



**AGENDA
TECHNICAL REVIEW COMMITTEE
REGULAR MEETING
APRIL 25, 2019
9:00 AM
CITY HALL COMMISSION CHAMBERS
204 ASH STREET
FERNANDINA BEACH, FL 32034**

- 1. CALL TO ORDER**
- 2. ROLL CALL**
- 3. APPROVAL OF MINUTES**
 - 3.1 April 11, 2019 Regular Meeting Minutes
- 4. DEVELOPMENT INQUIRIES FROM APPLICANTS NOT ON THE AGENDA - DISCUSSION ONLY, NO ACTION TO BE TAKEN.**
- 5. DISCUSSION ITEMS**
 - 5.1 Right of Way and Driveway Standards
- 6. COMMITTEE BUSINESS**
 - 6.1 SPR 2018-10_Courtyard Springhill_2700 Atlantic Avenue_Sign-off
- 7. ADJOURNMENT**

NEXT REGULAR TRC MEETING IS SCHEDULED FOR MAY 9TH 2019

Persons with disabilities requiring accommodations in order to participate in this program or activity should contact 310-3115, TTY 711, or through the Florida Relay Services at 1-800-955-8771 (TTY number for all City offices) at least 24 hours in advance to request such accommodations.



**MINUTES
TECHNICAL REVIEW COMMITTEE
REGULAR MEETING
APRIL 11, 2019**

1. CALL TO ORDER – 9:04 AM

2. ROLL CALL

MEMBERS PRESENT:

Jacob Platt, Planning
Jason Higginbotham, Fire (arrived at 9:05)
Andre Desilet, Stormwater
Sal Cumella, Planning

Rex Lester, Streets (arrived at 9:05)
John Mandrick, Utilities
Michelle Forstrom, Code
Don Kukla, Building (arrived at 9:21)

3. APPROVAL OF MINUTES

3.1 March 14, 2019 Regular Meeting

ACTION TAKEN: A motion was made by Member Forstrom, seconded by Member Desilet, to approve the minutes as presented.

Motion passed by unanimous voice vote.

4. DISCUSSION ITEMS

4.1 Change of Use: 731 S. 8th Street - Steve Johnson with Johnson Home Builders plans to relocate their office and design center to this location. This property is zoned MU-8, 8th Street Mixed Use.

Steve Johnson was present to discuss the proposed project. There will be no change to the footprint. One ADA parking space will be added and the existing dumpster will be removed from the ROW. Parking lot improvements and landscape requirements were discussed. The applicant was advised to move forward to permitting.

4.2 Pre-Application Discussion: 116 N. 2nd Street - CMR Properties plans to build townhouses on the four underlying lots of record. This property is zoned C-3, Central Business District and located within the CRA.

Mike McKloskey and were present to discuss the proposed project. A variance was recently granted by the Board of Adjustment to restore the underlying lots of record. A separate water meter for each unit vs. one for the entire structure was discussed. Flood proofing, parking and landscape buffer requirements were also topics of discussion. The applicants were advised to return to TRC for a full site plan review.

4.3 Pre-Application Discussion: 420 Citrona Drive - Asa Gillette with Gillette & Associates will be present to discuss the subdivision of a 3.32 acre parcel on the east side of Citrona Avenue, south of Date Street. This property is zoned R-1, Low Density Residential with a sliver of Conservation Land Use on the southeast corner.

Asa Gillette was present to discuss the proposed project. The parcel will be subdivided in accordance with density and lot width requirements. The existing single family home will remain. The sliver of Conservation land will be unaffected. Date Street will be improved, with the addition of a sidewalk. The applicant was advised to return for full site plan review.

4.4 Ash to Centre Street Sidewalk on the west side of the railroad tracks.

Asa Gillette remained seated to participate in this discussion item.

5. DEVELOPMENT INQUIRIES FROM APPLICANTS NOT ON THE AGENDA – DISCUSSION ONLY, NO ACTION TO BE TAKEN.

5.1 PJD's: 12 S 2nd Street - Dave and Voorhees were present to discuss a change of use to allow for the addition of indoor seating in what is currently used as retail space.

5.2 Marriott Hotel, 2700 Atlantic – Ron Flick was present to discuss. Mr. Flick had previously provided answers to comments from the committee.

Mr. Lester proposed a letter be drafted to DOT recommending the installation of a round-a-bout near this location.

5.3 A representative from FPU was present to observe and learn how to contribute to future TRC meetings.

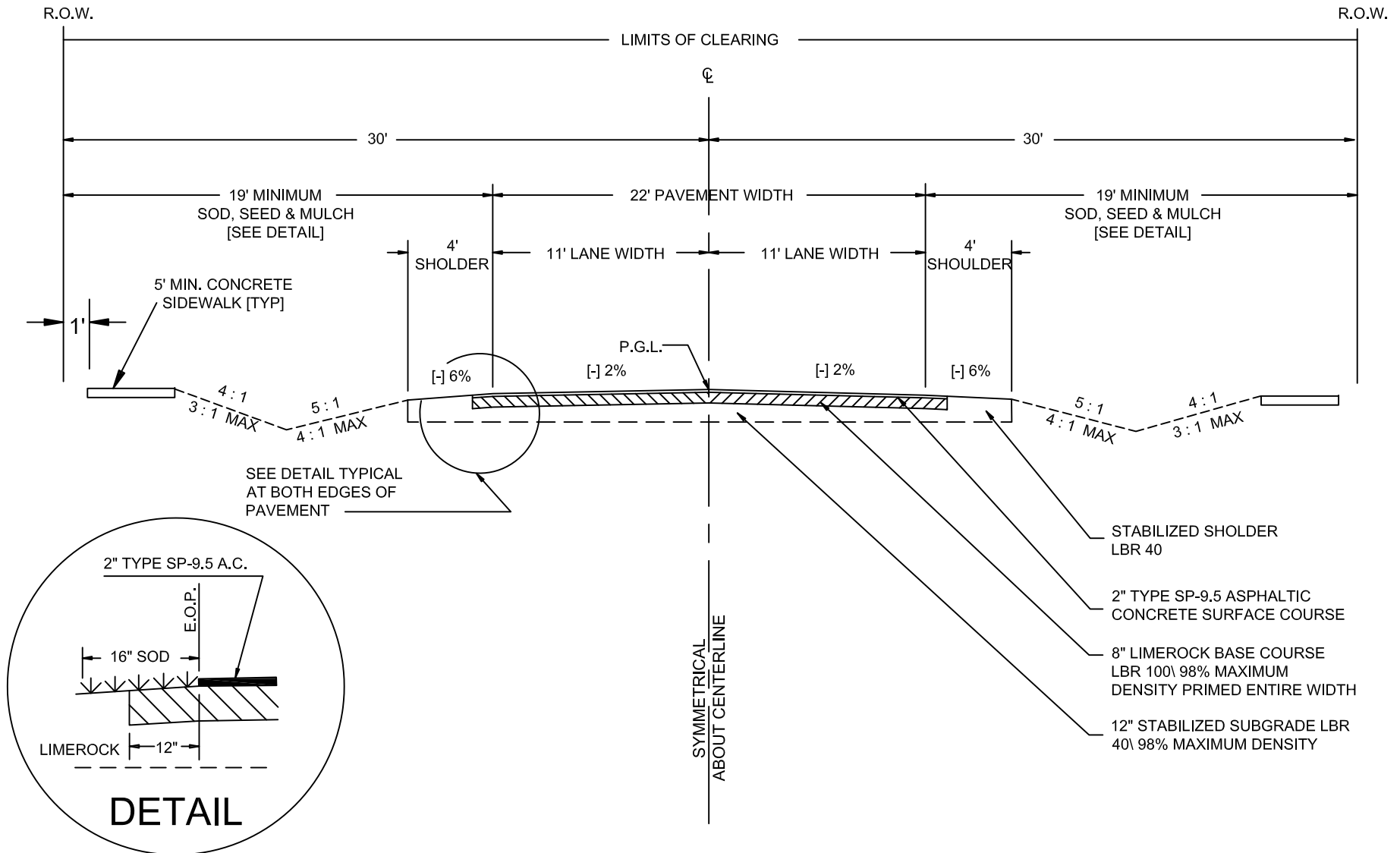
6. COMMITTEE BUSINESS

6.1 Distribute: SPR 2018-12 - 2nd Review

7. ADJOURNMENT – 11:06 AM

Jacob Platt

RIGHT-OF-WAY WIDTH: 60 FEET



OPTIONAL BASE MATERIALS MAY BE ACCEPTABLE UPON APPROVAL BY THE CITY OF FERNANDINA BEACH



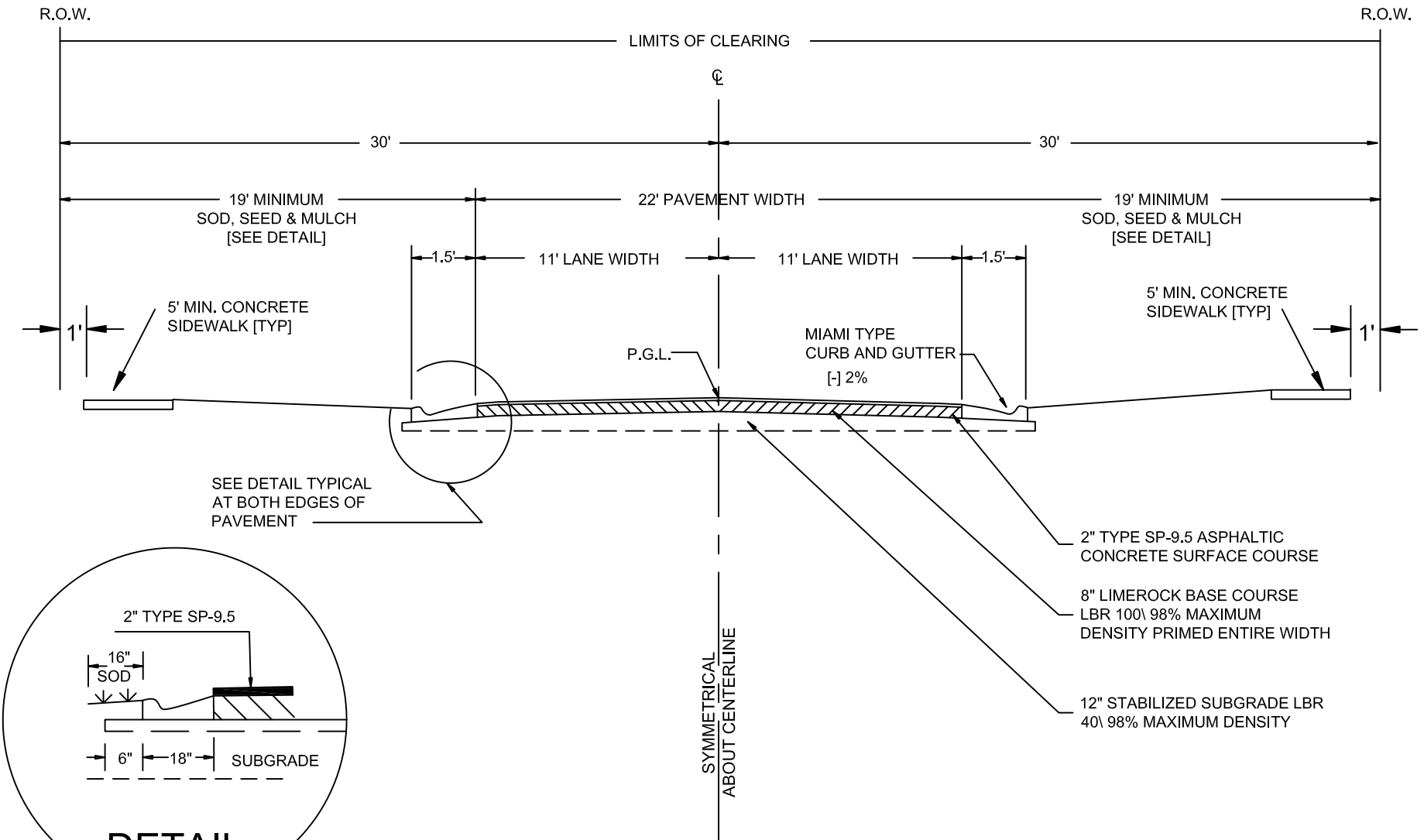
LOCAL ROAD - 2 LANE TYPICAL SWALE SECTION

ROADWAY STANDARD DETAILS

CITY OF FERNANDINA BEACH
1181 S. 5TH STREET FERNANDINA BEACH, FLORIDA

DATE: 2/27/19	RIGHT OF WAY TYP. 60'
ENGINEER: AD	SCALE: N.T.S.
DRAWN BY: BE	AUTHORIZED BY: AD
REVISED BY:	DRAWING #
REVISION DATE:	1 OF 11

RIGHT-OF-WAY WIDTH: 60 FEET



OPTIONAL BASE MATERIALS MAY BE ACCEPTABLE UPON APPROVAL BY THE CITY OF FERNANDINA BEACH



LOCAL ROAD - 2 LANE CURB & GUTTER TYP SECTION

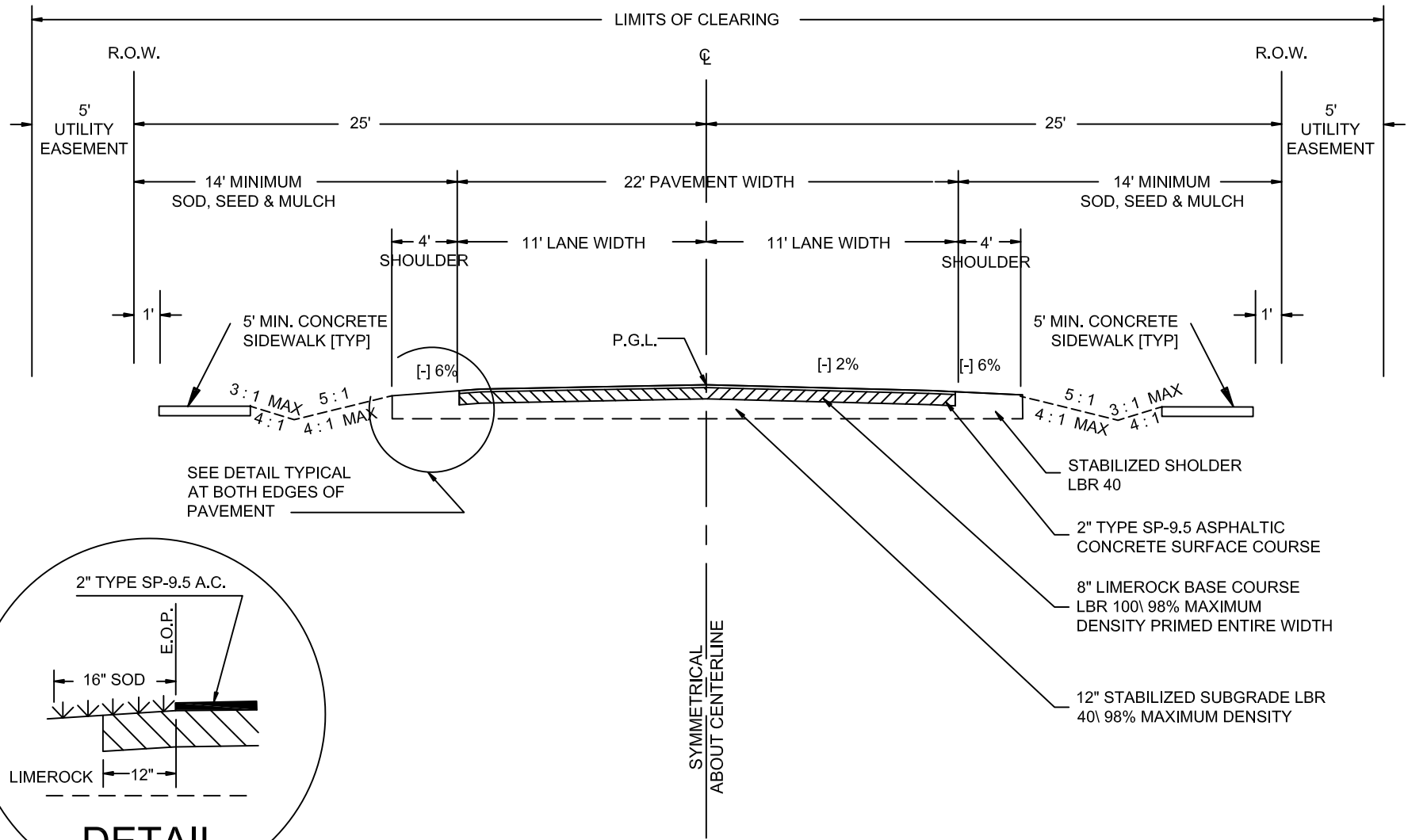
ROADWAY STANDARD DETAILS

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REVISED BY:	DRAWING #
REVISION DATE:	

