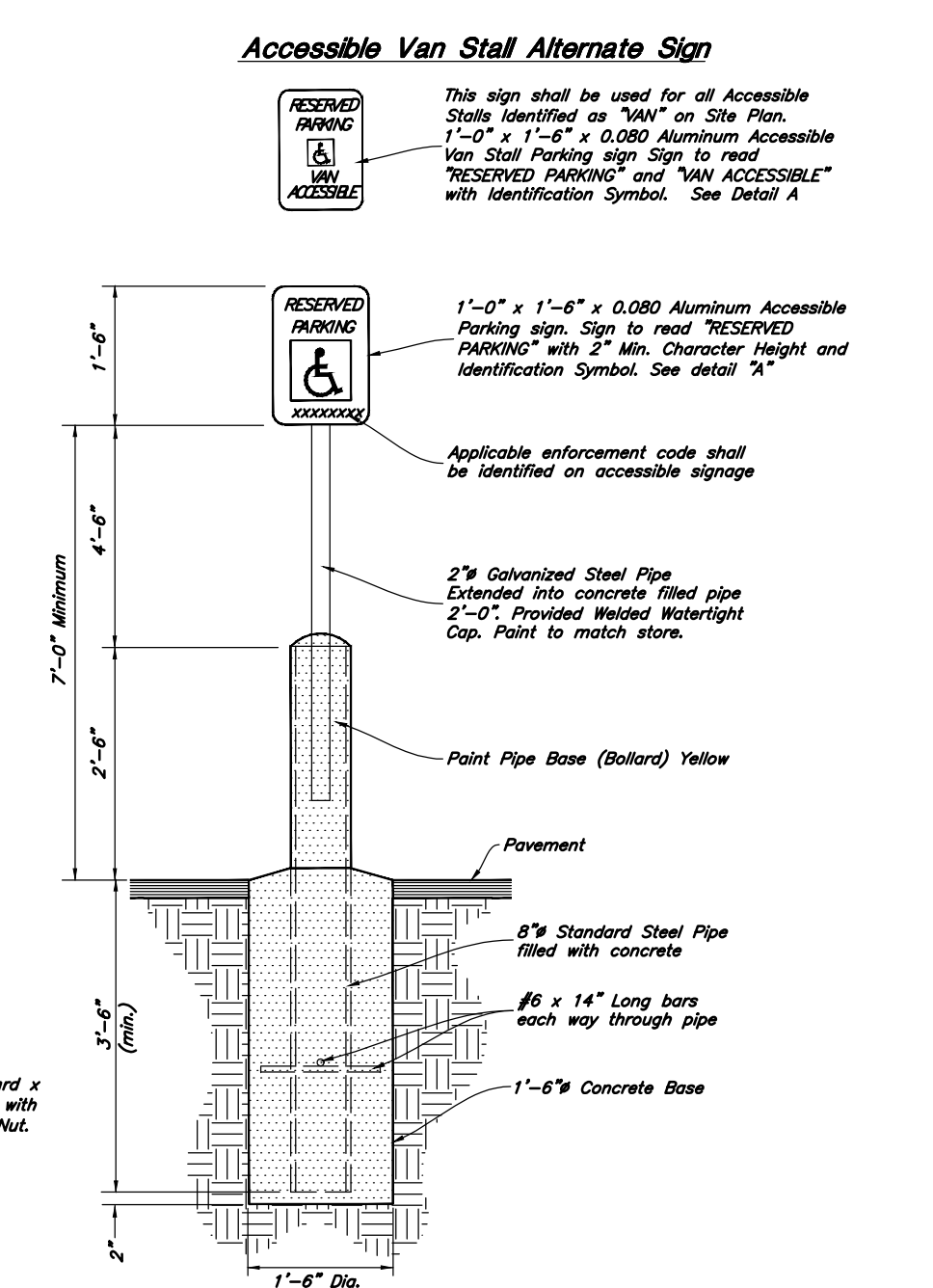
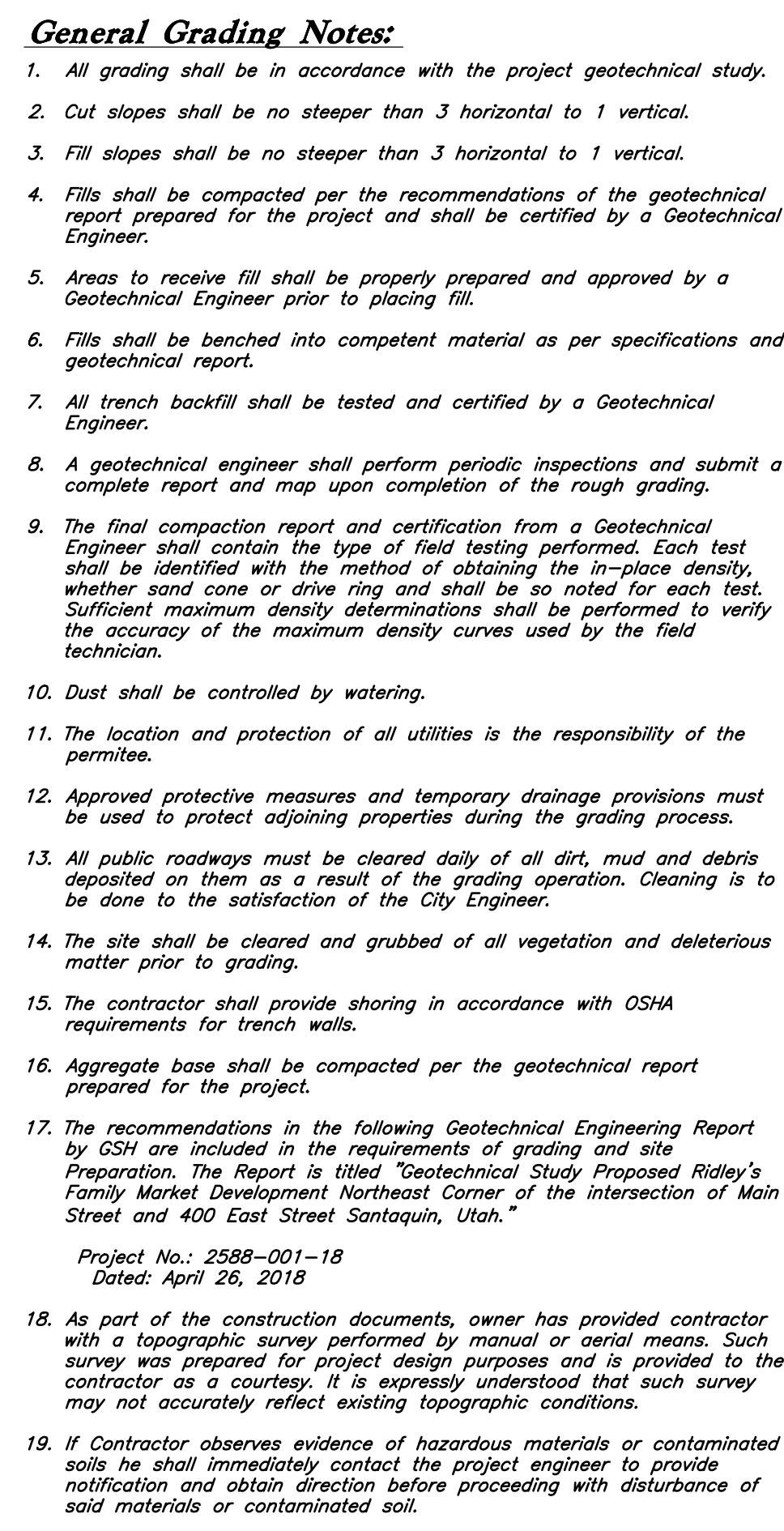
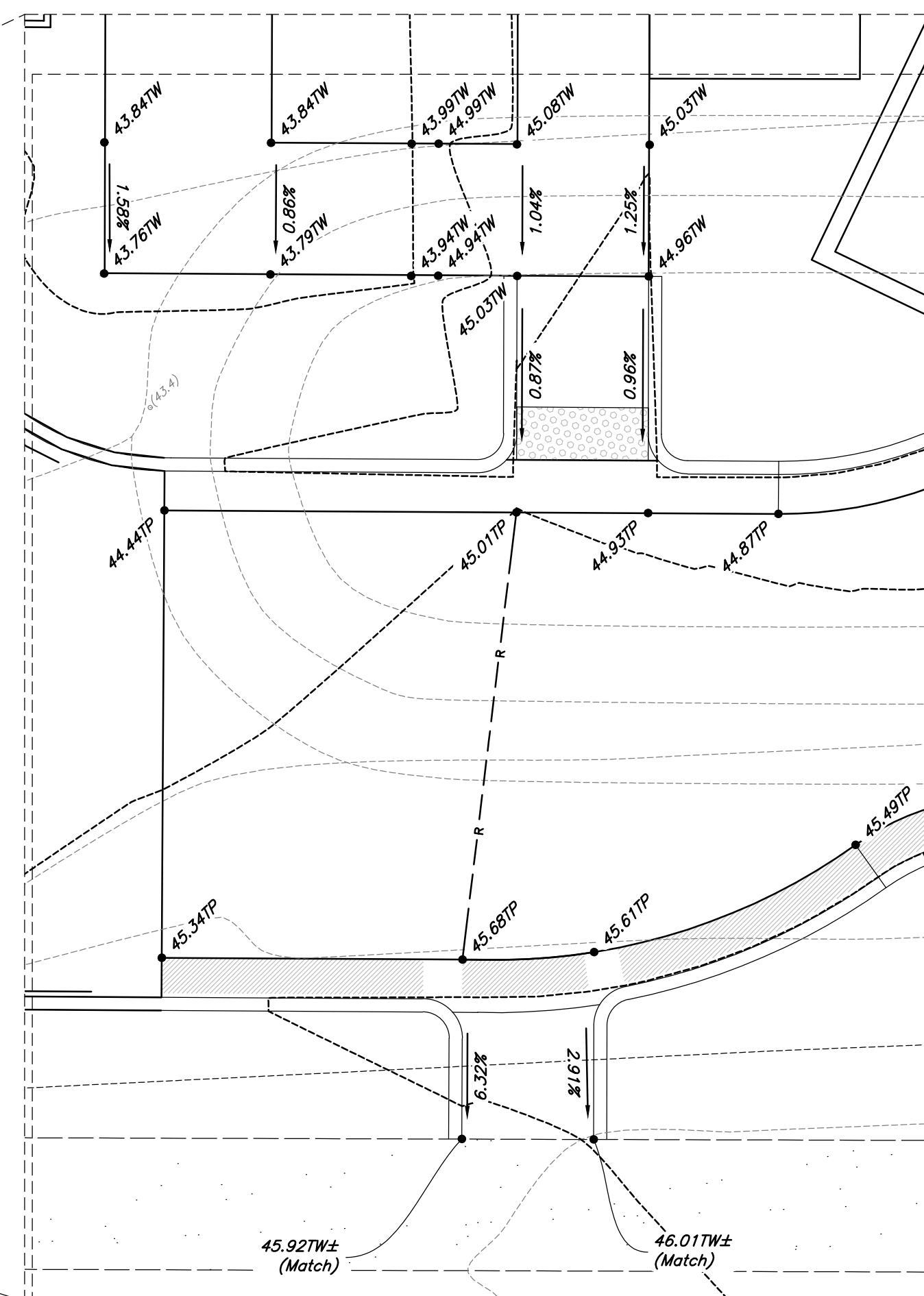
Tagg-N-Go
78 North 500 East
Santaquin, Utah



1 Jun, 2022

SHEET NO.

C1.1

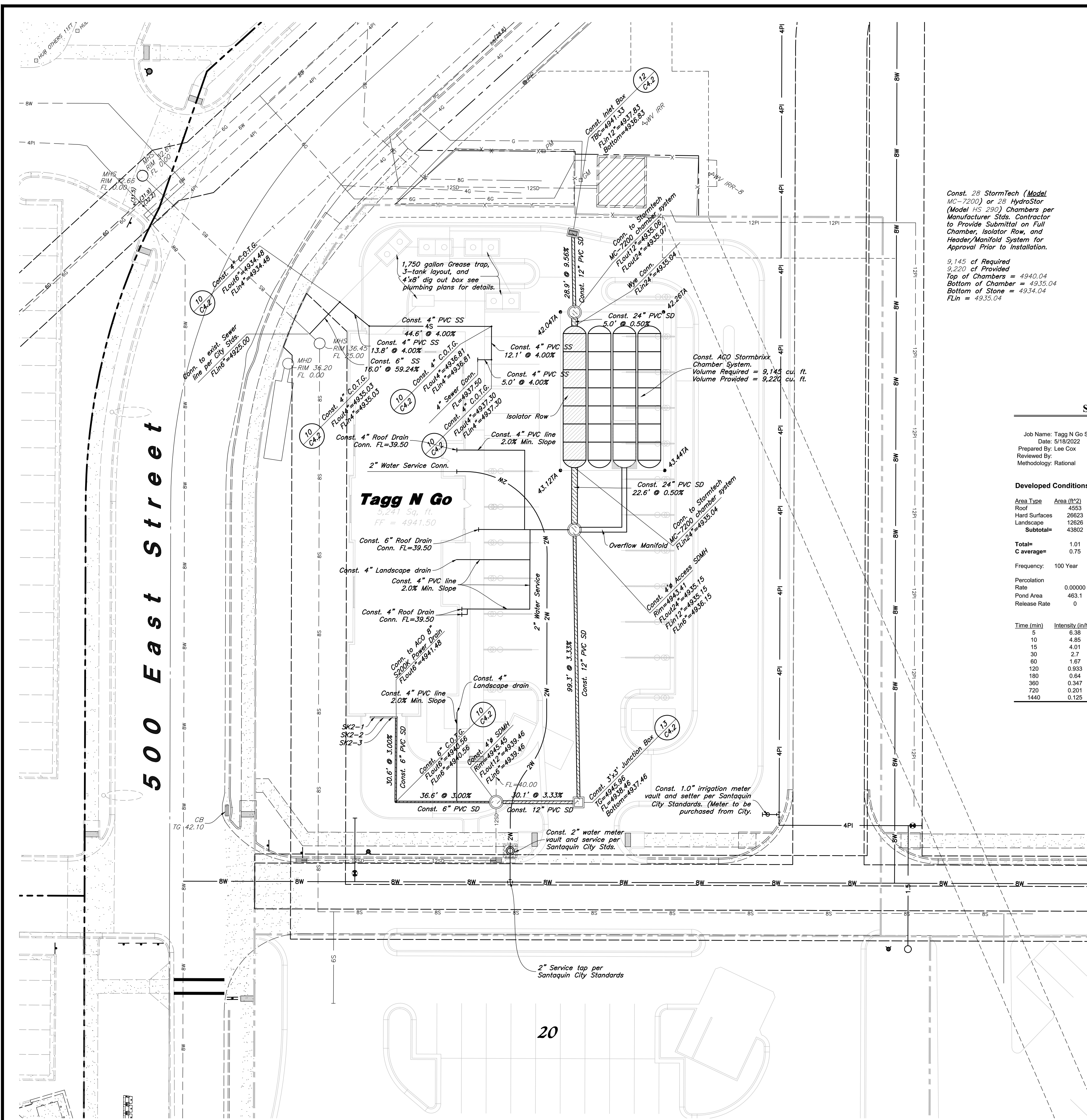


1. *Open face gutter shall be constructed where drainage is directed away from curb.*
1. *Open face gutter locations are indicated by shading and notes on the grading plan.*
1. *It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.*
4. *Refer to the typical details for standard and open face curb and gutter dimensions.*
2. *Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.*
6. *Spot elevations are shown on this plan with text marking. Coordinate and verify site information with project drawings.*

1. Concrete sidewalk shall be constructed with a cross slope of 1.5% unless shown otherwise on plan.
2. Running slope of sidewalks shall be built per grades shown on the plan. where grades are not provided, sidewalks shall be constructed with a maximum running slope of 4.5%
3. Refer to the Site Plan for sidewalk dimensions.

In Parking Lot Areas
Accessible Parking Sign w/ Bollard
Not to Scale

W:\22-046 Tagg N Go Santaquin\Draws\22-046.dwg, 6/1/2022 2:38:00 PM, 11, LC



Const. 28 StormTech (Model MC-7200) or 28 HydroStar (Model HS 290) Chambers per Manufacturer Stds. Contractor to Provide Submittal on Full Chamber, Isolator Row, and Header/Manifold System for Approval Prior to Installation.

9,145 cf Required
9,220 cf Provided
Top of Chambers = 4940.04
Bottom of Chamber = 4935.04
Flin = 4935.04

Storm Water Calculations

Job Name: Tagg N Go Santaquin
Date: 5/18/2022
Prepared By: Lee Cox
Reviewed By:
Methodology: Rational

Developed Conditions:

Area Type	Area (ft ²)	C
Roof	4563	0.85
Hard Surfaces	26623	0.9
Landscape	12636	0.1
Subtotal=	43802	

Total= 1.01 acres
C average= 0.75

Frequency: 100 Year

Percolation Rate 0.00000 ft/s
Pond Area 463.1 ft²
Release Rate 0 ft/s

Time (min)	Intensity (in/hr)	Acc. Vol (ft ³)	Rel. Vol (ft ³)	Req. Stor. (ft ³)
5	6.38	1443	0	1443
10	4.85	2195	0	2195
15	4.01	2722	0	2722
30	2.7	3665	0	3665
60	1.67	4534	0	4534
120	0.933	5066	0	5066
180	0.64	5213	0	5213
360	0.347	5653	0	5653
720	0.201	6549	0	6549
1440	0.125	6145	0	6145

General Utility Notes:

- All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.
- Coordinate all utility connections to building with plumbing plans and building contractor.
- Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
- All catch basin and inlet box grates are to be bicycle proof.
- Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
- Gas lines, telephone lines, and cable TV lines are not a part of these plans.
- Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
- Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible, at no cost to the owner, to construct any vertical adjustments necessary to clear sewer, storm drain, or other utilities as necessary including valve boxes and hydrant spools to proper grade.
- Contractor shall install a 12" concrete collar around all manholes, valves, catch basins, cleanouts & any other structures located within the asphalt.

Utility Piping Materials:

All piping materials shall be per local agency standards or the specifications below at a minimum. All utility piping shall be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Culinary Service Laterals

- Polyethylene (PE) Water Pipe (Up to 3 inches diameter), AWWA C901, PE 3408, SDR 9 (200 psi)
- Copper Pipe (Up to 3 inches diameter): Type "K."

Water Main Lines and Fire Lines

- Polyvinyl Chloride (PVC) (4 inches to 12 inches diameter): AWWA C900, Class 200

Sanitary Sewer Lines

- All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

Storm Drain Lines

- 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
- 15" pipes or larger - Reinforced Concrete Pipe, ASTM C76, Class III

CAUTION :

The locations and/or elevations of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

Storm Drain & Sanitary Sewer Note:

All Storm Drainage & Sanitary Sewer Pipe Lengths and Slopes are from Center of Structure to Center of Structure

Onsite Utility Connection Notes:

- Contractor shall field verify all utility connection elevations prior to any utility construction has begun.
- Contractor shall construct utility lines into site prior to any onsite utility construction. Gravity lines are to be constructed starting at the lowest point and be installed prior to any waterline installation
- Construction of any onsite utilities prior to the offsite connection will be done at the contractors risk.