2 OF 11

RIGHT-OF-WAY WIDTH: 50 FEET



LOCAL ROAD - 2 LANE TYPICAL SWALE SECTION

ROADWAY STANDARD DETAILS

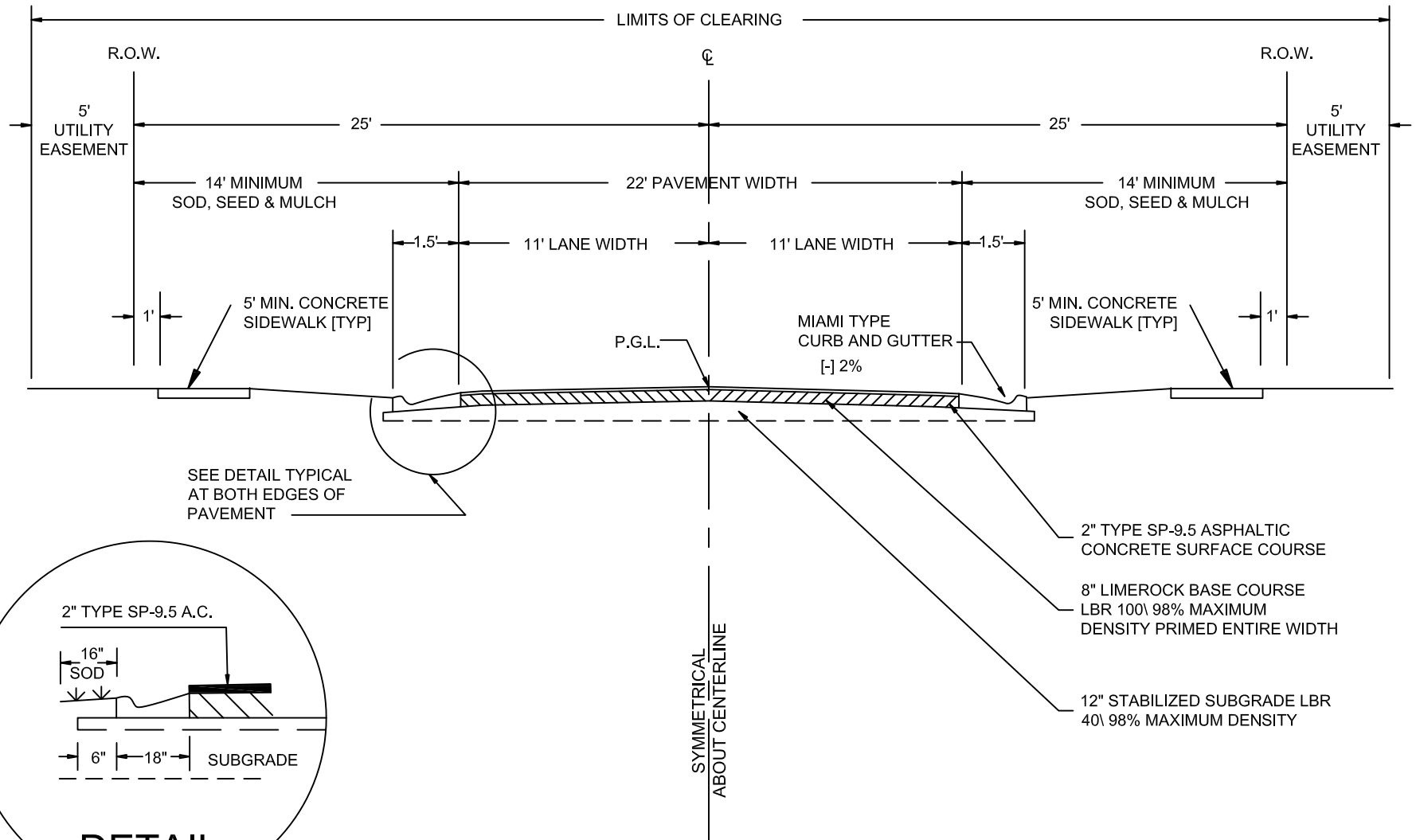
CITY OF FERNANDINA BEACH
1181 S. 5TH STREET FERNANDINA BEACH, FLORIDA

DATE: 2/27/19	RIGHT OF WAY TYP. 50'
ENGINEER: AD	SCALE: N.T.S.
DRAWN BY: BE	AUTHORIZED BY: AD
REVISED BY:	DRAWING #
REVISION DATE:	

3 OF 11



RIGHT-OF-WAY WIDTH: 50 FEET



OPTIONAL BASE MATERIALS MAY BE ACCEPTABLE UPON APPROVAL BY THE CITY OF FERNANDINA BEACH



LOCAL ROAD - 2 LANE CURB & GUTTER TYPICAL SECTION

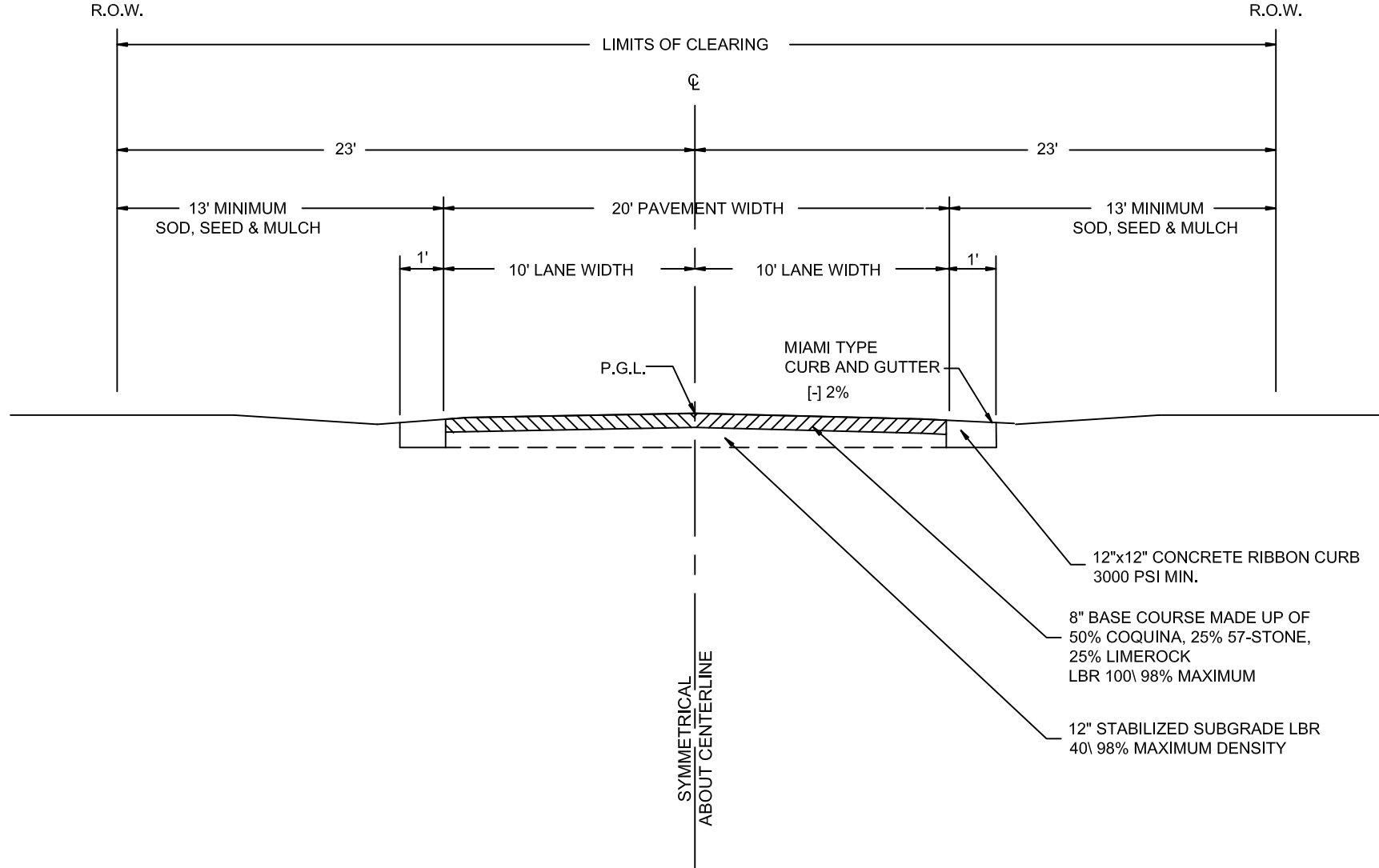
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4 OF 11

RIGHT-OF-WAY WIDTH: 46 FEET



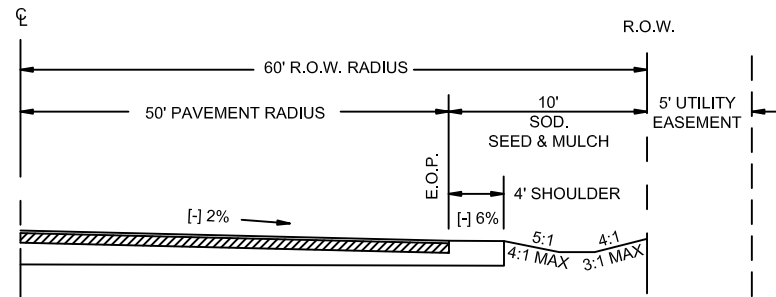
LOCAL ROAD - 2 LANE OLD TOWN TYPICAL SECTION



ROADWAY STANDARD DETAILS

CITY OF FERNANDINA BEACH
1181 S. 5TH STREET FERNANDINA BEACH, FLORIDA

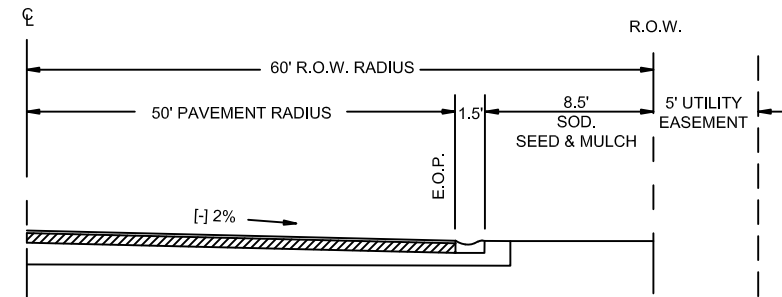
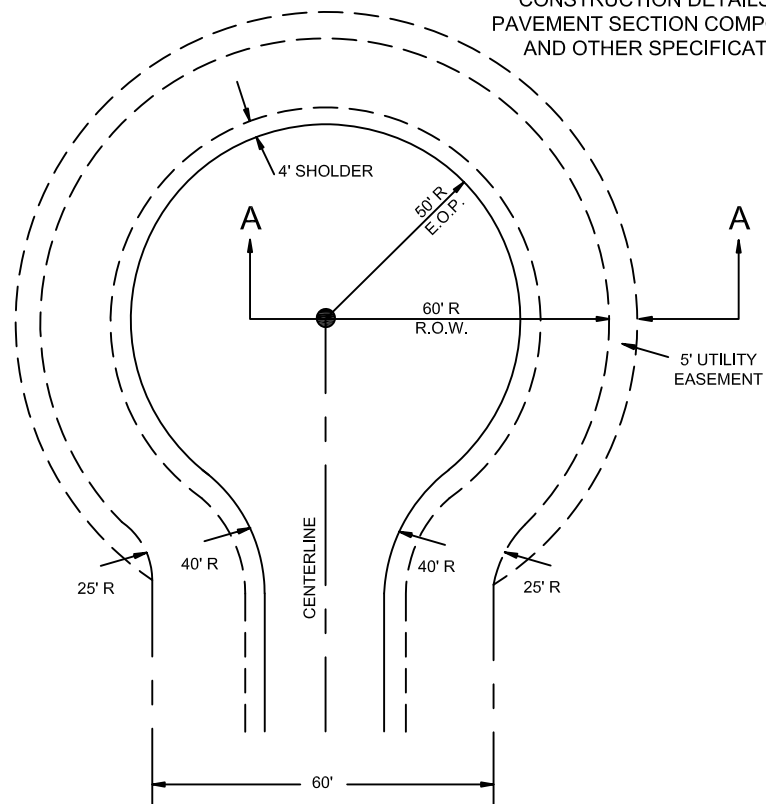
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REVISION DATE:	5 OF 11



SECTION "AA"

SYMMETRICAL
ABOUT CENTERLINE

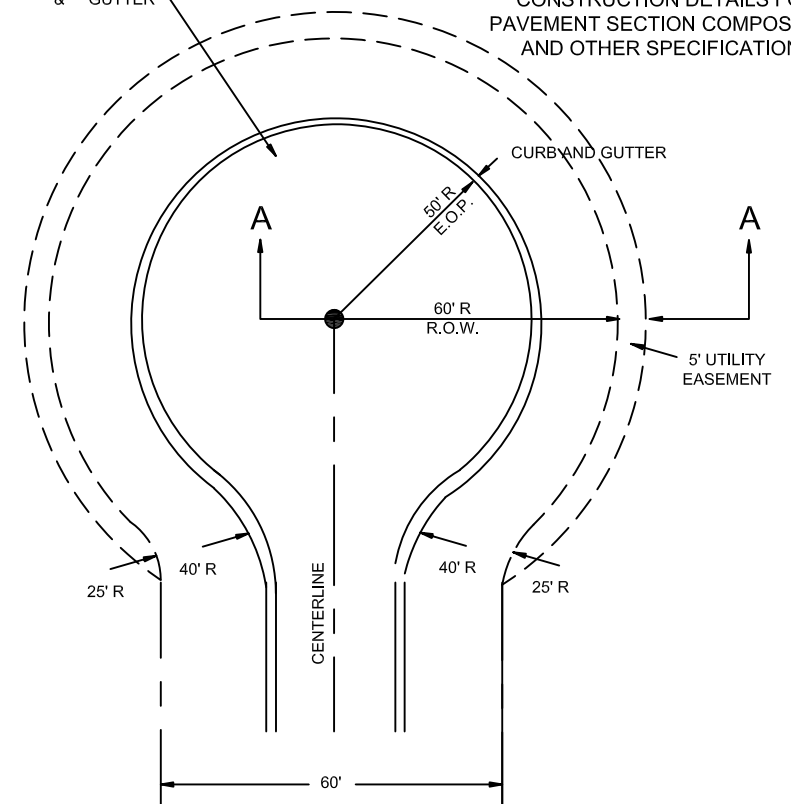
REFERENCE ROADWAY
CONSTRUCTION DETAILS FOR
PAVEMENT SECTION COMPOSITION
AND OTHER SPECIFICATIONS



SECTION "AA"

SYMMETRICAL
ABOUT CENTERLINE

REFERENCE ROADWAY
CONSTRUCTION DETAILS FOR
PAVEMENT SECTION COMPOSITION
AND OTHER SPECIFICATIONS



RESIDENTIAL CUL-DE-SAC CONSTRUCTION TYPICAL DETAIL

ROADWAY STANDARD DETAILS

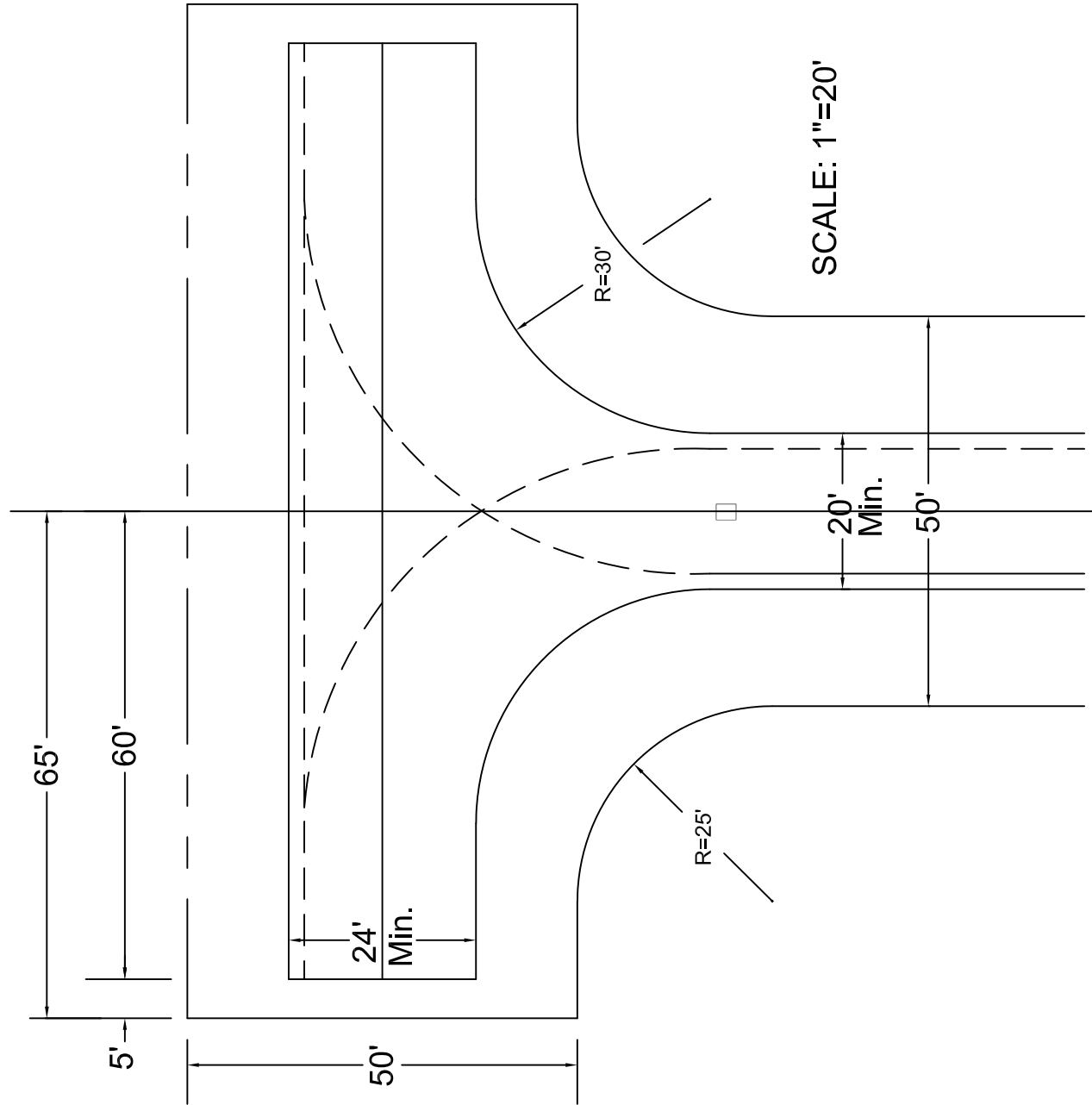
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REVISION DATE:	

6 OF 11



SPECIAL "T" TURNAROUND



SYMMETRICAL ABOUT q_L

KEY:

— — — — — PATH OF RIGHT FRONT WHEEL
(S.U. DESIGN VEHICLE-AASHTO,
A POLICY ON GEOMETRIC
DESIGN)

NOTE:

TO BE USED ONLY
WHERE CUL-DE-SAC
IS INAPPROPRIATE

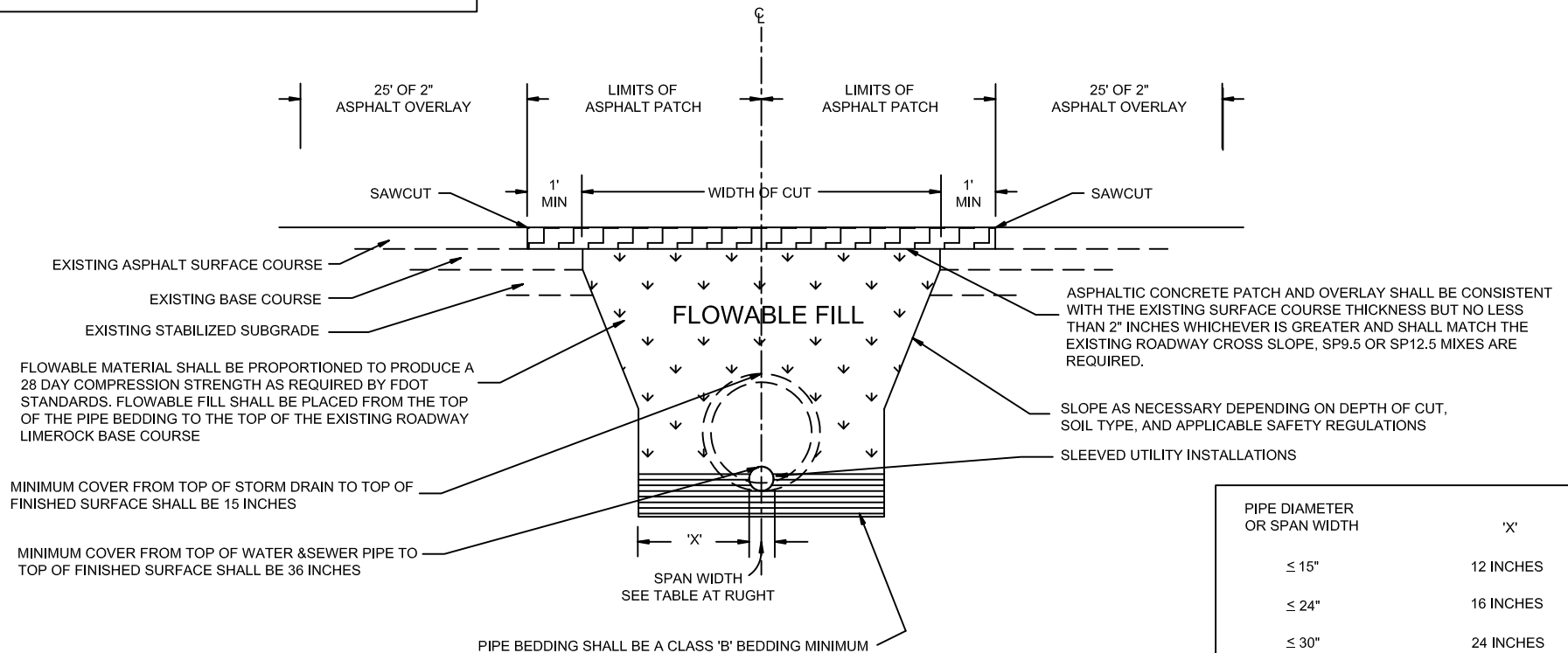
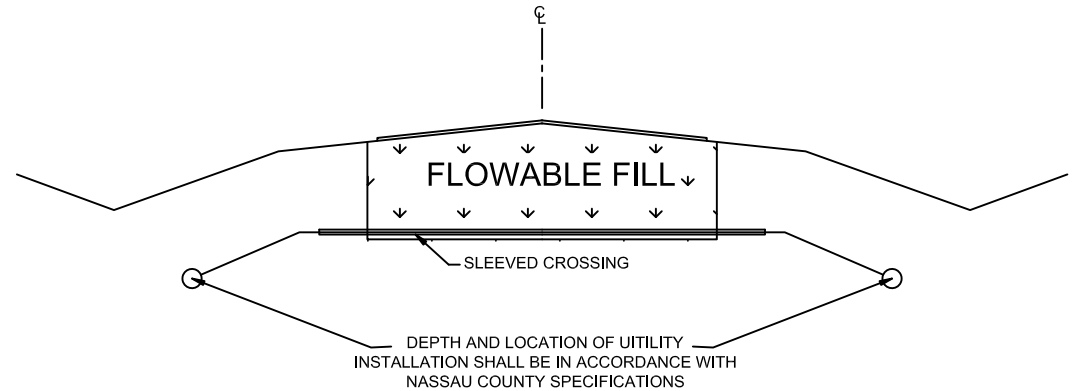
ROADWAY STANDARD DETAILS

CITY OF FERNANDINA BEACH
1181 S. 5TH STREET FERNANDINA BEACH, FLORIDA

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REVISION DATE:	7 OF 11

NOTES:

- 1) OPEN ROAD CUTS ARE GENERALLY NOT AN ACCEPTABLE MEANS OF CONSTRUCTION UNLESS APPROVED IN ADVANCE BY THE ENGINEERING SERVICES DEPARTMENT.
- 2) MATERIALS, MIX PROPORTIONS, PRODUCTION, PLACING, CONSTRUCTION REQUIREMENTS, AND ACCEPTANCE OF FLOWABLE FILL SHALL BE IN ACCORDANCE WITH NASSAU COUNTY SPECIFICATIONS
- 3) ALL OPEN CUTS SHALL REQUIRE A PERMIT AND 48 HOUR ADVANCE NOTICE TO THE ENGINEERING SERVICES DEPARTMENT INSPECTION STAFF PRIOR TO COMMENCEMENT OF CONSTRUCTION A REPRESENTATIVE FROM THE COUNTY'S INSPECTION STAFF MUST BE PRESENT AT THE TIME OF INSTALLATION OF THE UTILITY
- 4) PUBLIC SAFETY SHALL BE MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROVISIONS OF PART 6, WORK ZONE TRAFFIC CONTROL, OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE FDOT STANDARDS, LATEST EDITION
- 5) THE CONTRACTOR SHALL PROVIDE TO THE NASSAU COUNTY CEI CERTIFICATION OF THE MIX DESIGN FROM THE SUPPLIER AT THE TIME OF CONSTRUCTION
- 6) 1" ASPHALT OVERLAY LONGITUDINALLY, TO BE 25' EACH WAY FROM LIMITS OF PATCH / REPAIR (OR VARIED BY THE CITY OF FERNANDINA BCH



PIPE DIAMETER OR SPAN WIDTH	'X'
≤ 15"	12 INCHES
≤ 24"	16 INCHES
≤ 30"	24 INCHES
≤ 30"	36 INCHES



OPEN ROAD CUTS / FLOWABLE FILL

ROADWAY STANDARD DETAILS

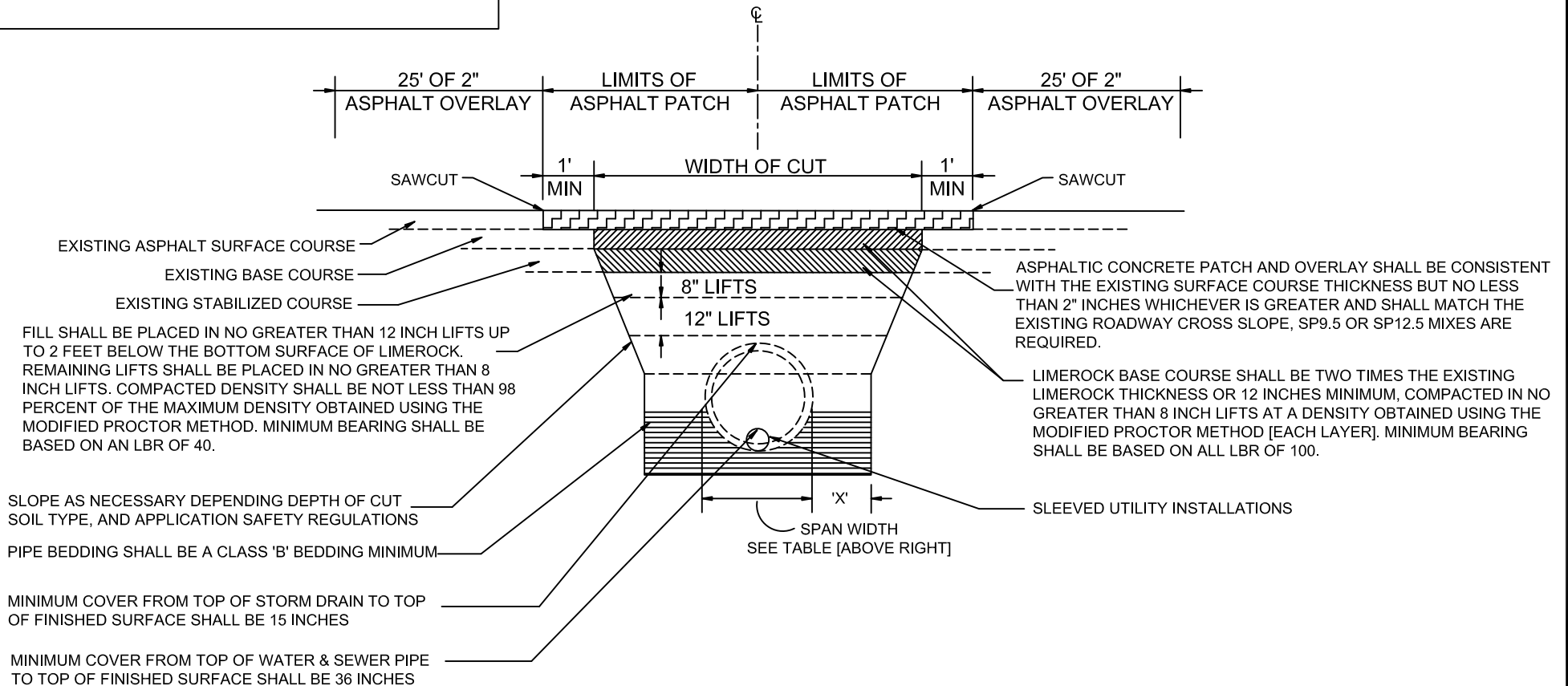
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REVISION DATE:	

8 OF 11

- 1] TEST REPORTS FOR DENSITY AND BEARING SHALL BE REQUIRED FOR ALL COMPACTED LIFTS
- 2] SOIL BEARING MAY BE DETERMINED BY A STATIC CONE PENETROMETER
- 3] FLOWABLE FILL IS THE PREFERRED ALTERNATIVE FOR ALL BACKFILL REQUIREMENTS (SEE OPEN ROADWAY CUT DETAIL NO. 15V FOR USE OF FLOWABLE FILL
- 4] PUBLIC SAFETY SHALL BE MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROVISIONS OF PART 6, TEMPORARY TRAFFIC CONTROL, OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE NASSAU COUNTY ROAD CLOSURE POLICY
- 5] ALL OPEN ROADWAY CUTS SHALL REQUIRE A 24 HOUR ADVANCE NOTICE TO THE ENGINEERING SERVICES DEPARTMENT INSPECTION STAFF PRIOR TO COMMENCEMENT OF CONSTRUCTION. A REPRESENTATIVE FROM THE HIGHWAY INSPECTION STAFF MUST BE PRESENT AT THE TIME OF INSTALLATION OF THE UTILITY
- 6] 1" ASPHALT OVERLAY LONGITUDINALLY, TO BE 25' EACH WAY FROM LIMITS OF PATCH/ REPAIR (OR VARIED BY THE CITY OF FERNANDINA BEACH FLORIDA

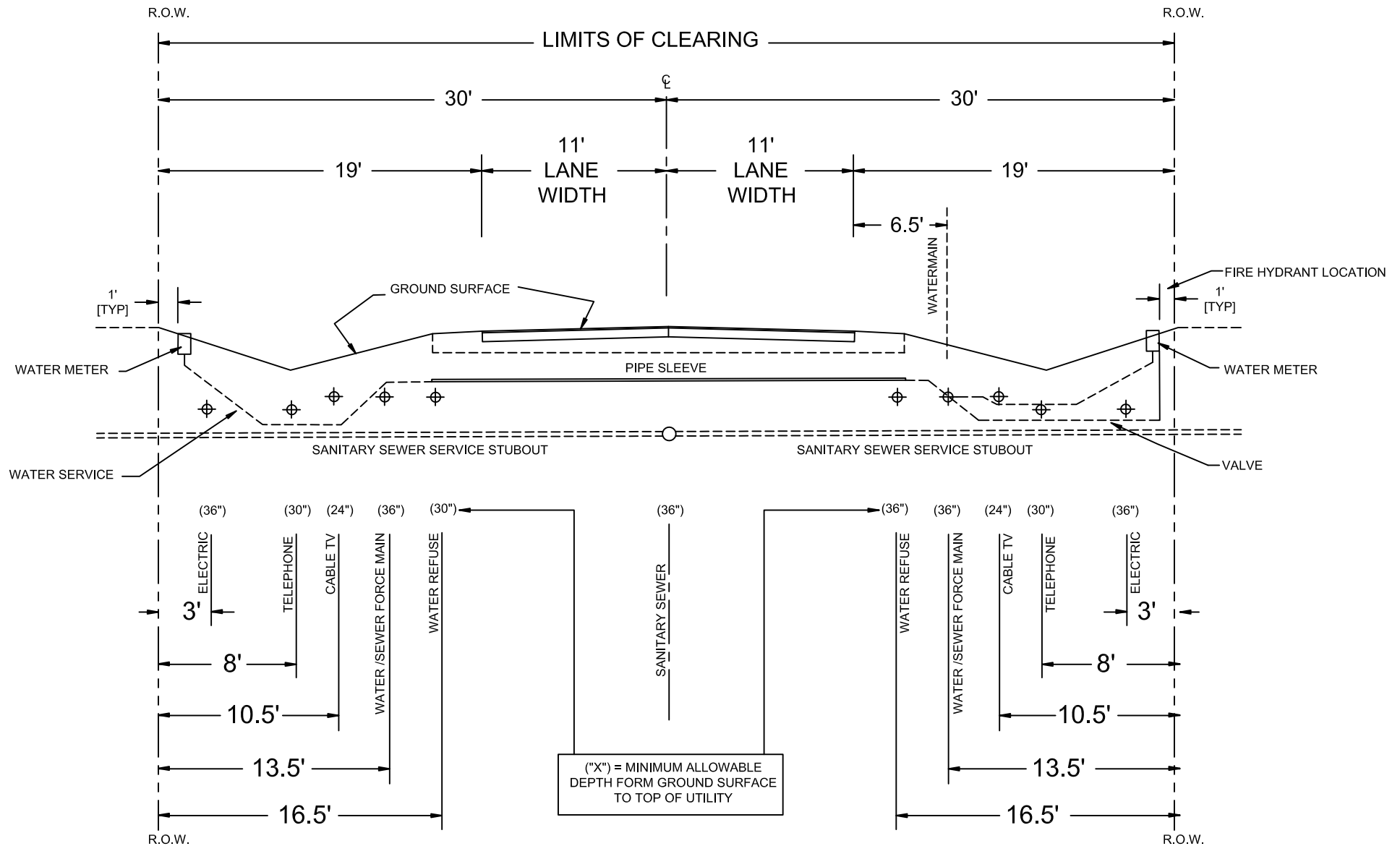
PIPE DIAMETER OR SPAN WIDTH	'X'
≤ 15"	12 INCHES
≤ 30"	24 INCHES
≤ 42"	30 INCHES
≤ 48"	36 INCHES
≤ 60	42 INCHES
≤ 60"	48 INCHES



OPEN ROAD CUTS / COMPACTED FILL

CITY OF FERNANDINA BEACH 1181 S. 5TH STREET FERNANDINA BEACH, FLORIDA	
DATE: 2/27/19	RIGHT OF WAY TYP. 60'
ENGINEER: AD	SCALE: N.T.S.
DRAWN BY: BE	AUTHORIZED BY: AD
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REVISION DATE:	9 OF 11

ALL UTILITIES TO BE INSTALLED BELOW DRAINAGE SYSTEM UNLESS APPROVED BY THE CITY OF FERNENDINA BEACH
ALL UTILITIES INSTALLED BELOW PAVEMENT MUST HAVE A MINIMUM COVER OF 36"