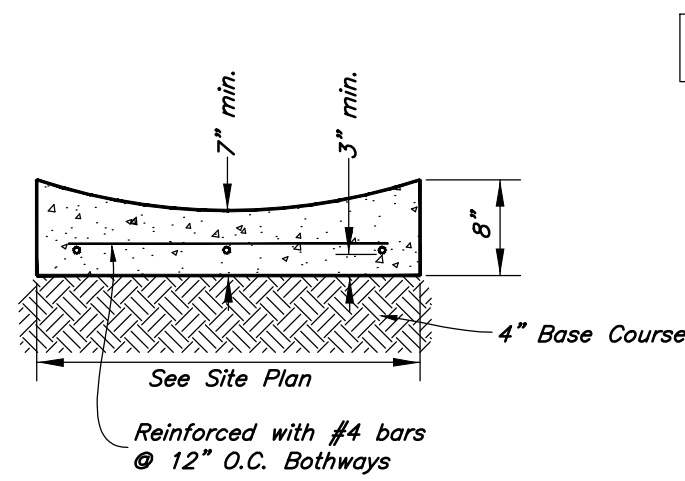
Know what's below. **Call 811** before you dig.
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UTILITY NOTIFICATION CENTER, INC.
www.bluestakes.org
1-800-662-4111

ANDERSON WAHLEN & ASSOCIATES
2010 North Redwood Road, Salt Lake City, Utah 84116
(801) 521-8529 - AWaengineering.net

Utility Plan
Tagg-N-Go
78 North 500 East
Santaquin, Utah

1 Jun, 2022
SHEET NO.
C3.1

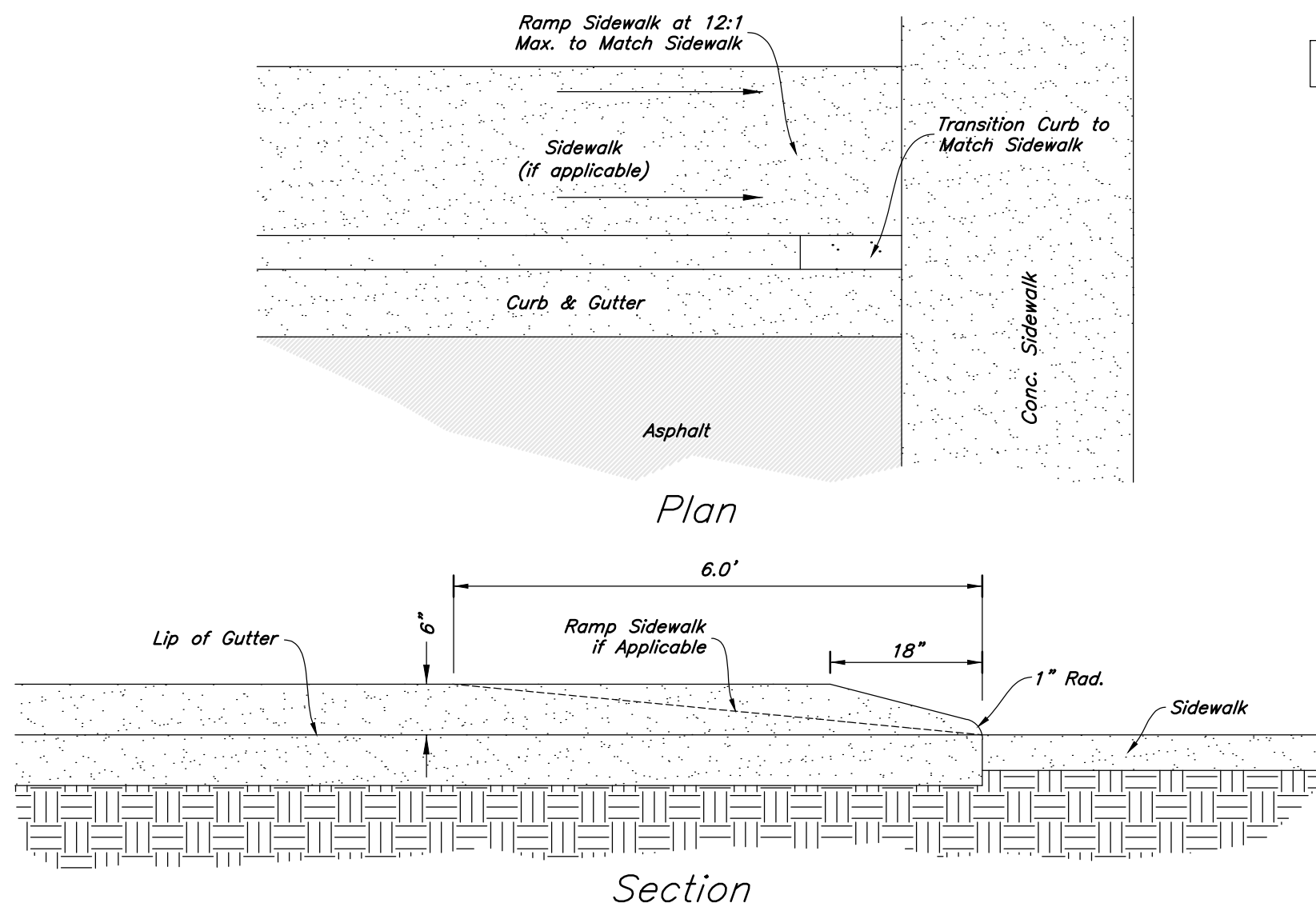
Contraction Joints
A. Spacing = 10' O.C.
B. 1/8" Wide by 2" Deep



1. See Concrete Joint Detail

8 Typical Waterway Detail

Not to Scale



6 Curb Transition

Not to Scale

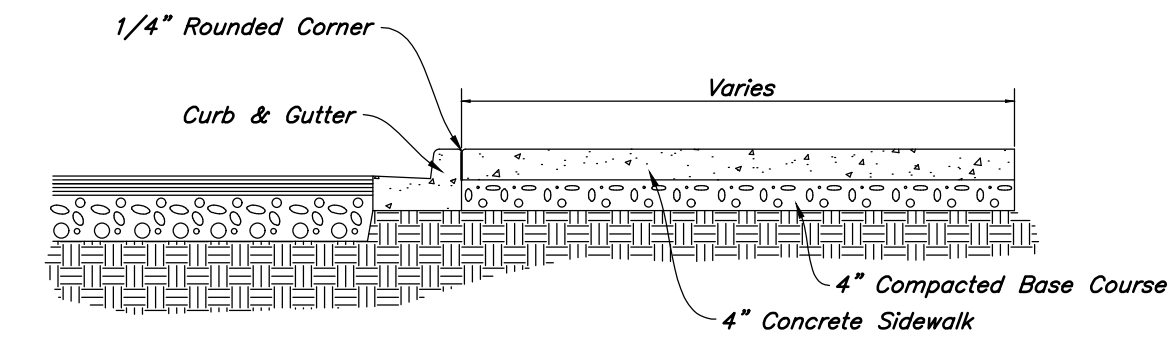
Contraction Joints

A. Spacing = 10' O.C.

Expansion Joints

A. Make expansion joints full depth, see joint detail
B. Place expansion joint at all cold joints
C. Expansion joints are required at the start of end of curb radius.

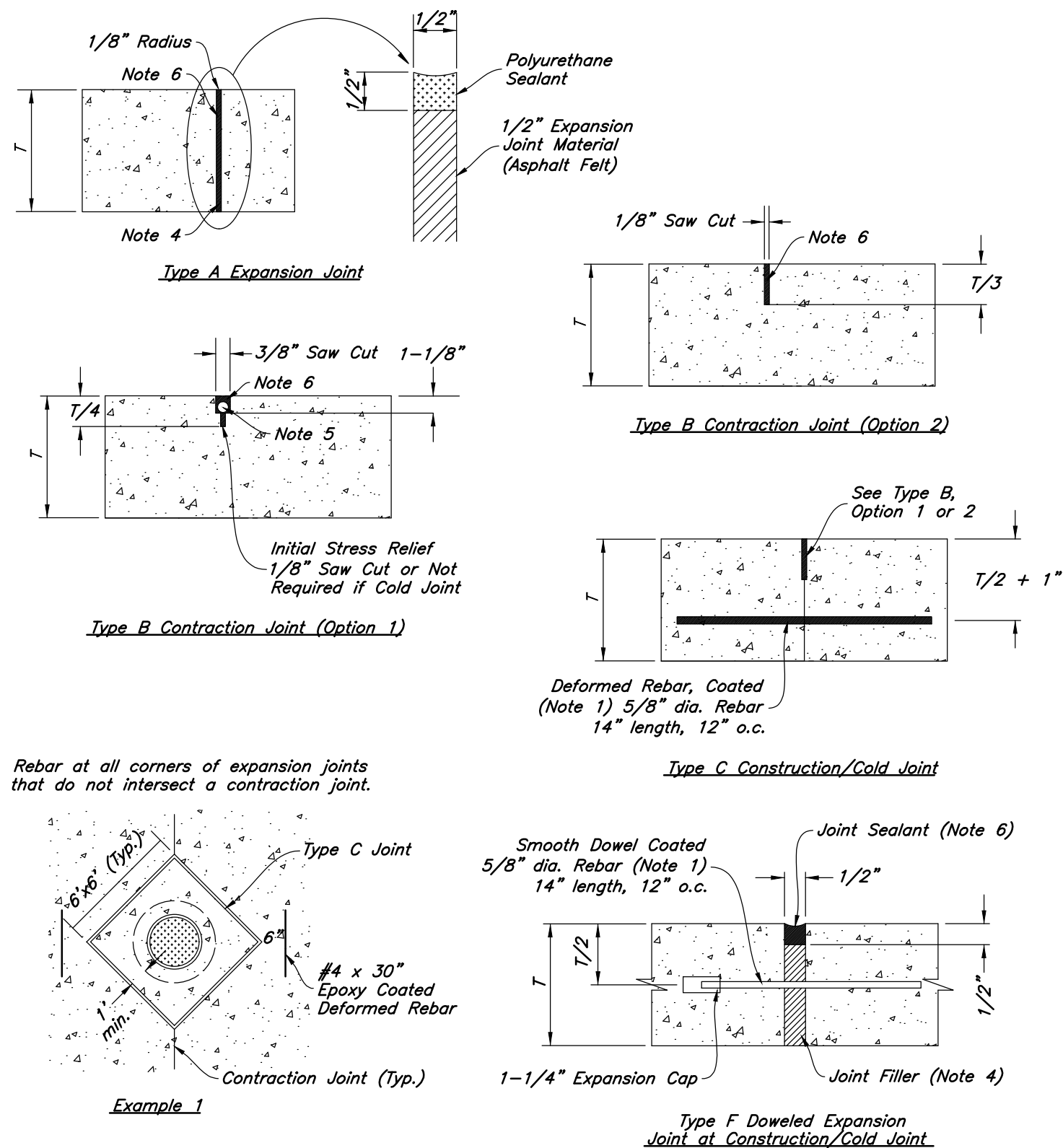
1. See Concrete Joint Detail



3 Typical Sidewalk Detail

Not to Scale

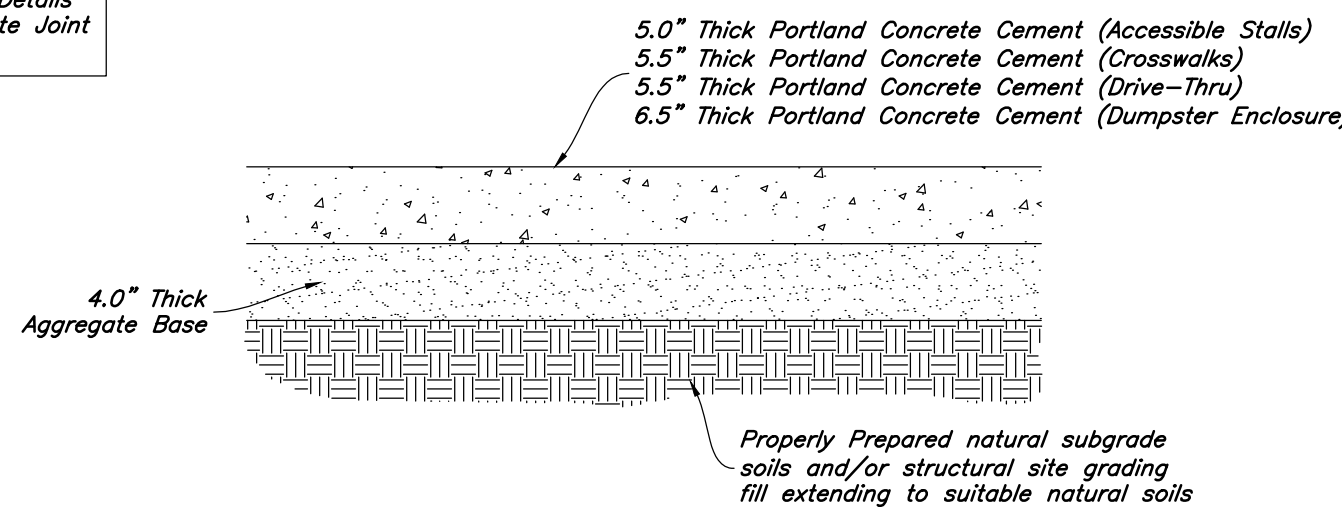
- REINFORCEMENT:** ASTM A 615, grade 60, galvanized or epoxy coated deformed steel rebar or smooth steel dowels with diameter and length as indicated.
 - Space rebar and dowels at 12 to 15 inches on center.
 - Grease dowels to provide movement in expansion joints.
 - Keep tie bars in the vertical center of the concrete slab and perpendicular to the joint during concrete placement.
- SAWING:** Keep at least 3 working power saws on-site when concrete is being placed. Saw crack control joints (contraction joints) before shrinkage cracking takes place. Do not tear or ravel concrete during sawing. In cool weather, the joint sawing may be delayed only for the time required to prevent tearing and raveling the concrete. Cut joints to dimensions recommend by sealant manufacturer and approved by ENGINEER.
- JOINTS:** Lay out joints to aid construction and control random cracking.
 - Joint Spacing shall be 12 feet maximum on center in both directions.
 - Extend transverse contraction joints continuously across the full width of the concrete. Make the joints coincide with curb and gutter joints.
 - Make adjustments in joint locations to meet inlet or manhole locations.
 - Expansion Joints shall be placed where concrete abuts a building wall, sidewalk, curb, gutter or any immovable structure.
- JOINT FILLER:** Bituminous (Asphalt or tar) mastic, ASTM D994. Formed and encased between 2 layers of bituminous saturated felt or 2 layers of glass-fiber felt extending to the bottom of the concrete slab.
- BACKER ROD:** Round Rods. It must be oversized approximately 25 percent to fit tightly into each joint and compatible with hot poured sealant.
- JOINT SEALANT:** Hot applied, Asphalt base type, ASTM D 3405. Remove dirt, oil, and curing compounds from joint reservoir. Seal joints immediately after cleaning.



7 Concrete Joint Detail

Not to Scale

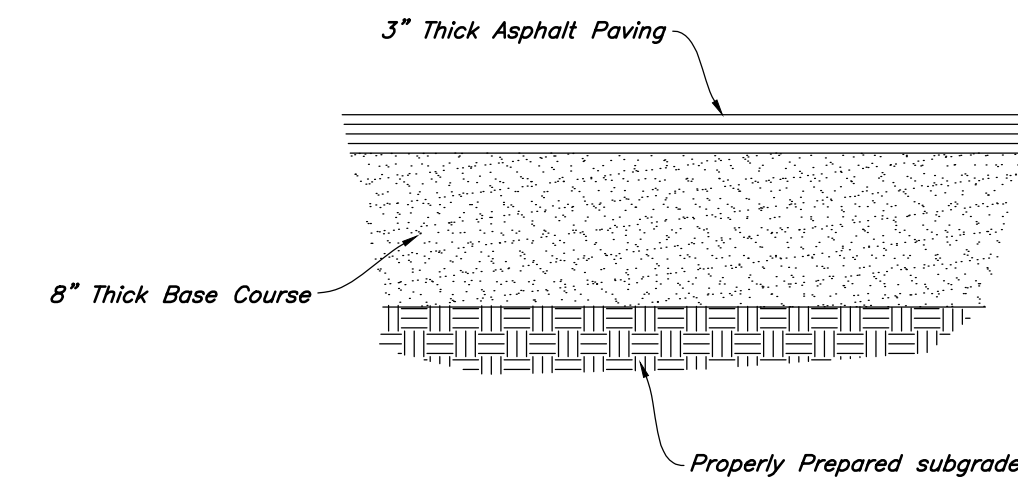
1. See Geotechnical Report for Project for Future Details
2. See Concrete Joint Detail



5 Concrete Paving Section

Not to Scale

1. See Geotechnical Report for Project



2 Standard Asphalt Section

Not to Scale

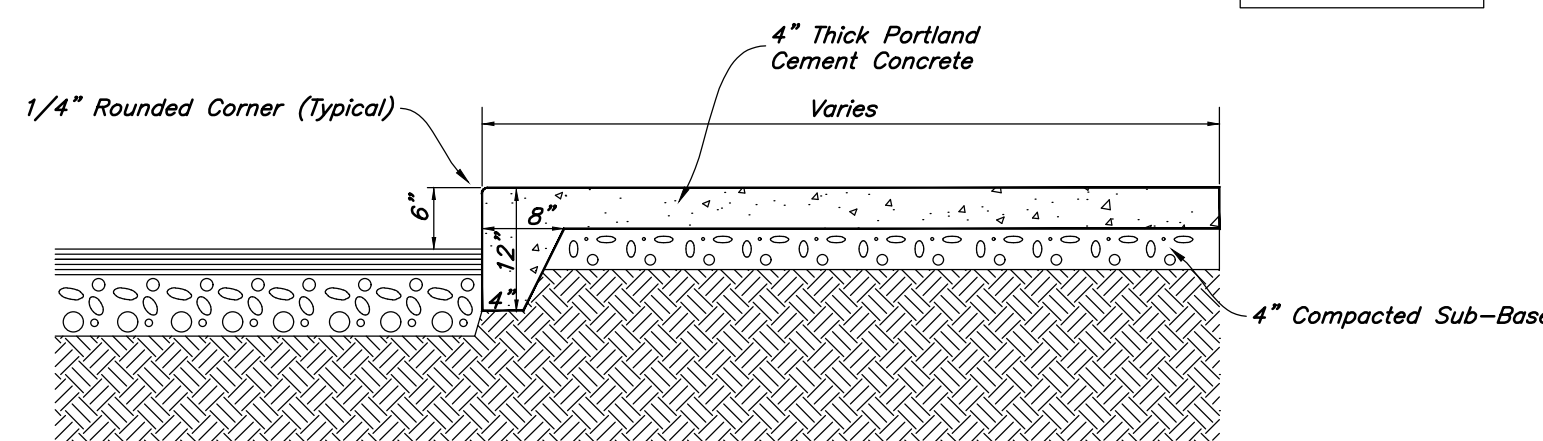
Contraction Joints

A. Spacing = 10' O.C.

Expansion Joints

A. Make expansion joints full depth, see joint detail
B. Place expansion joint at all cold joints
C. Expansion joints are required at the start of end of curb radius.

1. See Concrete Joint Detail

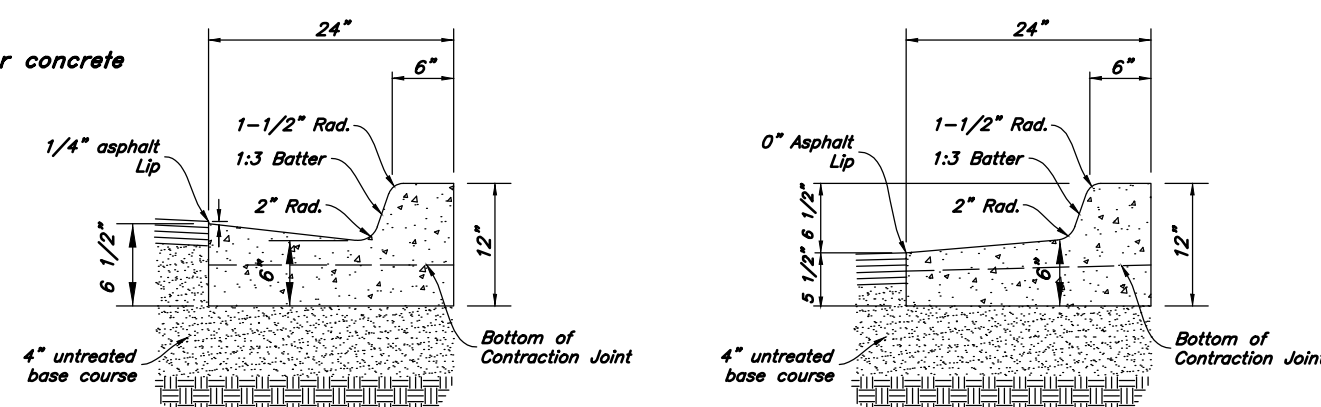


4 Thickened Edge Walk

Not to Scale

- Contraction Joints**
 - Spacing = 10' o.c., see joint detail
 - 1/8" wide by 2" deep from top of curb at 15'-0" intervals
- Expansion Joints**
 - Make expansion joints full depth, see joint detail
 - Place expansion joint at all cold joints
 - Expansion joints are required at ends of all radii 0.08.
 - Required 5'-0" on each side of drainage structures
 - Required at 90'-0" maximum intervals in straight curb and gutter
 - Provide #6 x 18" long smooth steel dowel bars with 1" dia. grease cap through expansion joints (3" thick bituminous filler material)

- 2'-6" Long tie bar on 2'-6" centers shall be provided when curb is adjacent to P.C.C. pavement
- Provide (2) #6 x 2'-6" long tie bars to connect existing and new curb and gutter
- Remove forms as early as possible. Brush top and face of curbs to remove all imperfections. Typical of all form work.
- All radii shall be true arcs
- Medium to light broom finish on all exterior concrete