TYPICAL UTILITY LOCATION PLAN

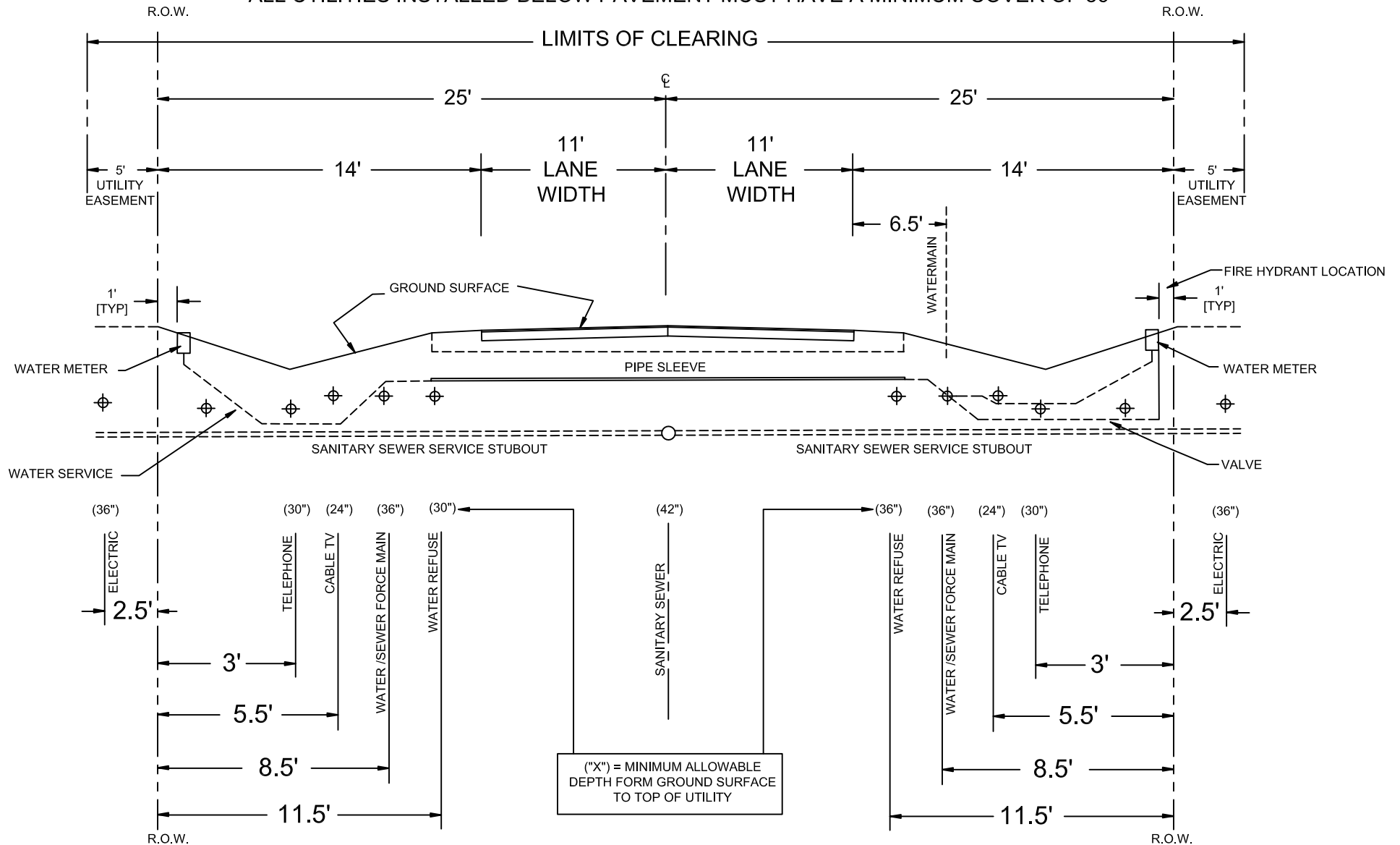
60 FOOT RIGHT-OF-WAY

ROADWAY STANDARD DETAILS

CITY OF FERNANDINA BEACH
1181 S. 5TH STREET FERNANDINA BEACH, FLORIDA

DATE: 2/27/19	RIGHT OF WAY TYP. 60'
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REVISED BY:	DRAWING #
REVISION DATE:	10

ALL UTILITIES TO BE INSTALLED BELOW DRAINAGE SYSTEM UNLESS APPROVED BY THE CITY OF FERNANDINA BEACH
ALL UTILITIES INSTALLED BELOW PAVEMENT MUST HAVE A MINIMUM COVER OF 36"



TYPICAL UTILITY LOCATION PLAN 50 FOOT RIGHT-OF-WAY

ROADWAY STANDARD DETAILS

CITY OF FERNANDINA BEACH
1181 S. 5TH STREET FERNANDINA BEACH, FLORIDA

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11 OF 11

ROADWAY CONSTRUCTION NOTES

1. All right-of-way other than roadway areas shall be seeded and mulched or sodded. All slopes steeper than 6:1 shall require sodding. The City reserves the right to require sodding in special areas where erosion is a concern, such as adjacent to sidewalk and back curb.
2. The following will be the standard protection for ditches unless drainage calculations indicate otherwise:

(Minimum slope for grass ditches shall be 0.5%)

<u>SWALE PROFILE GRADES</u>	<u>PROTECTION REQUIRED</u>
0.5%-1.0%	Grassing and mulching
1.0%-4.0%	Sod
4.0% and greater	Ditch paving (concrete)

3. The limits of stabilizing sub-grade shall extend to a varying depth (per plan) below the bottom of the base and outward to twelve inches (12") beyond the curb.
4. The stabilizing material should be a high bearing value soil, sand-clay, limerock, recycled concrete, shell, or other material as approved by the City and a licensed soils engineer.
5. The sub-grade for all street shall be stabilized not less than forty (40) pounds Limerock Bearing Ratio (LBR) to a 12" minimum depth. A compaction of no less than ninety-eight (98%) percent density based on AASHTO T-180 shall be required.
6. Tests for sub-grade bearing capacity and compaction shall be done at a minimum of every 250 feet and shall be staggered to the left, right, and at center line of the roadway. For short sections of roadway, at least two (2) tests shall be required.
7. Bases for all streets shall have a minimum 8" depth. Soil cement bases shall have a strength of 350 pounds per square inch at 28 days (85 to 125% tolerance). Recycled concrete or limerock bases shall be compacted to (98%) minimum density based on AASHTO-T 180 Modified Proctor Test (LBR 100).
8. Soil Cement and recycled concrete mix designs shall be submitted to the City for approval prior to start of sub-grade preparation.
9. Concrete delivery tickets shall be provided to the City at the time of placement.
10. Testing of the in-place bases shall be done at intervals equivalent to sub-grade testing and shall consist of, as a minimum, moisture content and compaction of the City.
11. Limerock, recycled concrete, or full depth asphalt pavement may be used in place of soils cement bases. All bases and roadway designs shall be subject to the approval of the City.
12. Soil cement base material construction shall be continuously supervised by a soil testing lab at the developer's expense.
13. Cure coating of soil cement base shall be removed by hand planning prior to installation of driving surface.

ROADWAY CONSTRUCTION NOTES

14. Soil cement pavement bases with the cure coat applied shall be allowed to cure a minimum of seven (7) days under no traffic prior to placing any asphalt surface. (Test report required prior to traffic usage)
15. Design mixes shall be submitted to the City Engineer for approval no less than three (3) working days prior to any roadway construction.
16. Asphalt specifications shall be submitted by the Design Engineer with final plans to the City. Florida State-certified batch plants must than certify that these approved specifications have been met.
17. Extraction and gradation test on asphalt mixes shall be provided to the City to ensure that design mixes meet the City standard specifications.
18. The roadway crown shall have a standard one quarter inch (1/4") per foot slope.
19. All roadways with curb and gutter sections shall have a standard, a minimum longitudinal slope of 0.30%.
20. The finished pavement edge may be within one quarter inch (1/4") above the adjacent concrete curb.
21. Concrete curbs shall be provided on both sides of all streets and constructed with 3,000 PSI concrete at 28 days.
22. Concrete curbs shall be saw cut 1/4" at intervals of ten feet (10') with expansion joints at street intersections, structures, and along curves at sixty feet (60') intervals. All expansion joint material is required to be installed through the entire depth of the concrete curb.
23. A "S" shall be cut or etched in the curb to make the location of all sewer service.
24. An upside-down "W" shall be cut in the outside edge of curb to mark the location of all water services.
25. Three (3) concrete cylinders shall be taken and tested (1 at 14 days and 1 at 28 days) for every seventy-five (75) cubic yards of concrete or less placed. Test results shall then be provided to the City Engineer as they become available.
26. The Developer shall provide all required pavement markings on all roadways per City, County, and State requirements. Centerline stripes shall be provided on extensions of City collector or arterial roads, county roads, and state highways only.
27. A City of Fernandina Beach approved Stop Sign and a 24" thermoplastic Stop Bar are required at all roadway intersections.
28. All traffic control devices placed at intersections, private streets, public streets, county roads, and state highways within the City limits shall be installed according to the Manual on Uniform Traffic Control Devices, latest edition.
29. The Developer is responsible for paying fees for Traffic Control Devices to the City for installation. Street signs and stop signs shall be placed at all intersection, including but not limited to private street, public street, county roads, and state highways within the City limits.

ROADWAY CONSTRUCTION NOTES

30. The Developer is responsible for paying fees for all street lights prior to acceptance of the project by the City.
31. A minimum of Five foot (5') wide sidewalks shall be provided on both sides of all residential streets, see details. Areas where additional width is required will be identified by City staff.
32. All materials utilized for improvements within the City Right of Way shall have a minimum design service life of 50 years.

33. Standard Turning Radii for Intersections:

Residential streets with state & County Roadways Or major thoroughfares within the City	40-50 ft.
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Entrances to commercial sites off of City streets	30 ft.
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Intersections interior in subdivisions	40 ft.
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Should Nassau County or the Florida Department of Transportation (FDOT) determine that larger radii are warranted within their right-of-way, the larger radii shall prevail.

34. Construction methods and design for concrete pavement shall conform to F.D.O.T. Standard Specifications for Road and Bridge Construction, latest edition.
35. All contractors who are performing the construction of public improvements (water main, sanitary sewer main, reclaimed water mains, storm pipes and inlets, and also constructions of roadways). Shall be certified with the Florida State Department of Business and Professional Regulations (DBPR) for the type of work that they perform.
36. Utility Depth:
- High Voltage utilities such as power (feeder, service, and drops) shall be buried a Minimum of 30 inches in depth, 36" under pavement.
 - Low Voltage utilities such as phone and cable TV shall be buried a minimum of 12 inches in depth for feeder and services. Services drops shall be buried a minimum of 6 inches in depth, 36" under pavement.
37. No new above ground installation of electrical, phone or cable distribution lines or services will be permitted in City of Fernandina Beach right of ways.
38. All dead end roadways that exceed one-hundred fifty feet (150') shall be provided with an approved turnaround.
39. Minimum vertical clearance over all roadways is 13'-6". Minimum vertical clearance over all sidewalks is 7'.

PERMIT SET

ENGINEERING PLANS

FOR

COURTYARD/SPRINGHILL
DUAL BRAND HOTEL

FOR

THE COMPASS GROUP

961687 GATEWAY BLVD
SUITE 201 M
FERNANDINA BEACH, FL 32034

GILLETTE & ASSOCIATES, INC.

Civil & Environmental Engineering
Mechanical & Structural Engineering
Permitting & Construction Management
20 South 4th Street Amelia Island, Florida 32034
Phone: 904/261-8819 Fax: 904/261-9905

PERMITTING AGENCIES

CITY OF FERNANDINA BEACH: 904-310-3421
SJRWMD: 904-730-6270

UTILITY PROVIDERS

WATER/SEWER: CITY OF FERNANDINA BEACH
ELECTRIC: FLORIDA PUBLIC UTILITIES
CABLE: COMCAST
TELEPHONE: AT&T

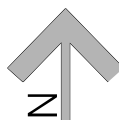
G&A Project
No.: 14-10.27

Issue Date: September 27, 2018
Revision Date: March 14, 2019

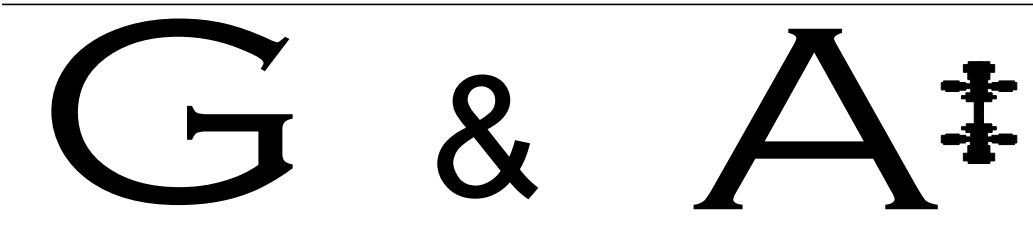
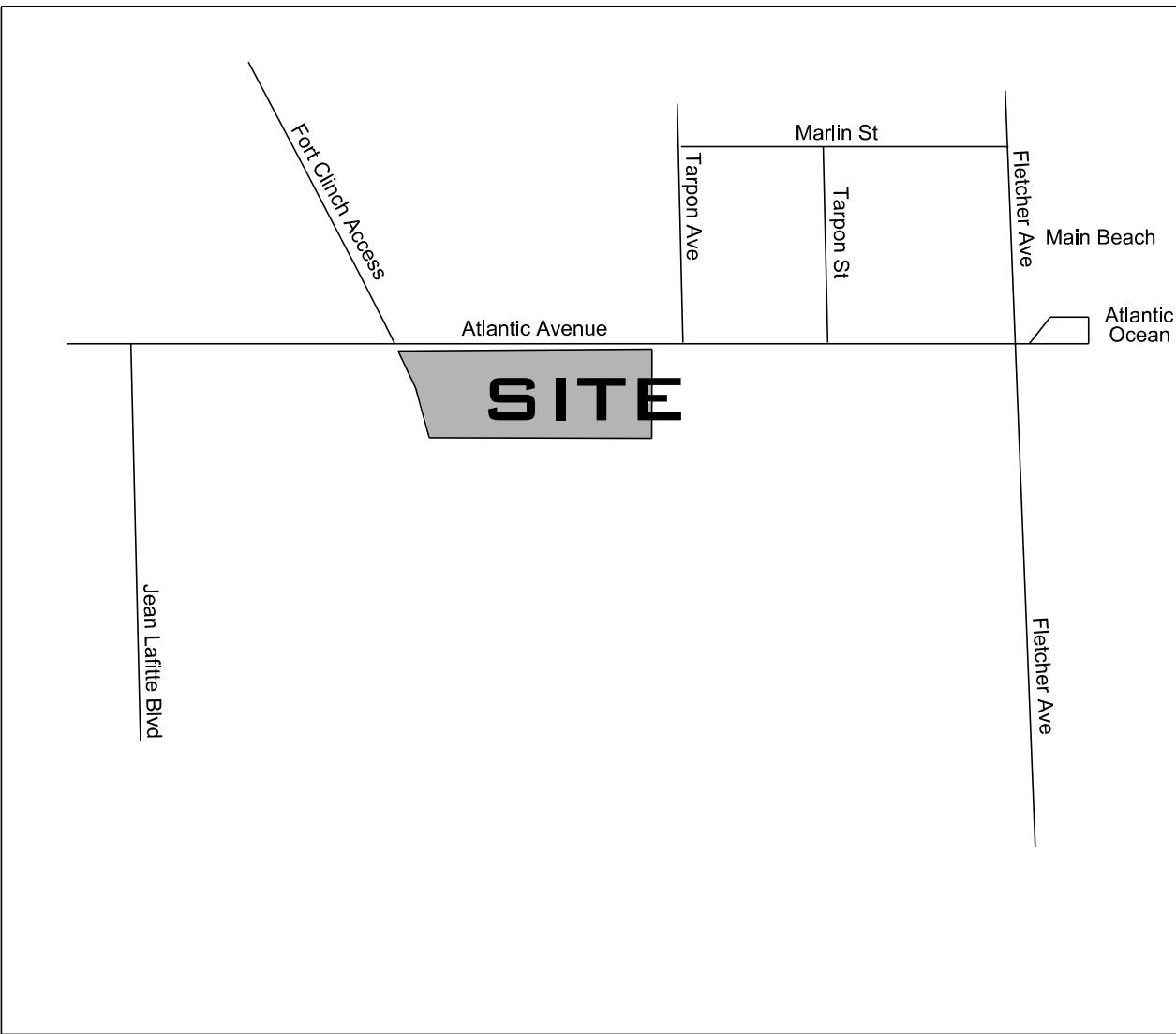
COURTYARD/SPRINGHILL
DUAL BRAND HOTEL