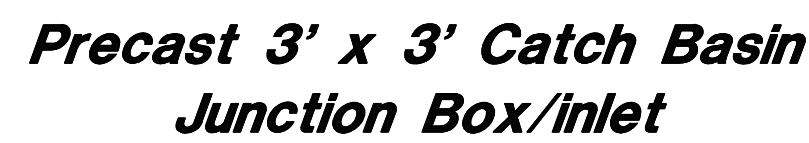
Standard

Note: All Curb and Gutter to be Standard Unless Otherwise Noted

Open Face

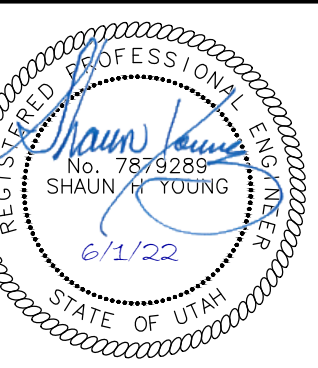
1 24" Curb And Gutter

Not to Scale



Details

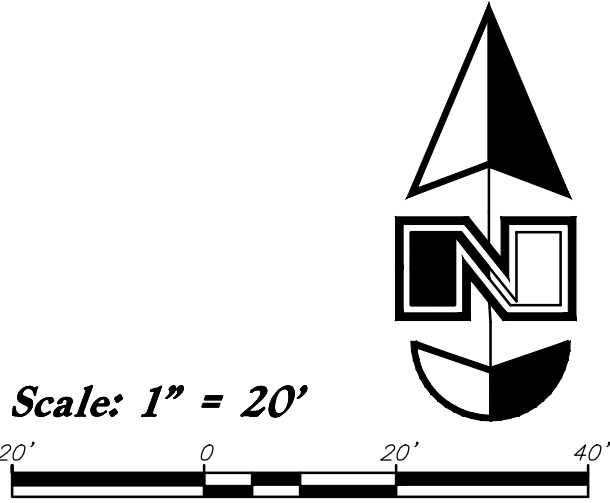
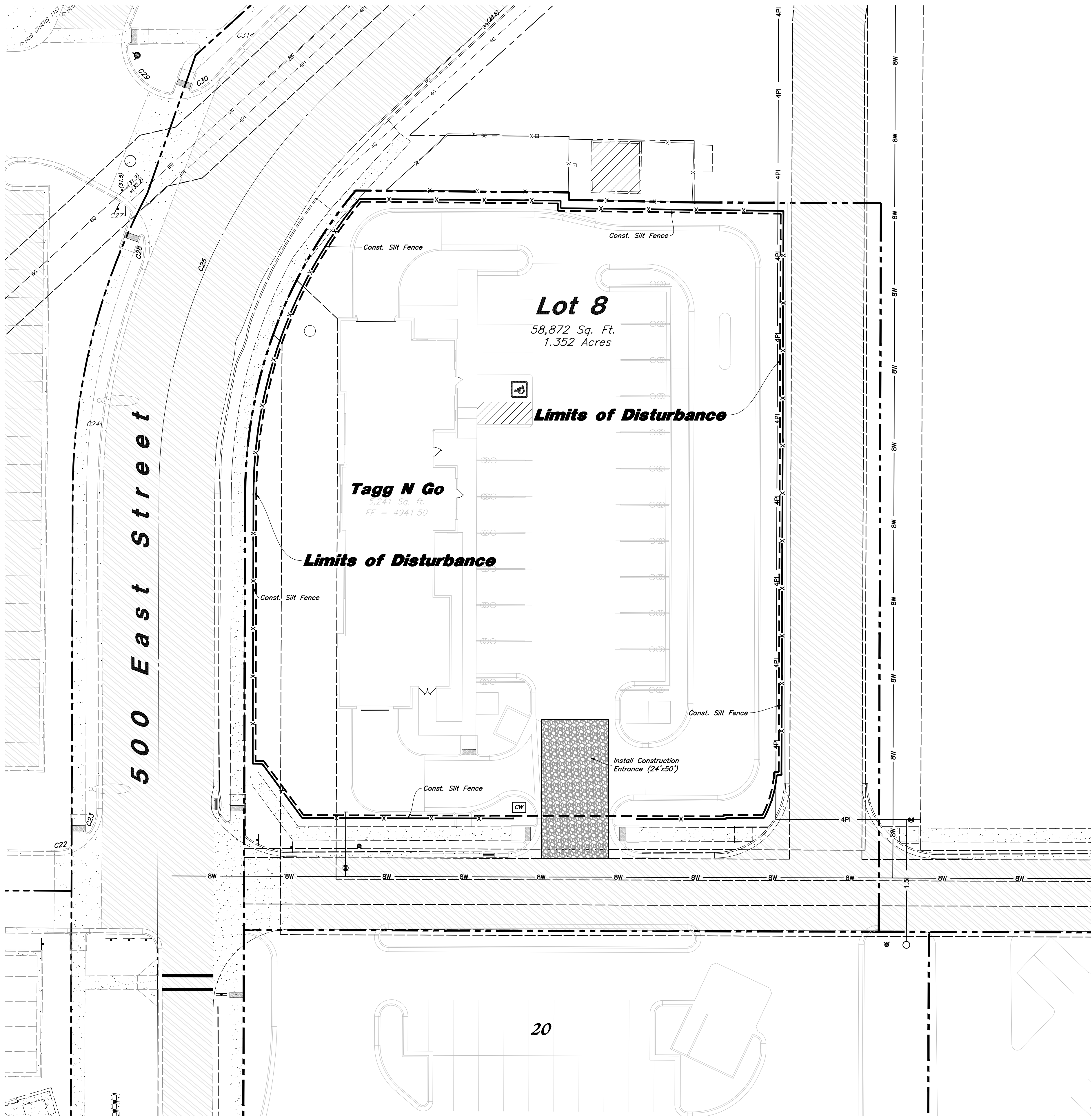
Tagg-N-Go
78 North 500 East
Santaquin, Utah



1 Jun, 2022

NET NO

C4.2



- Legend**
- Place Inlet Protection at all Inlet Locations to prevent boxes from silting.
- Silt Fence
- Limit of Disturbance
- Construction Entrance / Truck Wash (50'x24' Min.)
- Concrete Washout Area
- Portable Toilet
- Gravel Sock
- Existing Contour
- Existing Spot
- Proposed Contour

Limits of Disturbance = 39,702 s.f. (0.91 ac.)

Erosion Control Notes

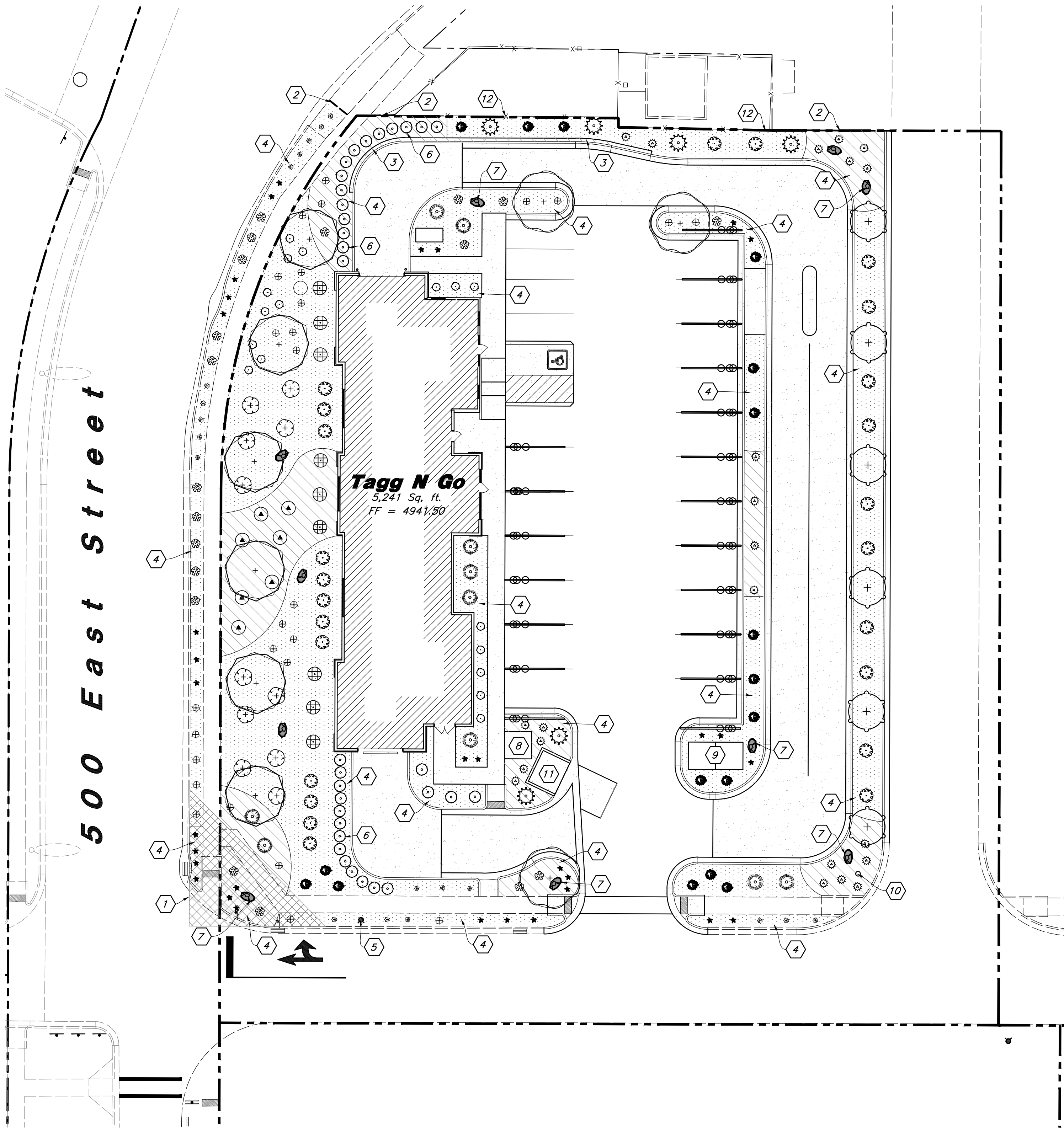
- Storm water will be discharged into an existing drainage system. Existing Lines shall be inspected prior to Certificate of Occupancy and cleaned if necessary.
- The Storm Water Prevention Plan shall conform to all State Division of Environmental Protection Regulations.
- All Construction equipment will enter thru Designated Construction Entrances.
- Coordinate Entrance locations with the local jurisdiction.
- Inlet Protection Devices and Barriers shall be Repaired or Replaced if they Show Signs of Undermining or Deterioration.
- Silt Fences shall be Repaired to their Original Conditions if Damaged. Sediment shall be Removed from Silt Fences when it Reaches one-half the Height of the Silt Fence.
- The Construction Entrances shall be Maintained in a Condition which will Prevent Tracking or Flow of Mud onto Public Right-of-Way. This may Require Periodic Top Dressing of the Construction Entrances as Conditions Demand.
- All Materials Spilled, Dropped, Washed or Tracked from Vehicles onto Roadways or into Storm Drains must be Removed Immediately.
- Due to the Grade Changes During the Development of the Project, the Contractor shall be Responsible for Adjusting the Erosion Control Measures (Silt Fences, Inlet Protection, Etc...) to Prevent Erosion.
- Contractor shall use Vehicle Tracking Control at all Locations where Vehicles will Enter or Exit the Site. Control Facilities will be Maintained while Construction is in Progress, Moved when Necessary and Removed when the Site is Paved.
- Inlet Protection Devices shall be Installed Immediately upon Individual Inlets becoming Functional.
- This Document is Fluid Allowing for Changes, Modifications, Updates and Alternatives. It is the Responsibility of the Contractor to Keep Record of all Alterations made to the Erosion Control Measures Implemented for the Project on this Plan and in the Storm Water Pollution Prevention Plan.
- Cover Exposed stockpiles of soils, construction and landscaping materials with heavy plastic sheeting.
- Re-vegetate areas where landscaping has died or not taken hold.
- Divert storm water runoff around disturbed soils with berms or dirt swales.
- Contractor to provide permanent stabilization to any areas disturbed by construction by hydroseeding native vegetation (if not otherwise stabilized).
- Contractor is responsible for obtaining a fugitive dust control permit through the Division of Air Quality. All responsibilities relating to the production of the dust control plan shall be the responsibility of the Contractor.