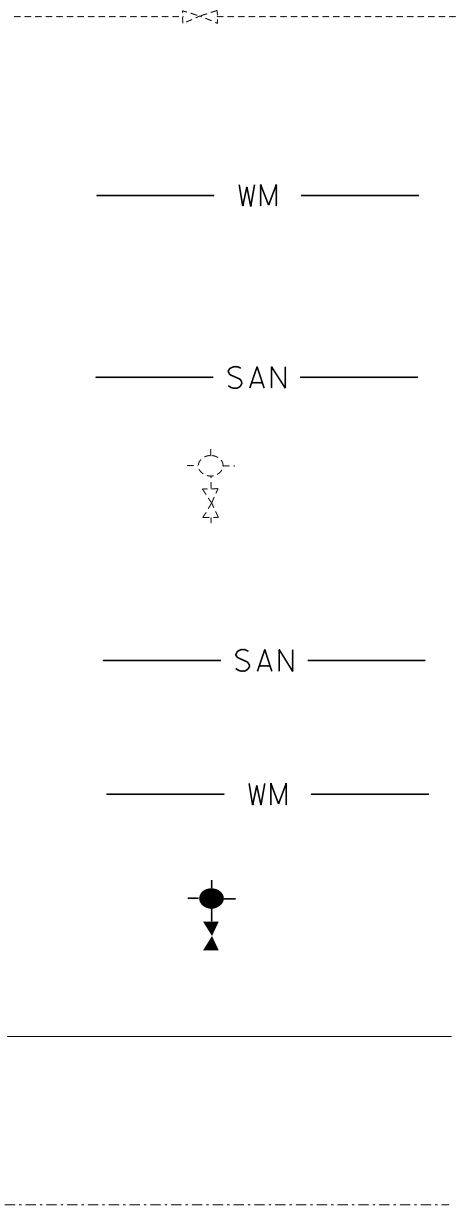
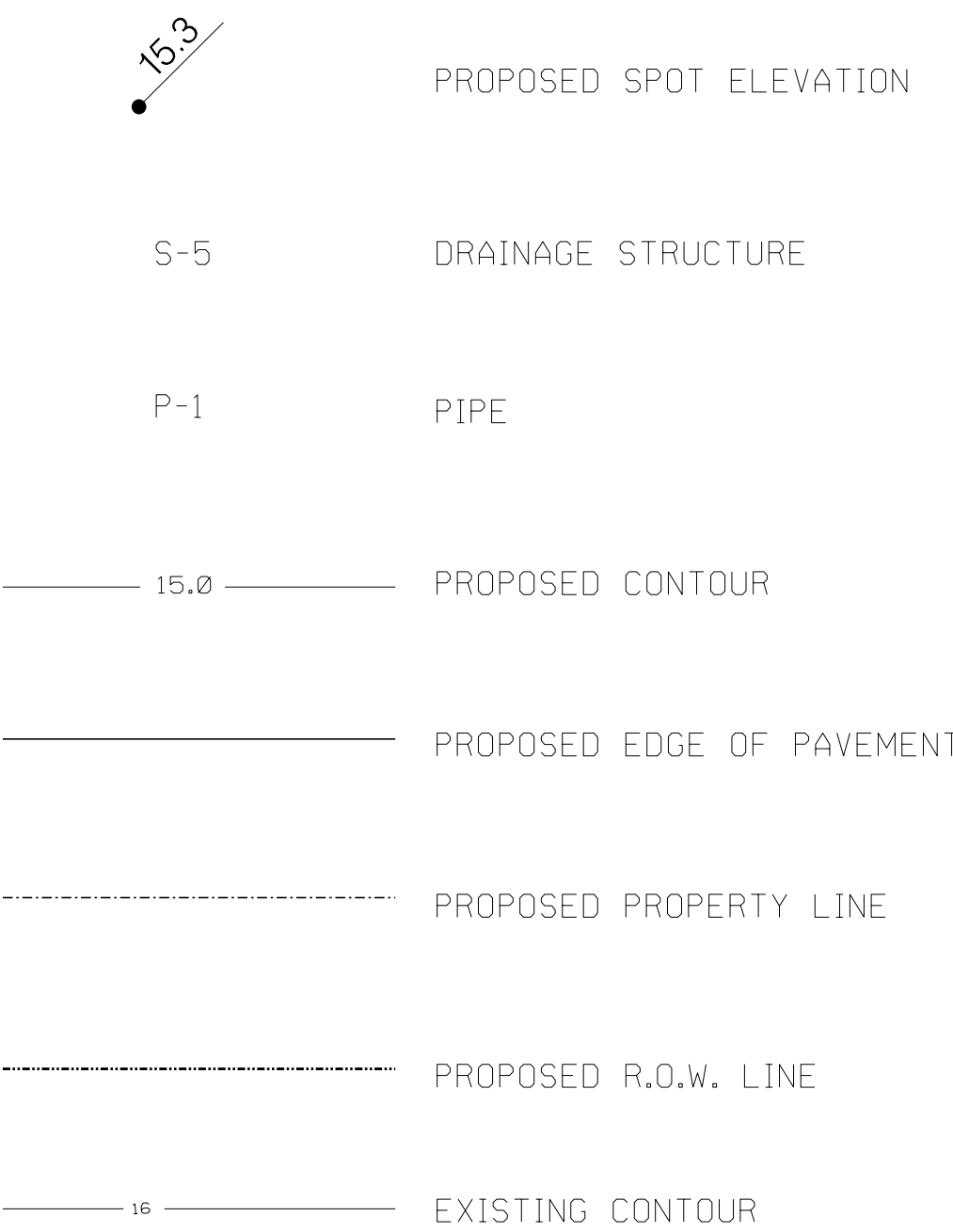
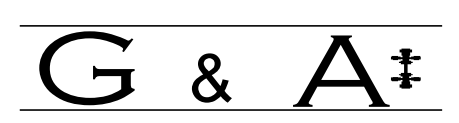
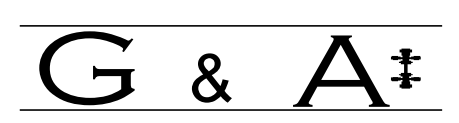
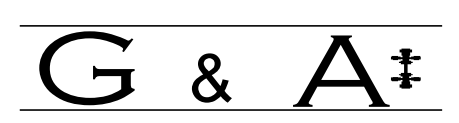
FOR
THE COMPASS
GROUP

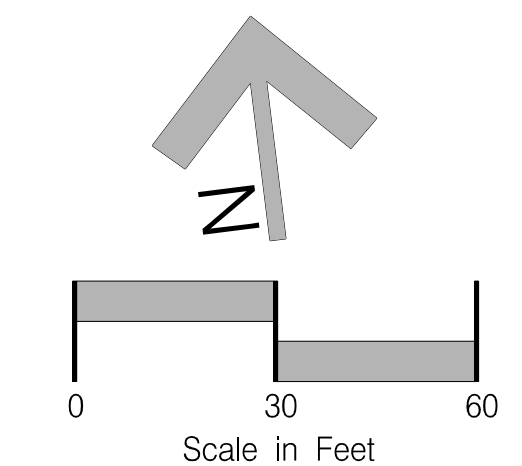
RELEASED FOR CONSTRUCTION BY



SITE LOCATION MAP



GENERAL NOTES				INDEX																																																																																																							
SITE / GEOMETRY				WATER NOTES																																																																																																							
1.ALL WORK SHALL BE PERFORMED IN A SAFE MANNER,ALL SAFETY RULES AND GUIDELINES OF O.S.H.A,SHALL BE FOLLOWED,THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES,AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT,ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A,REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTOR'S PRICE FOR PERFORMING THE WORK. 2.THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS,EITHER SURFACE OR SUBSURFACE,WHICH MAY AFFECT THE WORK TO BE PERFORMED,AND THE EQUIPMENT,LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT.THE CONTRACTOR IS URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THIS PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION,AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT,ALL COSTS ASSOCIATED WITH PRELUMINARY INVESTIGATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 3.ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER. 4.ELEVATIONS ARE BASED ON NAVD 1988. 5.TOPOGRAPHIC AND BOUNDARY INFORMATION WAS PROVIDED BY:MANZIE & DRAKE LAND SURVEYORS (904-491-5700) 6.THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING,RIGHT-OF-WAY PERMITS NOT PROVIDED AND INSURANCE REQUIRED FOR THE PROJECT. 7.THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR. 8.THE CONTRACTOR SHALL ADVISE THE OWNER'S AUTHORIZED REPRESENTATIVE OF PLANNED WORK SCEDULE.THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS.IN THE EVENT OF ANY CONFLICT WHATSOEVER,THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD,AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION. 9."AS-BUILT" DRAWINGS - AS-BUILTS ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE,IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION,FIELD LOCATIONS,CERTIFICATION,AND SUBMITTAL OF AS-BUILT DRAWINGS. 10."AS-BUILT" RECORD DATA AND INFORMATION SHALL BE MAINTAINED BY THE CONTRACTOR,RECORD DRAWINGS SHALL BE SUPPLIED TO THE ENGINEER. 11.THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS,IF A MONUMENT IS DISTURBED,THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT. 12.ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR ON A DAILY BASIS. 13.ALL EXCESS SUITABLE AND UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER. 14.ALL EXISTING TREES LISTED TO REMAIN SHALL BE PRESERVED AND PROTECTED. 15.THE LOCATION OF ALL EXISTING UTILITIES,STRUCTURES,AND IMPROVEMENTS ON THE DRAWINGS ARE BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED.THE LOCATIONS ARE APPROXIMATE.THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION,IF THE LOCATIONS SHOWN ARE CONTRARY TO ACTUAL FIELD LOCATIONS,THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY.THE DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION.THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITY IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR REPAIRS OR PAYMENTS FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS,PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION,THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS,AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH THEY SHALL CONNECT. 16.THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER ON ALL MATERIALS,FOR REVIEW AND APPROVAL,PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STRUCTURE. 17.UNSUITABLE MATERIALS UNDER WATER,SEWER,OR STORM PIPE AND/OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557).				18.ALL WATER & SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES. 19.WHEN DEWATERING CAPACITY REQUIRES A PERMIT (CUP),IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST.JOHN'S RIVER WATER MANAGEMENT DISTRICT. 20.WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY HAZARD,THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.WHERE PARALLEL WATER AND SEWER MAINS HAVE LESS THAN 10 FOOT HORIZONTAL SEPARATION,20 FOOT LENGTHS OF C900 (DR18)WATER QUALITY PIPE SHALL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS.THE PIPES SHALL BE PLACED IN SEPARATE TRENCHES WITH THE WATER MAIN AT LEAST 18 INCHES ABOVE THE SEWER. 21.WATER MAINS CROSSING SANITARY HAZARDS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN.WHERE WATER AND SEWER MAINS CROSS WITH BETWEEN 18 INCHES AND 6 INCHES OF VERTICAL CLEARANCE,A 20 FOOT SECTION OF C900 (DR18)WATER QUALITY PIPE SHALL BE CENTERED ON THE POINT OF THE CROSSING,THE CONTRACTOR SHALL FIELD VERIFY THE VERTICAL SEPARATION,THE MINIMUM SEPARATION BETWEEN WATER AND SEWER PIPES IS TO BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER. 22.NO WATER MAIN PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE. 23.BLANK 24.TRACER WIRE SHALL BE PROVIDED ON ALL WATER MAINS AND FORCE MAINS,TRACER WIRE SHALL BE A MINIMUM OF 10 GAUGE SOLID COPPER WIRE,COATED,AND SUITABLE FOR BURIAL,WIRE SHALL BE ATTACHED DIRECTLY TO TOP OF PIPE AND BROUGHT INTO EACH VALVE BOX AND COILED TO ALLOW FOR EASY ACCESS AND EXTENSION ABOVE FINISHED GRADE FOR ATTACHMENT OF LOCATING EQUIPMENT. 25.ALL PIPE LENGTHS ARE APPROXIMATE DIMENSIONS,ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH TYPICAL SECTIONS AND DETAILS AS SHOWN ON THE MISCELLANEOUS DETAILS SHEET AND IN ACCORDANCE WITH THE SPECIFICATIONS. 26.ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT. 27.GRADES SHOWN ON PLANS ARE EDGE OF PAVEMENT FINISHED GRADES UNLESS OTHERWISE NOTED. 28.SHOULD THE SURFACE OR SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS,THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. 29.ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFICALLY STATED. 30.THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENT-LADEN RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE.EROSION CONTROL FACILITIES SHOULD BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO SURFACE WATERS,RE-VEGETATION AND STABILIZATION OF DISTURBED AREAS SHOULD BE ACCOMPLISHED IMMEDIATELY TO REDUCE THE POTENTIAL FOR FURTHER SOIL EROSION. 31.ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE CITY OF FERNANDINA BEACH BEFORE COMMENCING WORK. 32.MINIMUM COVER OVER PIPES SHALL BE 36"UNLESS OTHERWISE INDICATED. 33.ALL UNDERGROUND UTILITY COMPANIES SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. 34.IN ADDITION TO THE SPECIFICATIONS AND DETAILS PROVIDED FOR THIS CONTRACT,THE CITY OF FERNANDINA BEACH STANDARD DETAILS AND SPECIFICATIONS (LATEST REVISION)SHALL ALSO BE USED FOR ANY ITEMS NOT COVERED.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A SET OF STANDARD DETAILS AND SPECIFICATIONS FROM THE CITY OF FERNANDINA BEACH. 35.BACKFILL MATERIAL SHALL BE COMPACTED TO 100% (.22)PER CITY OF FERNANDINA BEACH REQUIREMENTS UNDER EXISTING AND PROPOSED ROADWAYS. 36.NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER. 37.STATIONING REFERS TO THE CENTERLINE OF THE ROADWAY EXCEPT AS NOTED ON PLANS.WHERE PAVEMENT SPLITS, THE STATIONING FOLLOWS THE INSIDE EDGE OF PAVEMENT UNTIL ROADWAY TRANSITIONS BACK TO THE TYPICAL ROADWAY SECTION 38.ALL CONSTRUCTION,MATERIAL,AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH THE CITY OF FERNANDINA BEACH AND CITY OF FERNANDINA BEACH STANDARDS.																																																																																																							
				1.WATER MAINS SHALL HAVE A MINIMUM OF 36"COVER UNDER PAVEMENT OR 30"COVER FROM FINISHED GRADE UNLESS OTHERWISE SHOWN.ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH,AND UNDER THE DIRECTION OF THE UTILITY COMPANY. 2.THRUST RESTRAINTS ARE REQUIRED IN ACCORDANCE WITH UTHE UTILITY COMPANY STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES. 3.TIE RODS SHALL BE INSTALLED ON ALL VALVES LOCATED AT FITTINGS,ALL 10' AND LARGER VALVES AND LARGER SHALL REQUIRE (4)TIE RODS.MEGA LUG JOINT RESTRAINTS MAY BE USED IN LIEU OF THRUST BLOCKS OR TIE RODS. 4.UNLESS OTHERWISE NOTED,WATER MAINS ARE TO BE PVC DR18,DR-25,C-900 (BLUE),CLASS 150. 5.ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED IN ACCORDANCE WITH AWWA C-600.NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER MAINS HAVE BEEN PRESSURE TESTED, DISINFECTED,AND CLEARED FOR SERVICE.THE UTILITY COMPANY'S AUTHORIZED REPRESENTATIVE MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT. 6.THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES.THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.BOIL WATER NOTICES SHALL BE DELIVERED IN ACCORDANCE WITH THE UTILITY COMPANY BOIL WATER NOTICE REQUIREMENTS. 7.ALL MAIN FLUSHING POINTS SHALL BE SAME SIZE AS MAIN UP TO 8 INCH WATER MAINS.FLUSHING POINTS FOR MAINS LARGER THAN 8 INCH SHALL BE REDUCED TO 8 INCH. 8.ALL WATER MAINS SHALL BE DISINFECTED USING LIQUID CHLORINE OR HYPOCHLORITES IN ACCORDANCE TO AWWA C651-86. WATER IN MAIN SHALL MAINTAIN A CHLORINE RESIDUAL OF .50 MG/L FOR A MINIMUM OF 24 HOURS.WATER MAIN SHALL NOT BE PLACED IN SERVICE UNTIL CLEARANCE HAS BEEN PROVIDED BY THE APPROPRIATE REGULATING AGENCY AND UNITED WATER FLORIDA. 9.IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH,WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED,BASED ON APPROVAL OF THE PERMITTING AGENCY,DUCTILE IRON PIPE,FITTINGS,AND SOLVENT RESISTANT GASKET MATERIAL SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED ARE.THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED,ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATER PROOF COVERING.THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL. 10.2" FLUSHING HYDRANTS SHALL BE INSTALLED AT ALL DEAD END LINES AND MAIN LINE STUB-OUTS. 11.A SEPARATE WATER SERVICE SHALL BE REQUIRED FOR EACH UNIT SERVED AND SHALL BE INSTALLED 3 FEET EITHER SIDE OF PROPERTY LINE,ALL WATER SERVICES SHALL BE MARKED WITH A "W" ETCHED ON THE CURB.ALL VALVES SHALL BE MARKED WITH A "V" ETCHED ON THE CURB. 12.ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY COMPANY'S STANDARDS. 13.ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED AT THE CONSUMER'S METER OR AT THE PROPERTY LINE WHEN A METER IS NOT USED. 14.BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED BY A STATE OF FLORIDA LICENSED BACKFLOW TECHNICIAN,TEST RESULTS SHALL BE SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY PRIOR TO ACCEPTANCE OF INSTALLATION. 15.MAXIMUM DEPTH ON WATER SERVICES TO METER TO BE 36".		ALL PERMITTING AGENCIES COVER SHEET INDEX SHEET PRE-DEVELOPMENT DRAINAGE PLAN GEOMETRY PLAN-ABOVE GRADE GEOMETRY PLAN-BELOW GRADE FDOT GEOMETRY AND UTILITY PLAN POST DEVELOPMENT DRAINAGE PLAN-ABOVE GRADE POST DEVELOPMENT DRAINAGE PLAN-BELOW GRADE TREE REMOVAL/PROTECTION PLAN LANDSCAPE PLANS IRRIGATION PLANS MISCELLANEOUS DETAILS SEWER & WATER DETAILS LIFT STATION DETAIL FDOT DETAILS																																																																																																					
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—●— SILT FENCE (TYP)

LEGEND	NOTES
BUILDING AREA	32,003 SF BUILDING PREVIOUSLY CONSTRUCTED
PAVEMENT AREA	30,084 SF PREVIOUSLY PAVED AREA
	TOTAL 62,087 SF
	CURVE NUMBER = 83 PREDEVELOPMENT

No.	By	Date	Revised
K			
J			
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F			
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Scale: 1" = 30'
Project Mgr: NG
Designed by: NG
Drawn by: BM
QA/QC: AG
Certificate of Authorization No. 9332
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G & A⁺
GILLETTE & ASSOCIATES, INC.
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PHONE: (904) 261-8819
FAX: (904) 261-9905