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Erosion Control Plan
Tagg-N-Go
78 North 500 East
Santaquin, Utah

REGISTERED PROFESSIONAL ENGINEER
No. 79528P
SHAUN A. YOUNG
6/1/22
STATE OF UTAH

1 Jun, 2022
SHEET NO.
C5.1



General Landscape Notes:

1. Plant material quantities are provided for bidding purposes only. It is the contractors responsibility to verify all quantities listed on the plans and the availability of all plant materials and their specified sizes prior to submitting a bid. The contractor must notify the Landscape Architect prior to submitting a bid if the contractor determines a quantity deficiency or availability problem with specified material. The contractor shall provide sufficient quantities of plants equal to the symbol count or to fill the area shown on the plan using the specified spacing. Plans take precedence over plant schedule quantities.
2. Contractor shall call Blue Stake before excavation for plant material.
3. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site apertenances, etc. which occurs as a result of the landscape construction.
4. The landscape contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions have been corrected.
5. The contractor shall provide all materials, labor and equipment required for the proper completion of all landscape work as specified and shown on the drawings.
6. See civil and architectural drawings for all structures, hardscape, grading, and drainage information.
7. Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.
8. All new plant material shall conform to the minimum guidelines established by the American Standard for Nursery Stock Published by the American Association of Nurseryman, Inc. In addition, all new plant material shall be of specimen quality.
9. The Owner/Landscape Architect has the right to reject any and all plant material not conforming to the plans and specifications.
10. Any proposed substitutions of plant species shall be made with plants of equivalent overall form, height, branching habit, flower, leaf, color, fruit and culture only as approved by the Landscape Architect.
11. It is the contractors responsibility to furnish all plant materials free of pests or plant diseases. It is the contractor's obligation to maintain and warranty all plant materials.

12. The contractor shall take all necessary scheduling and other precautions to avoid winter, climatic, wildlife, or other damage to plants. The contractor shall install the appropriate plants at the appropriate time to guarantee life of plants
13. The contractor shall install all landscape material per plan, notes and details.
14. Plant names are abbreviated on the drawings, see plant schedule for symbols, abbreviations, botanical, common names, sizes, estimated quantities and remarks.
15. No grading or soil placement shall be undertaken when soils are wet or frozen.
16. Imported topsoil shall be used for landscape areas. The landscape contractor shall perform a soil test on imported topsoil and amend per soil test recommendations. Soil test to be done by certified soil testing agency. Provide new imported topsoil from a local source. Imported topsoil must be a premium quality dark sandy loam, free of rocks, clods, roots, and plant matter.
17. Prior to placement of topsoil in all landscaping areas, all subgrade areas shall be loosened by scarifying the soil to a depth of 6 inches in order to create a transition layer between existing and new soils.
18. Provide an 8 inch depth in all other shrub areas.
19. All plant material holes shall be dug twice the diameter of the rootball and 6 inches deeper. Excavated material shall be removed from the site and replaced with plant backfill mixture. The top of the root balls, shall be planted flush with the finish grade.
20. Plant backfill mix shall be composed of 3 parts topsoil to 1 part soil pep, and shall be mixed at the planting hole. Deep water all plant material immediately after planting. Add backfill mixture to depressions as needed.
21. All new plants to be balled and burlapped or container grown, unless otherwise noted on plant schedule. Container grown trees shall have the container cut and removed. Trees in ball and burlap shall have the strings, burlap or plastic cut and pulled away from the trunk exposing 1/3 of the root ball. For trees in wire baskets, cut and remove the wire basket.
22. Upon completion of planting operations, all landscape areas with trees, shrubs, and perennials, shall receive specified stone over Dewitt Pro5 Weed Barrier. Stone shall be evenly spread on a carefully prepared grade free of weeds. The top of stone should be slightly below finish grade and concrete areas.

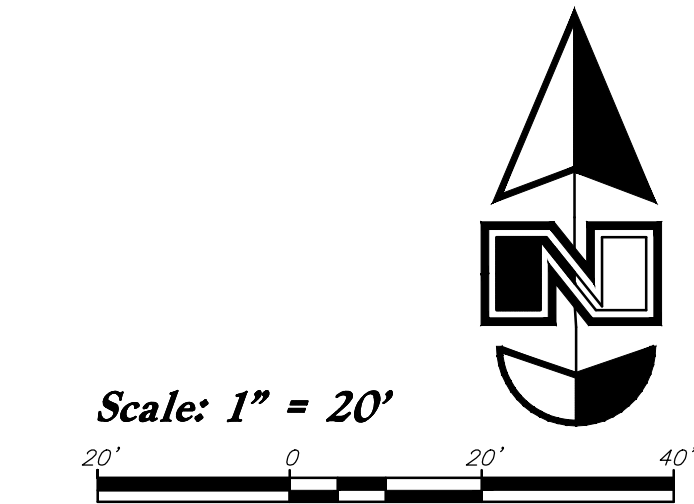
23. All deciduous trees shall be double staked per tree staking detail. It is the contractors responsibility to remove tree staking in a timely manner once staked trees have taken root. Deciduous tree ties to be V.I.T. Cinche Ties #CT32.
24. The contractor shall comply with all warranties and guarantees set forth by the Owner, and in no case shall that period be less than one year following the date of completion and final acceptance.

PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL / COMMON NAME	SIZE
	6	Koelreuteria paniculata / Golden Rain Tree	2" Caliper
	6	Quercus robur 'Skyrocket' / Skyrocket English Oak	2" Caliper
	3	Zelkova serrata 'Musashino' / Musashino Zelkova	2" Cal. / 6-8' Ht.
EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	SIZE
	6	Picea pungens glauca / Columnar Spruce	6' Min. Ht.
SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE
	7	Forsythia x 'Gold Tides' / Golden Tide Forsythia	5 gal
	11	Mirabilis multiflora / Desert Four O'Clock (Salt Tolerant)	5 gal
DECIDUOUS SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE
	17	Cornus sericea 'Kelsey' / Kelsey Dogwood	5 gal
	9	Euonymus alatus 'Compactus' / Compact Burning Bush	5 gal
	24	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	5 gal
	19	Rosa x 'Meigalpis' / Red Drift Rose	5 gal
	17	Spiraea x bumalda 'Goldflame' / Goldflame Spiraea	5 gal
EVERGREEN SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE
	32	Buxus x 'Green Mound' / Green Mound Boxwood	5 gal
	10	Juniperus horizontalis 'Bar Harbor' / Bar Harbor Creeping Juniper	5 gal
ORNAMENTAL GRASSES	QTY	BOTANICAL / COMMON NAME	SIZE
	22	Calamagrostis x a. 'Karl Foerster' / Feather Grass	1 gal
	27	Helictotrichon sempervirens 'Sapphire' / Blue Oat Grass	1 gal
PERENNIALS	QTY	BOTANICAL / COMMON NAME	SIZE
	32	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily	1 gal
	19	Nepeta x faassenii 'Dropmore' / Catmint	1 gal

MATERIAL SCHEDULE

Symbol	Comments	Detail
	Decorative Stone #1 - Install a (3) Three Inch Depth over Dewitt Pro5 Weed Barrier; Stone Shall be Used in Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 1 1/2" Diameter Crushed, Fractured Talon's Cove (Gray Color) Stone from Utah Landscape Rock (435-250-3851)	Detail: 4/L3.1
	Decorative Stone #2 - Install a (4) Four Inch Depth over Dewitt Pro5 Weed Barrier; Stone Shall be Used in Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 2" Diameter Crushed, Fractured Stone from Staker Parson Copper Canyon Pit (385-239-0804) - Same Source used at the Adjacent Grocery Store	Detail: 4/L3.1
	3/16" x 4" Steel Edging - Install Flush to all Concrete Edges Between New Shrub Planter and Undeveloped Area; Manufacturer Shall be Sure-Loc Inc.; Color Shall be Green	Detail: 4/L3.1
	Landscape Boulder - Boulders Shall be 3-4' in Diameter, Fractured, Earth Tone/Tan Rust Color and Shall Match Decorative Stone #2; All Boulders Shall be Washed Prior to Installation	Detail: 5/L3.1



Landscape Data

Site Area = 58,872 s.f. (1.35 ac.)
Landscape Area Required = 5,887 s.f. (10%)
Landscape Area Provided = 12,626 s.f. (21%)
Parking Area = 10,017 s.f.
Landscape Parking Required = 1,002 s.f. (10%)
Landscape Parking Provided = 1,072 s.f. (10.7%) +
500 East Street Frontage = 241 l.f. **
500 East Stree Trees Required = 6 Trees
500 East Stree Trees Provided = 6 Trees

* Parking Lot Landscape is Calculated Using the Parking Bumpouts at the End of the Parking Bays

** Street Frontage Calculation Doesn't Include Driveway Linear Footage

Landscape Notes:

1. All Landscape Material Shall be Fully Irrigated by an Automatic Irrigation System. Drip for Shrub Areas and Spray/Rotors for Lawn Areas. See Irrigation Sheets L2.1 for Layout and Sheet L3.1 for Details.
2. Adjust Landscape Material as Needed to Allow Access to all New and Existing Utilities. Irrigation Components Shall be Spaced Between Plant Material to Allow Easy Access for Maintenance.
3. All Areas Disturbed by Construction Shall be Landscaped and Not Left Undone. Blend New Landscape into Existing Corner Landscape.
4. No Edging Shall be Used Between Different Stone. Provide a Nice Clean Smooth Flowing Defined Line Between Stone.

Landscape Keynotes

- 1 Clear View Triangle - Low Growing Landscape Materials within the Clear View Area Shall be Kept Below 36" in Height. Trees are Allowed in the Clear View Area but Shall be Pruned so that Leafed Branches are Greater than 8' Above Nearest Asphalt Grade
- 2 Install Steel Edging Between Undeveloped and New Landscape
- 3 Retaining Wall - See Civil Grading Plan; Verify that Wall is Free of Soil and Washed Off
- 4 Install Shrub Planter with Decorative Stone and Weed Barrier - See Material for Size and Color
- 5 New Fire Hydrant - See Utility Plan
- 6 3' High Evergreen Planting Screen for Drive Thru
- 7 Install Landscape Boulder
- 8 Elect. Transformer with Plant Screening
- 9 Vacuum Equipment - See Arch. Plans
- 10 Secondary Water Irrigation Connection with Meter - See Utility Plan for Exact Location and Irrigation Plan for More Detail
- 11 Dumpster with Planting Screen
- 12 Existing Fence

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Landscape Plan
Tagg-N-Go
78 North 500 East
Santaquin, Utah

State of Utah
Jared R. Manscill
No. 7740426-5301
06/01/2022
Landscape Architect

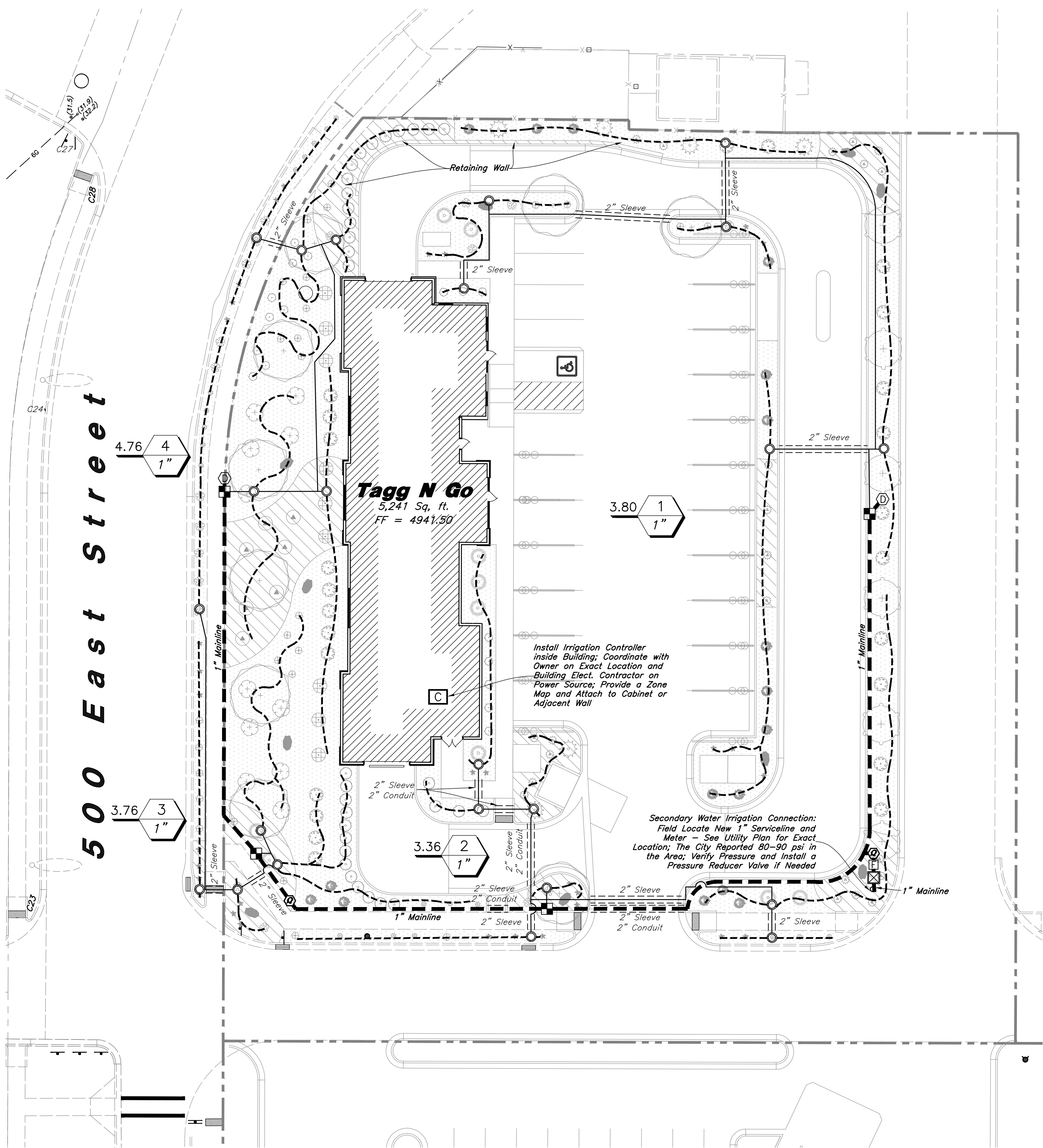
1 Jun, 2022

SHEET NO.

L1.1



Know what's below.
Call before you dig.



General Irrigation Notes:

1. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the landscape construction.

2. The irrigation contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions have been corrected.

3. The contractor shall provide all materials, labor and equipment required for the proper completion of all irrigation work as specified and shown on the drawings.

4. See civil and architectural drawings for all structures, hardscape, grading, and drainage information.

5. Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.

6. The Owner/Landscape Architect has the right to reject any and all irrigation material not conforming to the plans and specifications.

7. The contractor shall install all irrigation material per plan, notes and details.

8. Irrigation system components must be premium quality only and installed to Manufacturers requirements and specifications. The contractor is responsible for checking state and local laws for all specified materials and workmanship. Substitutions must be approved by landscape architect. Provide owner and maintenance personnel with instruction manual and all products data to operate, check, winterize, repair, and adjust system.

9. Irrigation system guarantee for all materials and workmanship shall be one year from the time of branch opening or final project acceptance (whichever is longer). Guarantee will include, but is not limited to winterizing, spring activation, repair, trench setting, backfilling depressions, and reporting freeze damage. Contractor must contact Landscape Architect to schedule pre and post guarantee inspection meetings. Failure to do so will mean the official guarantee period has not been activated or de-activated.

10. Irrigation system check must be done before the system is backfilled. Irrigation mainline and each control valve section must be flushed and pressure checked. Assure the complete system has no documented problems and full head to head coverage with adequate pressure for system operation. Adjust system to avoid spray on building, hardscape, and adjacent property. Any problems or plan discrepancies must be reported to the landscape architect.

11. Irrigation laterals must be schedule 40 P.V.C. with schedule 40 fittings. one (1) inch minimum size. Solvent weld all joints as per manufactures specifications for measured static p.s.i. Teflon tape all threaded fittings. The minimum depth of lateral lines shall be twelve (12) inches. Adapt system to manual compression air blowout.

12. Irrigation mainline that are 2" and smaller mainlines shall be schedule 40 PVC pipe with schedule 80 fittings. Solvent weld all joints as per manufactures specifications for measured static pressure. Use teflon tape on all threaded joints. Line depth must be Twenty-four (24) inches minimum.

13. Install dielectric fittings whenever dissimilar metals are joined.

14. Controller valves to be grouped together wherever possible. Install valve boxes with long side perpendicular to walk, curb, lawn, building or landscape features. Valve boxes to conform with finish grades.

15. Control valve wire shall be #14 single conductor white for common wire, #14 single conductor red for the hot wire, #14 for blue spare wire. All wiring shall be UF-UL rated. All connections shall be made with water tight connectors, and contained in control valve boxes. Provide two (2) spare wires that run the length of the mainline. Provide 36" extra wire length at each remote control valve in valve box. Install control wiring with main service line where possible, taped to the underside of the piping at regular intervals. Provide slack in control wires at all changes in direction.

16. Control valve size, type, quantity, and location to be approved by landscape architect. install in heavy duty plastic vandal proof box. Size boxes according to valve type and size for ease of maintenance and repair. Install one (1) cubic feet of pea gravel for sump in base of boxes. Boxes shall be Carson Brooks or equal.

17. Quick couplers shall be a Rain Bird 44NP with a (one) 1 inch Lasco unitized swing joint assembly and 1" brass insert 90° ell outlet. Support with rebar in each retainer lug. Install where shown on the plans.

18. Irrigation system backfill must occur only after system check is completed as specified. Use only rock free clean fill around pipes, valves, drains, or any irrigation system components. Water settle all trenches and excavations.

19. All irrigation pipe running through walls, under sidewalk, asphalt, or other hard surface shall be sleeved prior to paving. It is the irrigation contractors responsibility to coordinate sleeving with concrete and pavement contractors. Sleeves will be schedule 40 P.V.C. The depth for mainline sleeves shall be twenty-four (24) inches minimum. Depth for lateral sleeves shall be sixteen (16) inches minimum. Sleeves shall be a minimum of two sizes larger than the pipe to be sleeved. All valve wiring shall be contained in separate sleeving.

20. Plans are diagrammatic and approximate due to scale, where possible, all piping is to be installed within the planting areas. No tees, elbows, or changes in direction shall occur under hardscape.

21. It is the contractors responsibility to verify all quantities based upon the plan prior to completion of a construction cost estimate.

22. The irrigation contractor shall flush and adjust all sprinkler heads for optimum performance and to prevent possible overspray onto walks, roadways, and/or buildings as much as possible.

23. This shall include selecting the best degree of arc to fit the site and to throttle the flow control of each valve to obtain the optimum operating pressure for each system. All mainlines shall be flushed prior to the installation of irrigation heads.