THE COMPASS GROUP

COURTYARD/SPRINGHILL DUAL BRAND

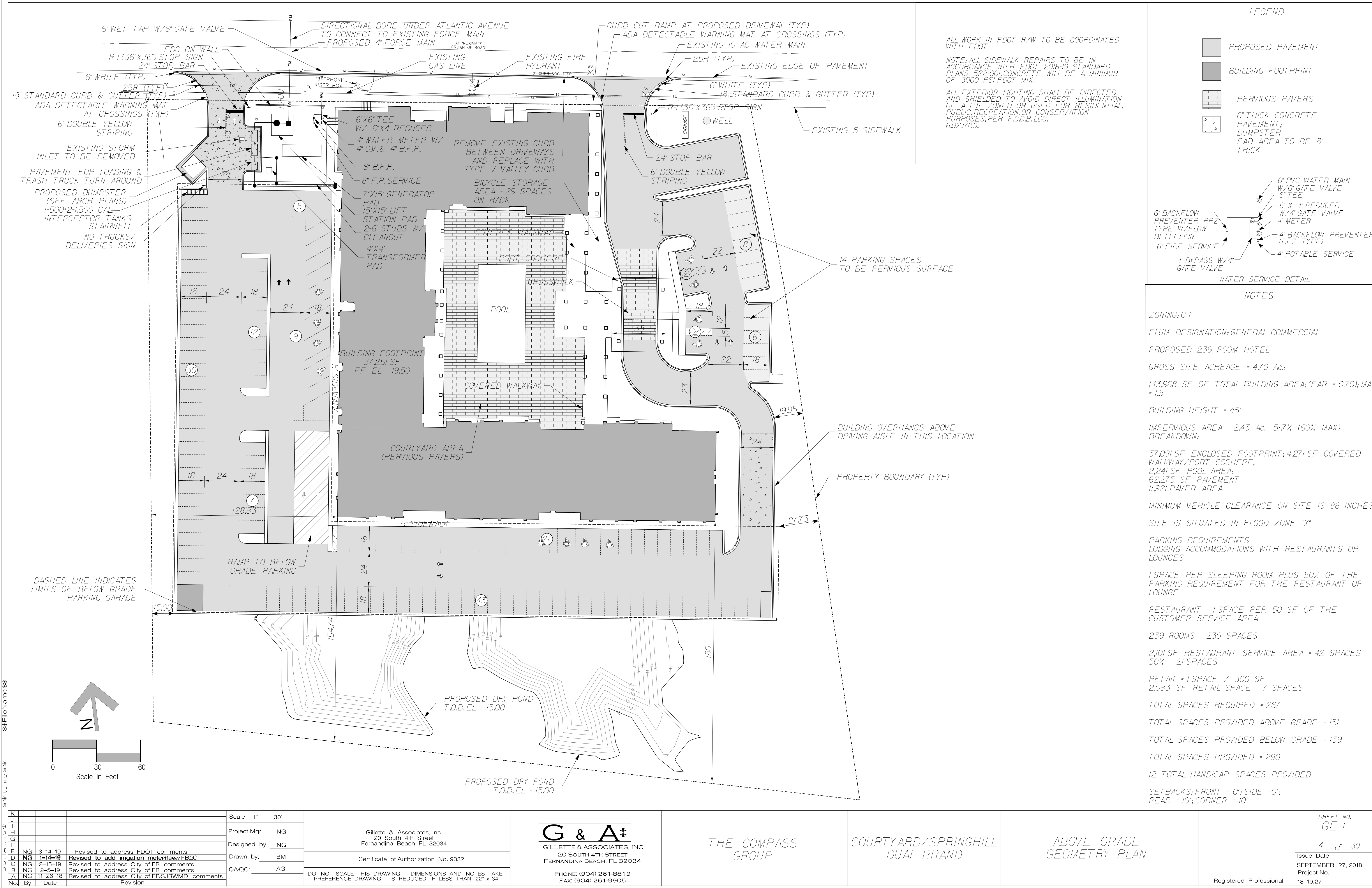
PREDEVELOPMENT DRAINAGE PLAN

Issue Date
SEPTEMBER 27, 2018
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18-10-27

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Issue Date
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K			
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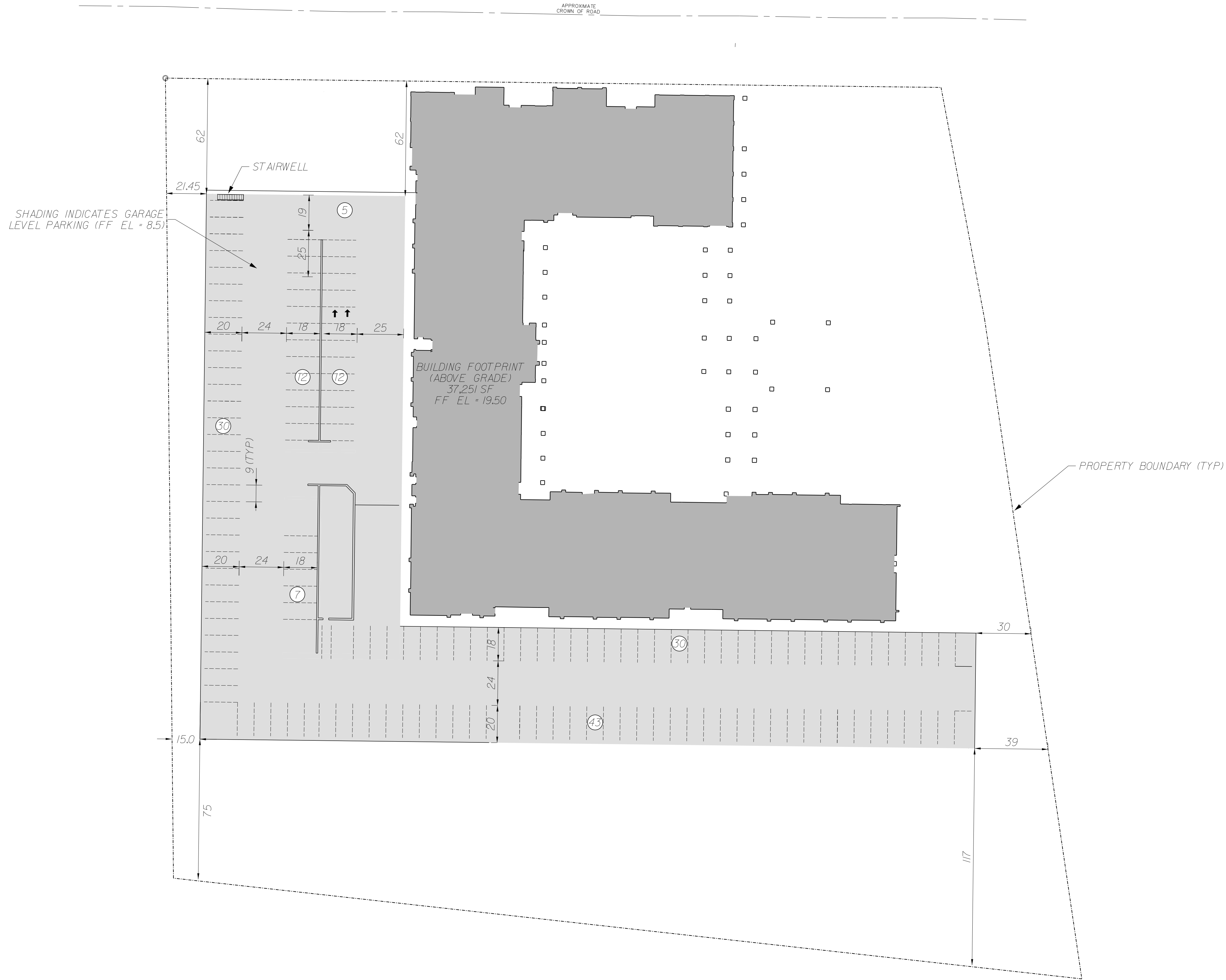
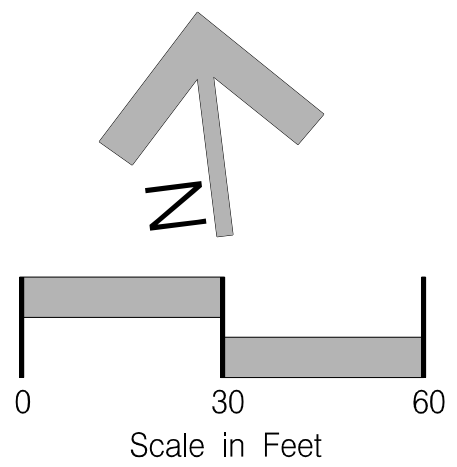
THE COMPASS GROUP

COURTYARD/SPRINGHILL DUAL BRAND

ABOVE GRADE GEOMETRY PLAN

SHEET NO.
GE-1
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Issue Date
SEPTEMBER 27, 2018
Project No.
18-10-27