24. Drip system piping shall consist of a rigid schedule 40 PVC pipe distribution system connecting drip irrigated planter areas. Poly tubing or drip line shall be run off the rigid PVC in each planting area or island with a PVC to poly tubing adapter. No poly tubing shall run under pavement.

25. Electrical power source at the controller location shall be provided by electrical contractor. Contractor shall verify location of controller prior to installation with owner.

26. Provide and install all manufacturer's recommended surge and lightning protection equipment on all controllers.

27. All lines shall slope to manual drains (see details). If field conditions necessitate additional drains, these drains shall be installed for complete drainage of the entire system. Provide a gravel sump under each drain. All drains shall be a minimum of 6" below grade.

28. Upon completion and approval of irrigation system, irrigation contractor to provide the owner with two sets of drawings indicating actual location of piping, valves, sprinkler heads, wiring, and zones.

29. An irrigation zone map shall be provided in a protective jacket and be kept with the main irrigation controller. The map shall show all approved irrigation and include all zone valve locations.

30. It shall be the responsibility of the sprinkler contractor to demonstrate to the Owner the proper winterization and start-up procedures for the entire system prior to final payment.

Irrigation Schedule

Symbol	Manufacturer/Model #	Description	Notes	Detail
Valves				
	Rain Bird XZ-100-PRB-COM	Drip Remote Control Valve	1 Inch Size; Drip Control Zone Kit; Install in Standard Valve Box with 1" Depth of Gravel over Weed Barrier; Install with Water Proof Wire Connectors	7/L3.1
	Rain Bird 44NP	Quick Coupler Valve with a Non-Potable Cap and a Swing Joint Assembly	1 Inch Size; Install in 10" Round Valve Box with 3" Depth of Gravel over Weed Barrier	8/L3.1
	Matco-Norca 759	Manual Drain Valve	1/2" Inch Size; Install at End of Mainline in a 10" Round Valve Box with 6" Depth Sump of Gravel Over Weed Barrier	10/L3.1
Drip				
	PVC Pipe To Drip Tubing	Provide Connection Fittings	Install 1" Feeder Line To All Drip Areas	11/L3.1
	Rain Bird XBS-940 Rain Bird XG-100 Rain Bird XG-200C Rain Bird DBC-025 Rain Bird MDCFCAP	3/4" Distribution Tubing - Pipe shown on Plan is Schematic; Adjust as Needed 1/4" Distribution Tubing - Install one per Emitter Xeri-Bug Emitter (2 Gal/Hr.) - 1 per Perennial 2 per Shrub/Ornamental Grass, 4 per Tree Tie Down Stake - Tubing to be Staked every 3' Diffuser Bug Cap - Install one per Emitter Removable Flush Cap - Install at the End of Each Line		6&13/L3.1

P.O.C. Components

	Mueller Oriseal Mark II	Stop & Waste Valve	1 Inch Size; Installed in 10" Round Valve Box with 3" Depth Gravel Over Weed Barrier	16/L3.1
None	Wilkins 500XL	Water Pressure Reducing Valve	Verify Water Pressure and Install if Needed; 1 Inch Size; Installed in 10" Round Valve Box with 3" Depth Gravel Over Weed Barrier	None
	Amiad Filter	Secondary Water Filter	1 Inch Size; Plastic Disc Filter with 300 Micron Stainless Steel Weave-Wire Screen Filter Element; Install Jumbo Size Irrigation Box Underground with 3" Depth of Gravel over Weed Barrier	15/L3.1

Pipes

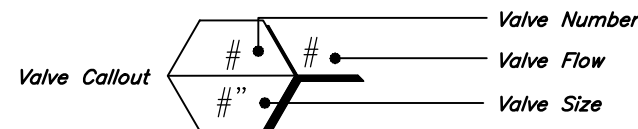
	Schedule 40 PVC	Mainline Pipe	1 Inch Size; Controller Wire Shall be Tucked Under Mainline; Sch 80 Fittings Shall be Used for Mainline Connections	9/L3.1
	Schedule 40 PVC	Lateral Line Pipe	See Plan for Pipe Sizes; Pipes Unmarked Shall be 1 inch; Minimum Pipe Size Shall be 1 inch for PVC Pipe; Sch 40 Fittings Shall be Used for Lateral Line Connections	9/L3.1

Controller

	Rain Bird ESP4MEI	4 Station Base Indoor Controller	Install Inside Building; Coordinate Location with Owner and Power Supply with Building Electrical Contractor; Provide a Zone Map Adjacent to Controller	16/L3.1
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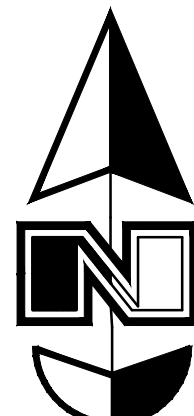
Sleeving

	Schedule 40 PVC	Provide for Irr. Mainlines, Laterals and Controller Wire Located Under Concrete and Asphalt Paving at Specified Depths	Contractor Shall Coordinate the Installation of Sleeving with the Installation of Concrete Flatwork and Asphalt Paving. All Sleeving Shall be by the Landscape Contractor Unless Otherwise Noted.	14/L3.1
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VALVE SCHEDULE

VALVE #	VALVE SIZE	IRRIGATION TYPE	FLOW (GPM)	PSI	PSI @ POC	PRECIP. RATE
1	1"	Area for Drip Emitters	3.80	33.12	33.64	0.58 in/h
2	1"	Area for Drip Emitters	3.36	32.43	32.85	0.83 in/h
3	1"	Area for Drip Emitters	3.76	32.82	33.77	0.41 in/h
4	1"	Area for Drip Emitters	4.76	34.1	36.35	0.41 in/h



Scale: 1" = 20'



Main Service Line & Other Irrigation Components Are Shown In Paved Or Hardscape Surfaced For Clarity Purposes ONLY! Install All Irrigation Components within Landscaped Areas.

Irrigation Notes

- See Sheet L1.1 for Plant Layout and Sheet L3.1 for Planting Details.
- See Sheet L2.1 for Irrigation Layout and Sheet L3.1 for Irrigation Details.
- The City Reports 80-90 psi in the Area. The Irrigation System Requires 37 psi to function. Verify Pressure and install a PRV as Needed.

Irrigation Plan

Tagg-N-Go

78 North 500 East
Santaquin, Utah



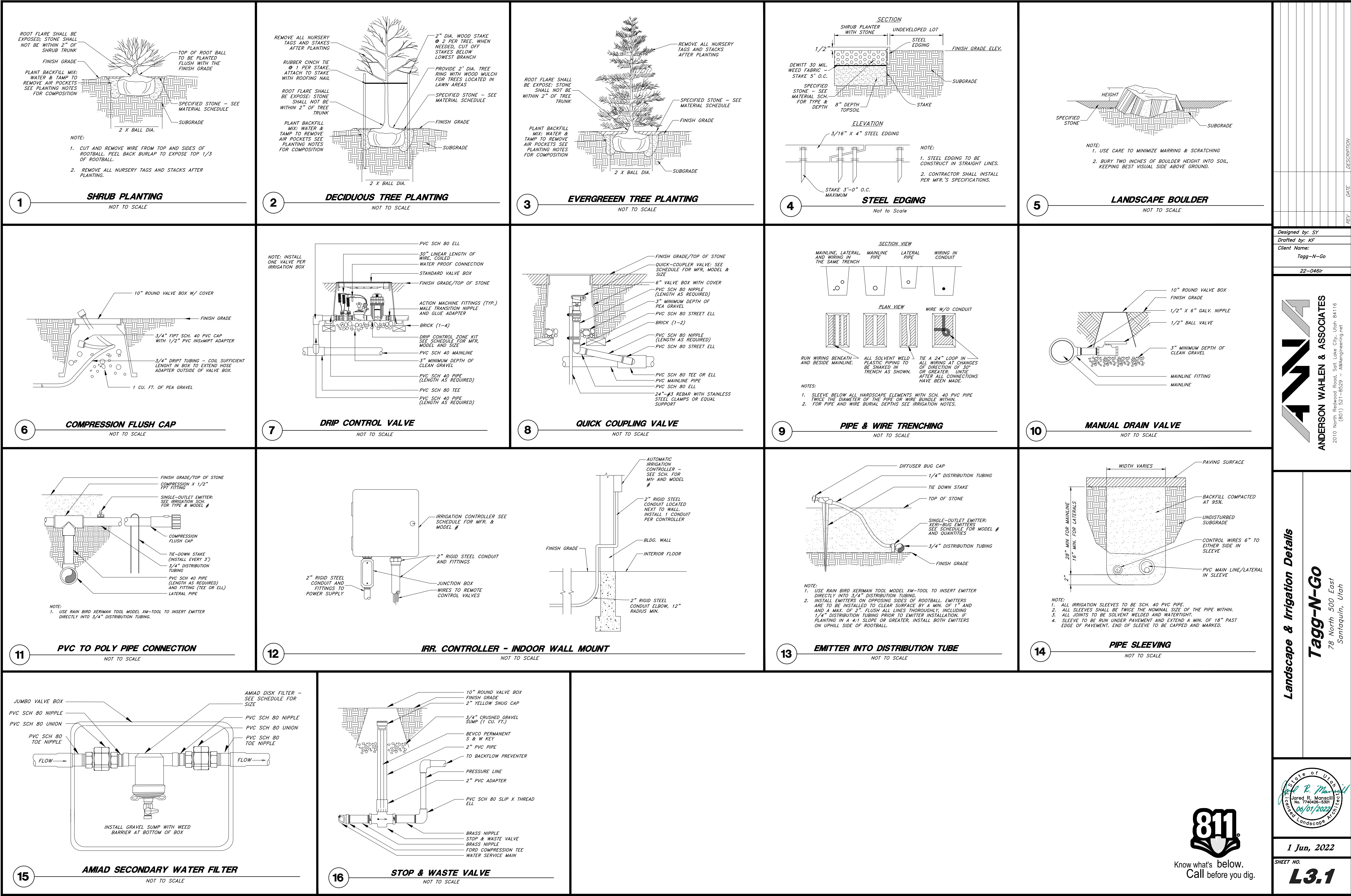
1 Jun, 2022

SHEET NO.

L2.1



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Designed by: SY
Drafted by: KF
Client Name:
Tagg-N-Go
22-046ir

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Landscape & Irrigation Details
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Santaquin, Utah

State of Utah
Jared R. Manscill
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Professional Landscape Architect

1 Jun, 2022
SHEET NO.
L3.1

811
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