Registered Professional



LEGEND	
	PROPOSED PAVEMENT
	BUILDING FOOTPRINT

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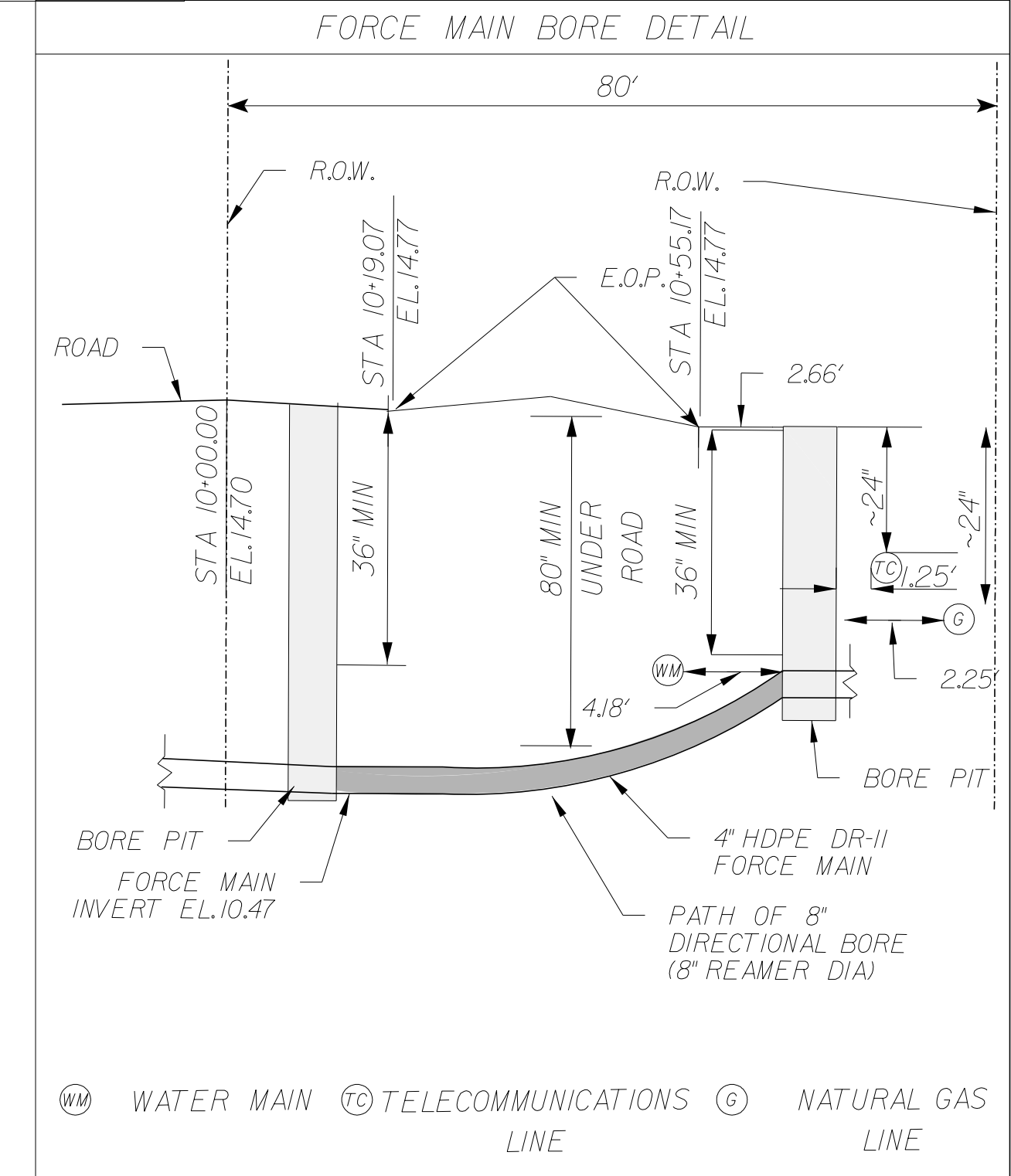
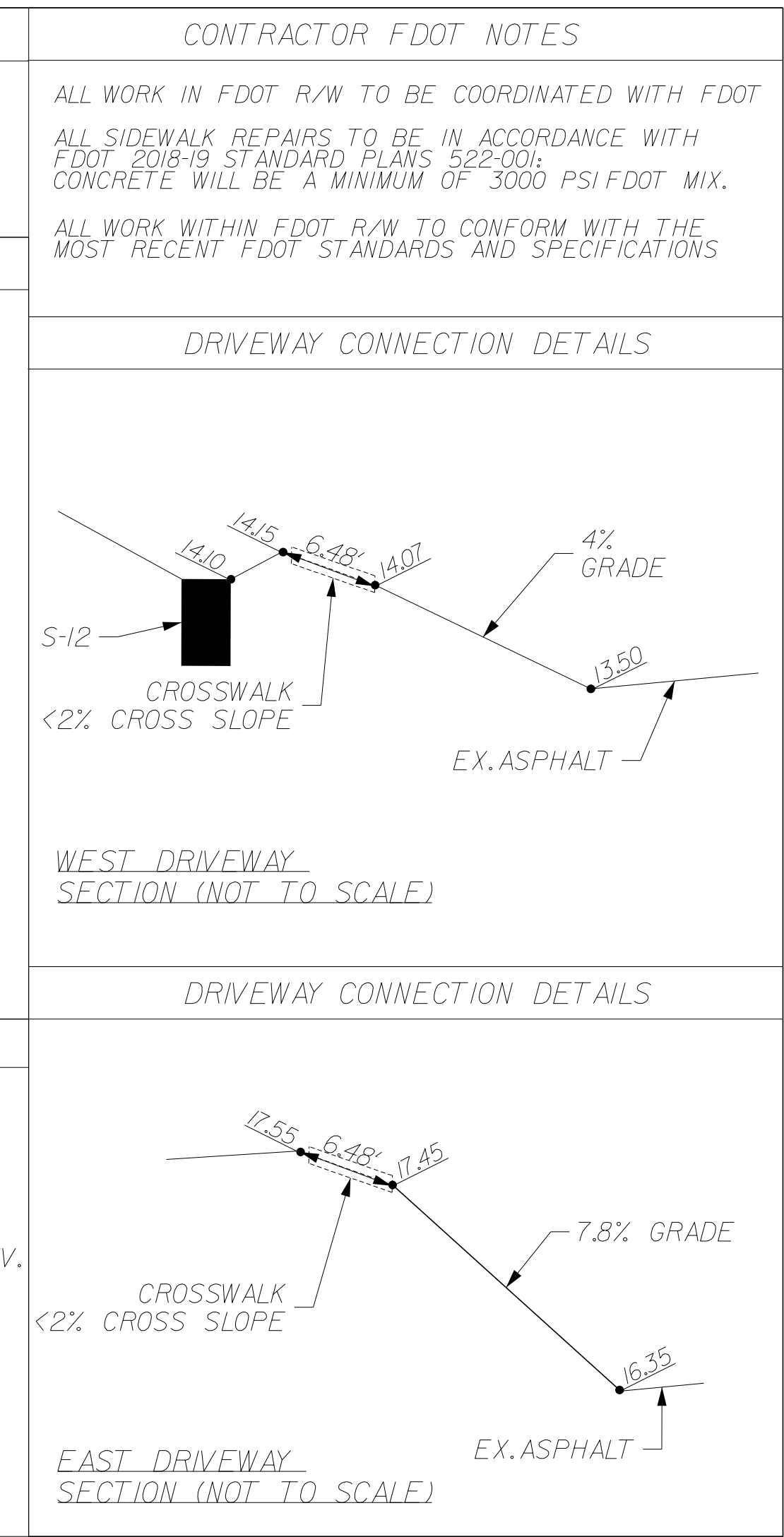
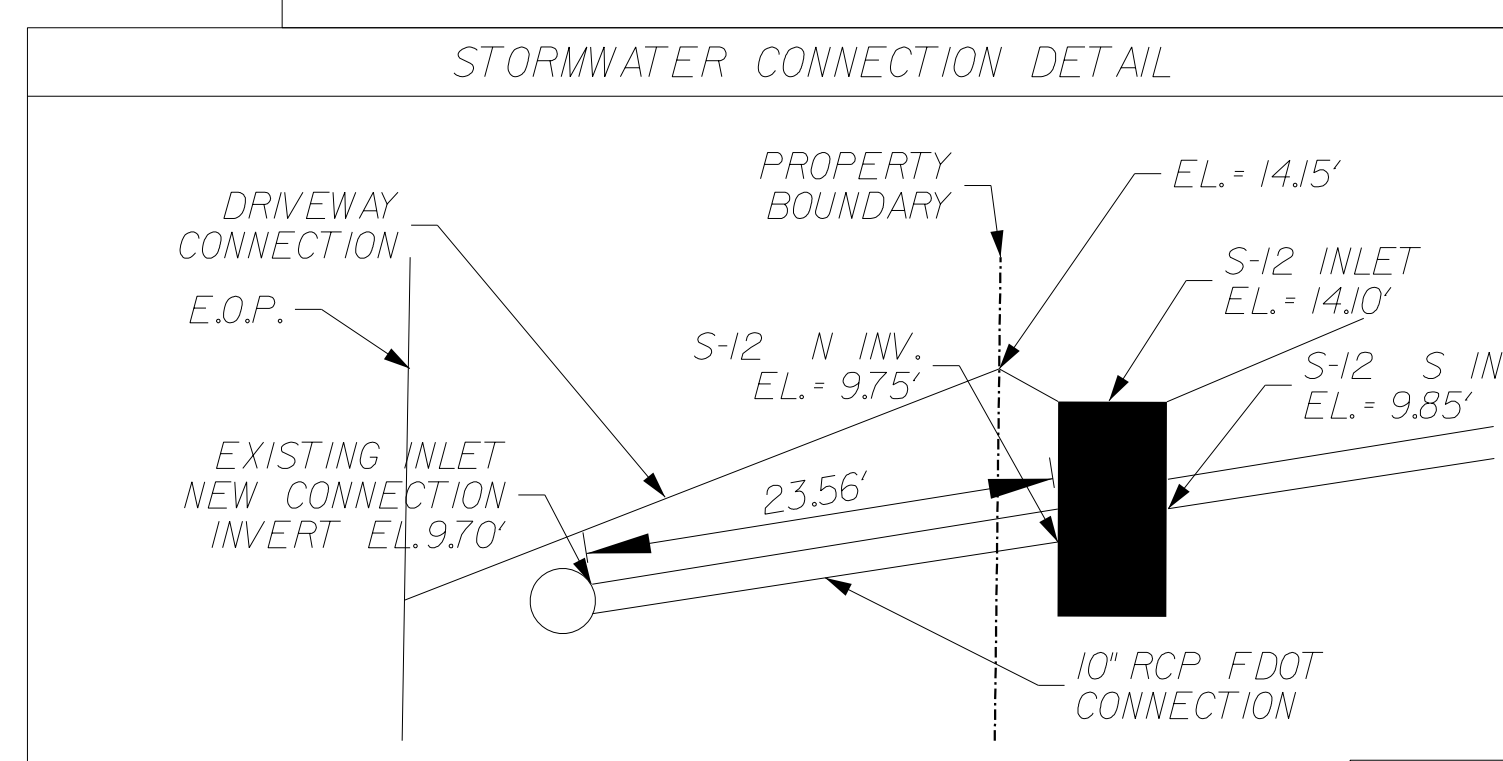
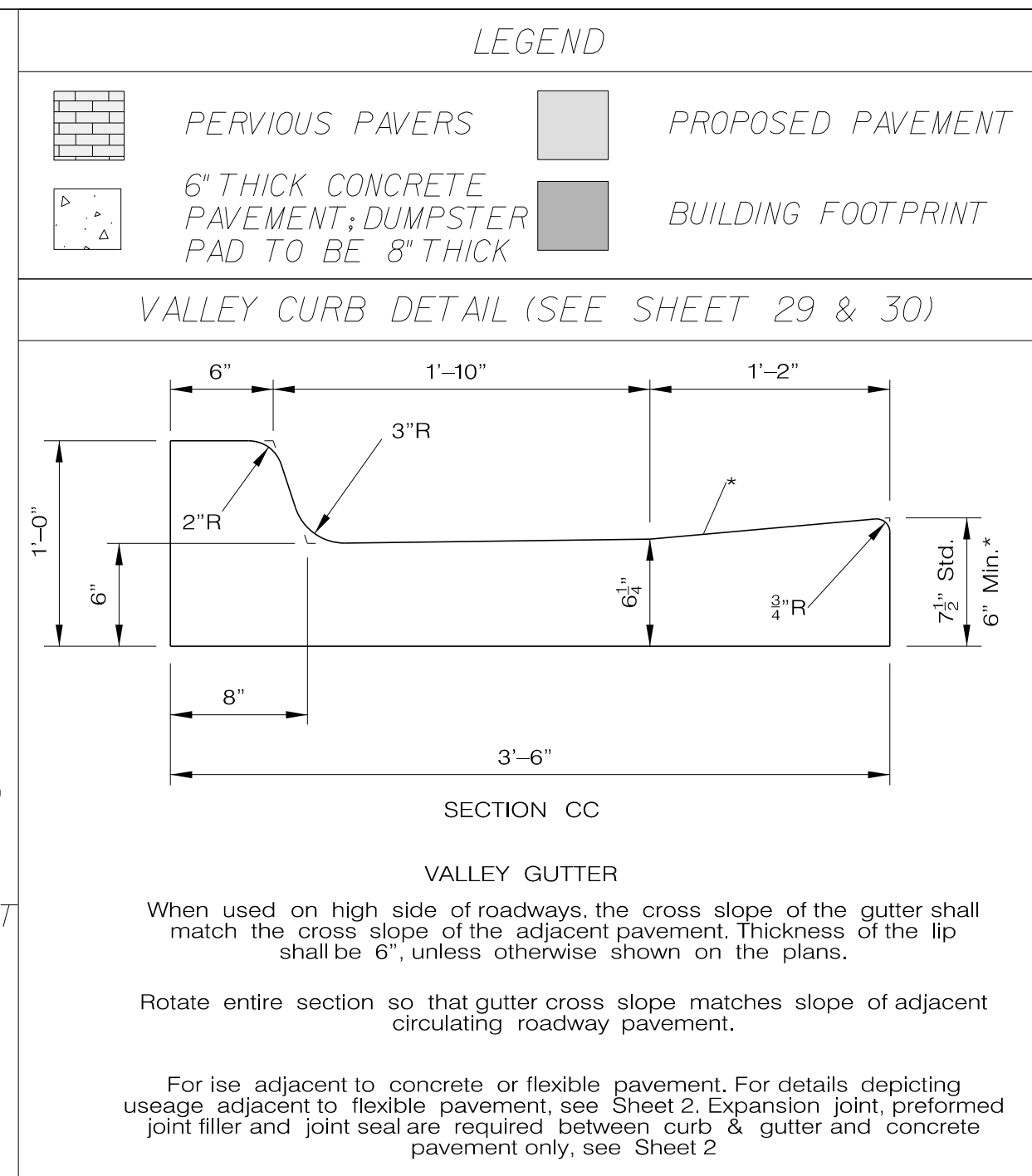
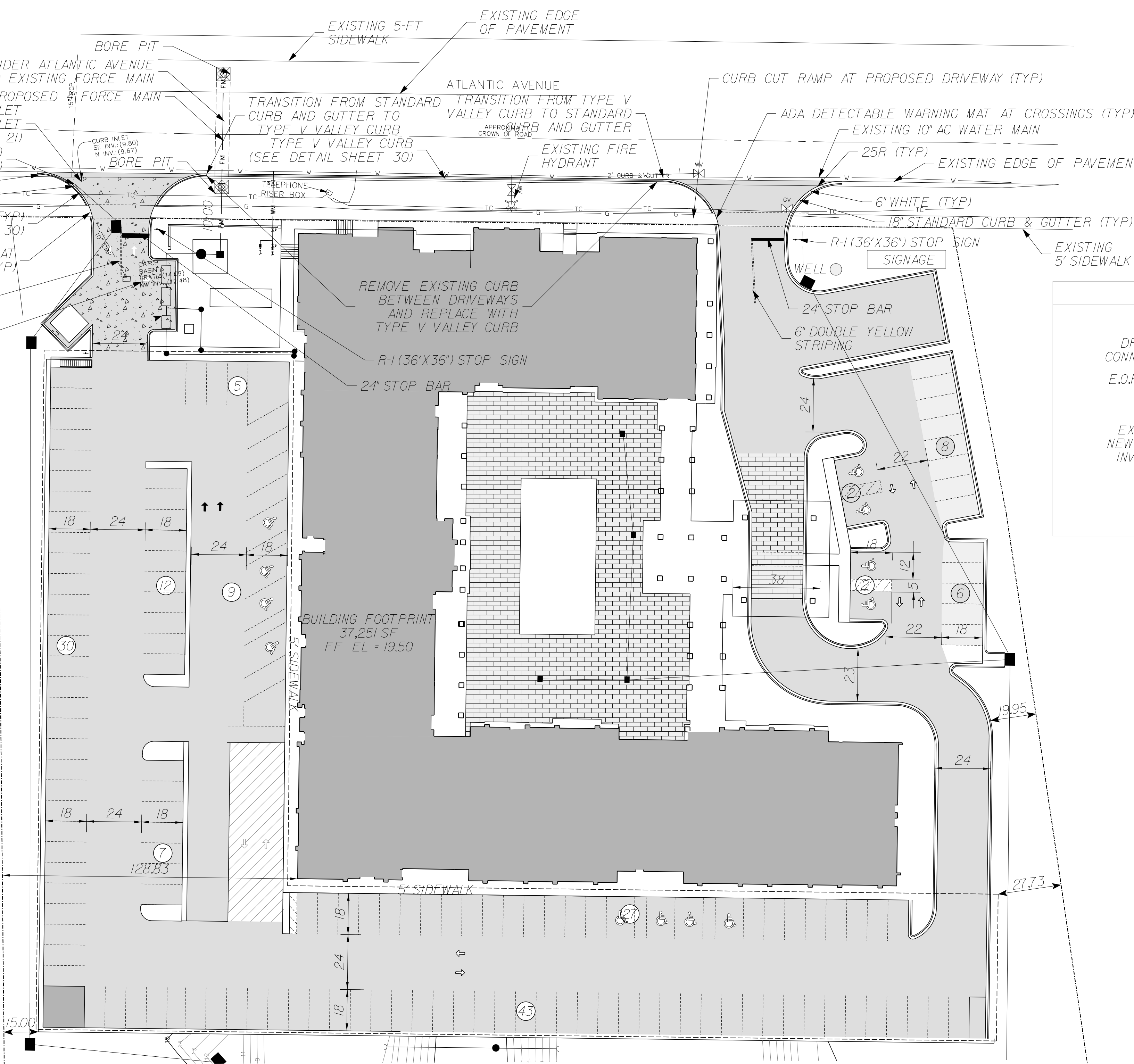
THE COMPASS
GROUP

COURTYARD/SPRINGHILL
DUAL BRAND

BELOW GRADE
GEOMETRY PLAN

Registered Professional

SHEET NO. GE-1
5 of 30
Issue Date SEPTEMBER 27, 2018
Project No. 18-10.27



K			
J			
I			
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G			
F			
E	NG	3-14-19	Revised to address FDOT comments
D	NG	1-14-19	Revised to add irrigation meter/new FDOT
C	NG	2-15-19	Revised to address City of FB comments
B	NG	2-5-19	Revised to address City of FB comments
A	NG	11-26-18	Revised to address City of FBS/JRWMD comments
No.	By	Date	Revision

Scale: 1" = 30'	
Project Mgr: NG	Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034
Designed by: NG	
Drawn by: BM	Certificate of Authorization No. 9332
QA/QC: AG	
3	DO NOT SCALE THIS DRAWING - DIMENSIONS AND NOTES TAKE PREFERENCE. DRAWING IS REDUCED IF LESS THAN 22" x 34"

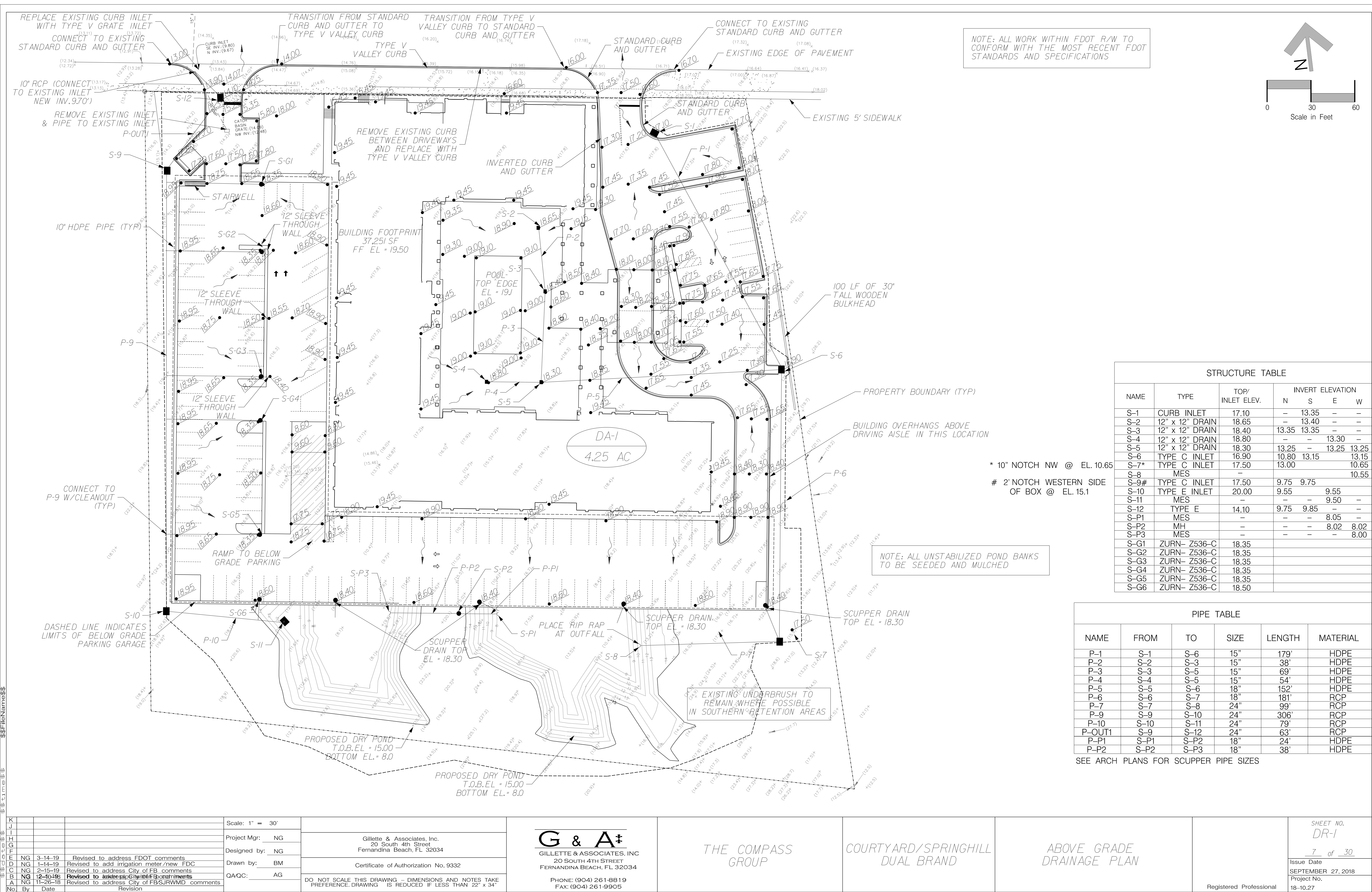
G & A⁺
GILLETTE & ASSOCIATES, INC.
20 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034
PHONE: (904) 261-8819
FAX: (904) 261-9905

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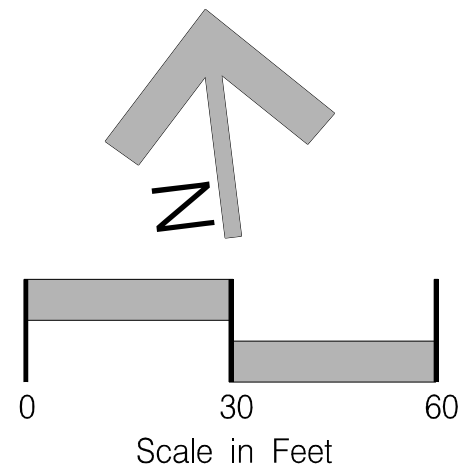
COURTYARD/SPRINGHILL
DUAL BRAND

FDOT UTILITY AND
GEOMETRY PLAN

	SHEET NO. GE-3 <u>6</u> of <u>30</u>
Issue Date	SEPTEMBER 27, 2018
Project No.	18-10.27



NOTE: ALL WORK WITHIN FDOT R/W TO CONFORM WITH THE MOST RECENT FDOT STANDARDS AND SPECIFICATIONS



STRUCTURE TABLE

NAME	TYPE	TOP/ INLET ELEV.	INVERT ELEVATION			
			N	S	E	W
S-1	CURB INLET	17.10	-	13.35	-	-
S-2	12" x 12" DRAIN	18.65	-	13.40	-	-
S-3	12" x 12" DRAIN	18.40	13.35	13.35	-	-
S-4	12" x 12" DRAIN	18.80	-	-	13.30	-
S-5	12" x 12" DRAIN	18.30	13.25	-	13.25	13.25
S-6	TYPE C INLET	16.90	10.80	13.15	-	13.15
S-7*	TYPE C INLET	17.50	13.00	-	-	10.65
S-8	MES	-	-	-	-	10.55
S-9#	TYPE C INLET	17.50	9.75	9.75	-	-
S-10	TYPE E INLET	20.00	9.55	-	9.55	-
S-11	MES	-	-	-	9.50	-
S-12	TYPE E	14.10	9.75	9.85	-	-
S-P1	MES	-	-	-	8.05	-
S-P2	MH	-	-	-	8.02	8.02
S-P3	MES	-	-	-	-	8.00
S-G1	ZURN- Z536-C	18.35	-	-	-	-
S-G2	ZURN- Z536-C	18.35	-	-	-	-
S-G3	ZURN- Z536-C	18.35	-	-	-	-
S-G4	ZURN- Z536-C	18.35	-	-	-	-
S-G5	ZURN- Z536-C	18.35	-	-	-	-
S-G6	ZURN- Z536-C	18.50	-	-	-	-

* 10" NOTCH NW @ EL. 10.65
2' NOTCH WESTERN SIDE OF BOX @ EL. 15.1

NOTE: ALL UNSTABILIZED POND BANKS TO BE SEEDED AND MULCHED

PIPE TABLE

NAME	FROM	TO	SIZE	LENGTH	MATERIAL
P-1	S-1	S-6	15"	179'	HDPE
P-2	S-2	S-3	15"	38'	HDPE
P-3	S-3	S-5	15"	69'	HDPE
P-4	S-4	S-5	15"	54'	HDPE
P-5	S-5	S-6	18"	152'	HDPE
P-6	S-6	S-7	18"	181'	RCP
P-7	S-7	S-8	24"	99'	RCP
P-9	S-9	S-10	24"	306'	RCP
P-10	S-10	S-11	24"	79'	RCP
P-OUT1	S-9	S-12	24"	63'	RCP
P-P1	S-P1	S-P2	18"	24'	HDPE
P-P2	S-P2	S-P3	18"	38'	HDPE

SEE ARCH PLANS FOR SCUPPER PIPE SIZES

K			
J			
I			
H			
G			
F			
E	NG	3-14-19	Revised to address FDOT comments
D	NG	1-14-19	Revised to add irrigation meter/new FDC
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Gillette & Associates, Inc. 20 South 4th Street Fernandina Beach, FL 32034
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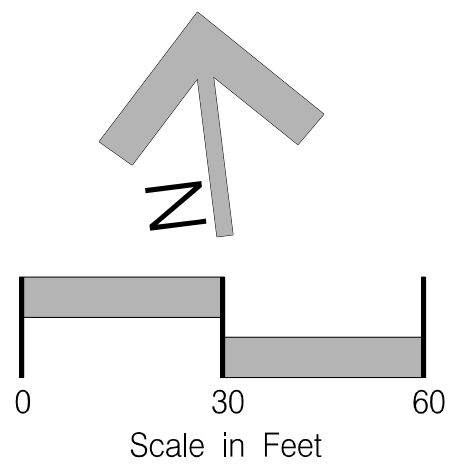
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THE COMPASS GROUP

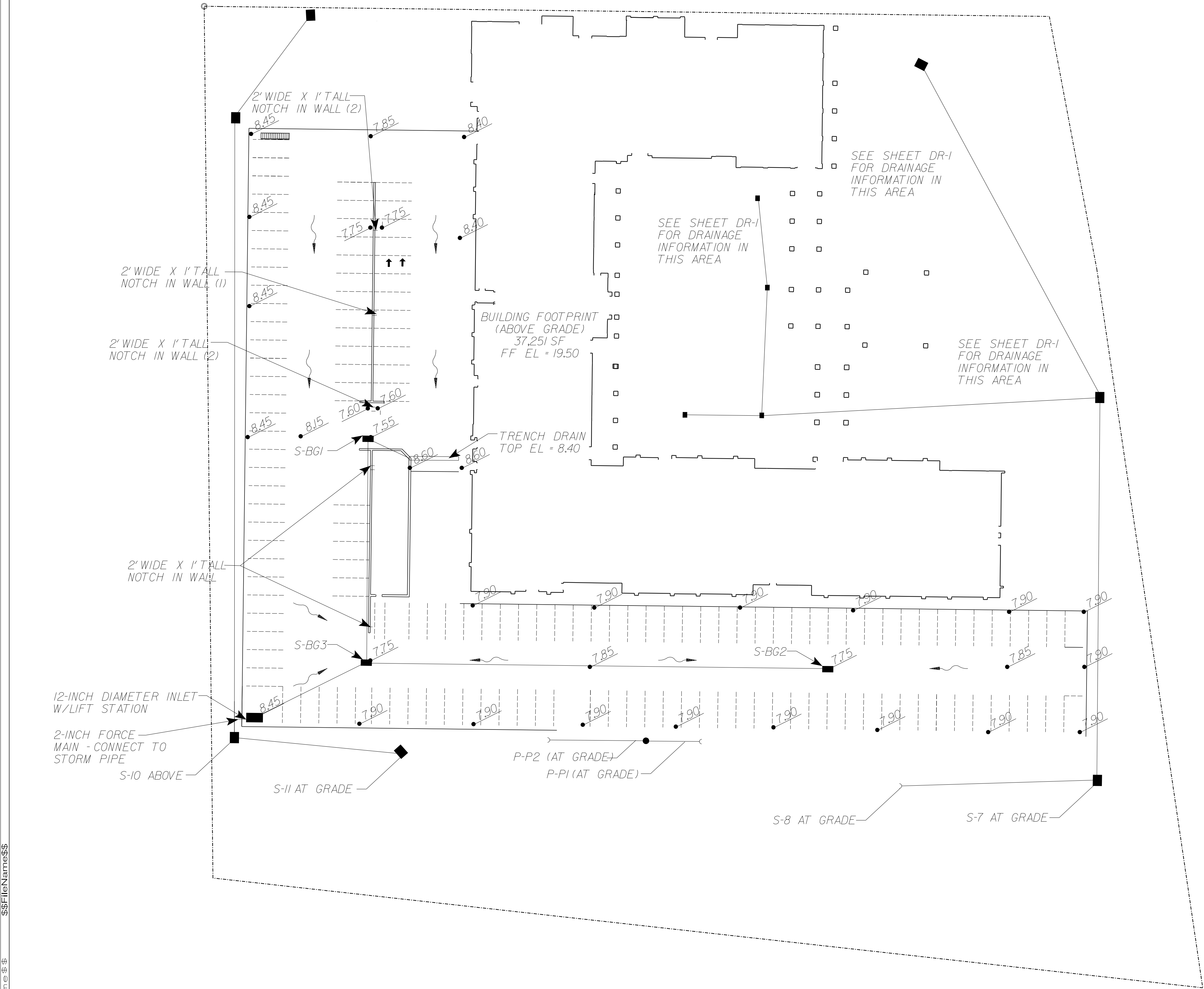
COURTYARD/SPRINGHILL DUAL BRAND

ABOVE GRADE DRAINAGE PLAN

SHEET NO. DR-1
7 of 30
Issue Date SEPTEMBER 27, 2018
Project No. 18-10.27
Registered Professional



STRUCTURE TABLE						
NAME	TYPE	TOP/ INLET ELEV.	INVERT ELEVATION			
			N	S	E	W
S-BG1	ZURN- Z536-C	7.55	TO BE SET BY CONTRACTOR			
S-BG2	ZURN- Z536-C	7.75				
S-BG3	ZURN- Z536-C	7.75				
TRENCH	24" ZURN Z-886 HD DGC	8.40				
LIFT	LIFT STATION	8.45				



No.	By	Date	Revision
K			
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Gillette & Associates, Inc.
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20 SOUTH 4TH STREET
FERNANDINA BEACH, FL 32034

THE COMPASS GROUP

COURTYARD/SPRINGHILL
DUAL BRAND

BELOW GRADE
DRAINAGE PLAN

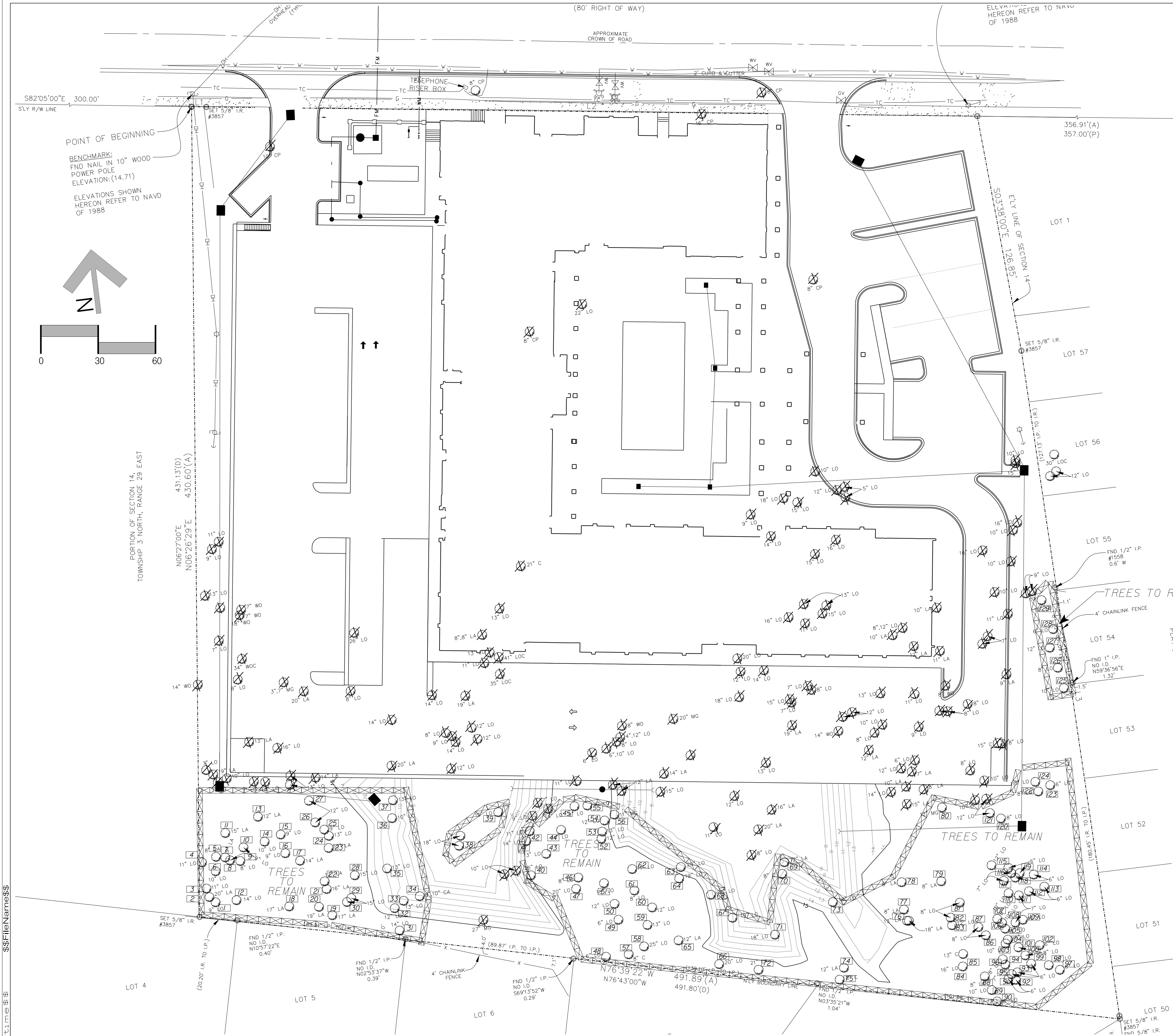
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SHEET NO.
DR-2

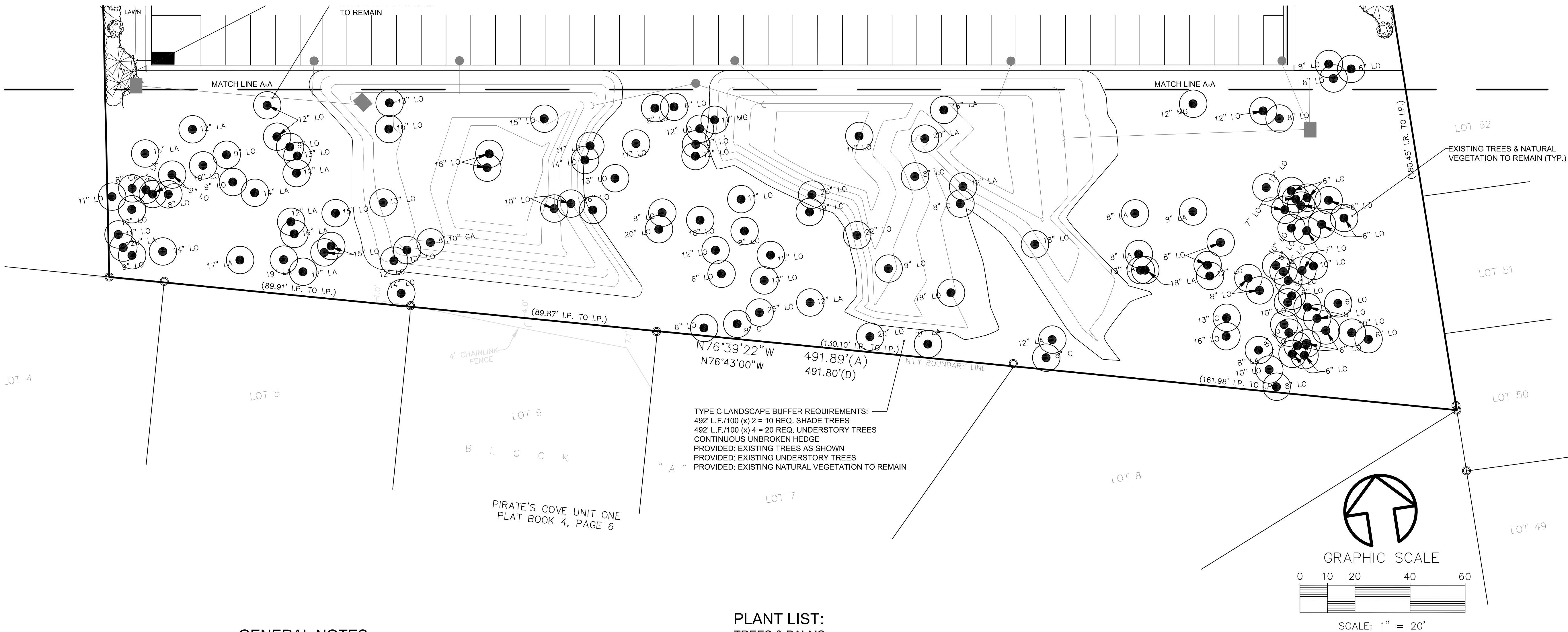
8 of 30

Issue Date
SEPTEMBER 27, 2018

Project No.
18-10-27



Project Name										City of Fernandina Beach Tree Inventory																			
Tree ID										DBH										Species									
Health (1-5)										DBH w Credits										Retained (Y or N)									
DBH Retained with Credits										Comment																			
1	9	LO	2	13.5	Y	13.5	leaves			67	19	LO	4																
2	1	LAU	4			0	hollow			68	12	LO	1																
3	11	LO	2	16.5	Y	16.5	leaves			69	12	LAU	1																
4	11	LO	4			0	top gone			70	8	C	1																
5	8	BAY	3	12	Y	12	leaves			71	18	LO	1																
6	6	LO	3	8	Y	8	leaves hollow			72	21	LAU	1																
7	9	LAU	4			0	decay			73	18	LO	1																
8	9	LO	1	13.5	Y	13.5	0			74	18	LO	1																
9	8	LO	2	12	Y	12	crooked			75	8	C	1																
10	9	LO	2	13.5	Y	13.5	bent			76	13	LAU	4																
11	35	LAU	4			0	hollow bottom			77	38	LAU	4																
12	14	LO	1	28	Y	28	0			78	8	LAU	2																
13	12	LAU	3	18	Y	18	some decline			79	8	LAU	1																
14	10	LO	4			0	split side			80	12	MAG	1																
15	9	LO	1	13.5	Y	13.5	0			81	8	LO	1																
16	9	0	5			0	Dead			82	8	LO	1																
17	14	LAU	4			0	decay at the base			83	13	LAU	4																
18	17	LAU	4			0	hollow at the base			84	16	LO	1																
19	17	LAU	5	34	Y	34	some decay and forked			85	13	C	1																
20	19	LAU	4			0	hollow			86	8	LO	1																
21	16	LAU	2	32	Y	32	leaves			87	8	LO	1																
22	12	LAU	2	18	Y	18	leaves			88	10	LO	1																
23	12	LAU	2	18	Y	18	minor uprooting-erosion			89	8	LAU	4																
24	13	LO	1	19.5	Y	19.5	0			90	8	LO	1																
25	9	LO	2	13.5	Y	13.5	1 dead branch			91	6	LO	1																
26	12	LO	2	18	Y	18	bent over			92	6	LO	1																
27	12	LO	1	16	Y	16	0			93	6	LO	1																
28	15	LO	1	30	Y	30	0			94	6	LO	1																
29	15	LO	1	30	Y	30	0			95	7	LO	1																
30	15	LO	1	30	Y	30	0			96	12	LO	1																
31	14	LO	1	28	Y	28	0			97	6	LO	1																
32	12	LO	1	18	Y	18	0			98	10	LO	1																
33	13	LO	1	19.5	Y	19.5	0			99	6	LO	1																
34	10	CAM	5			0	invasive species			100	8	LO	1																
35	13	LO	1	19.5	Y	19.5	0			101	8	LO	1																
36	10	LO	1	15	Y	15	0			102	6	LO	1																
37	13	LO	1	19.5	Y	19.5	0			103	10	LO	1																
38	18	LO	1	36	Y	36	0			104	6	LO	1																
39	15	LO	1	30	Y	30	0			105	8	LO	1																
40	26	LO	1	78	Y	78	0			106	10	LO	1																
41	14	LO	1	28	Y	28	0			107	8	LO	1																
42	11	LO	1	16.5	Y	16.5	0			108	7	LO	1																
43	13	LO	3	19.5	Y	19.5	0			109	10	LO	1																
44	11	LO	1	16.5	Y	16.5	0			110	10	LO	1																
45	9	LO	3	13.5	Y	13.5	sparse crown			111	7	LO	1																
46	8	0	5			0	Dead			112	6	LO	1																
47	20	LO	2	60	Y	60	bent over			113	6	LO	1																
48	26	LO	3	78	Y	78	some decay but could be saved (dbi on map was 6")			114	6	LO	1																
49	6	LO	5			0	Dead			115	7	LO	1																
50	12	LO	1	18	Y	18	0			116	7	LO	1																
51	18	LO	2	36	Y	36	leaves			117	7	LO	1																
52	12	LO	1	16	Y	16	0			118	18	LO	1																
53	13	LO	1	19.5	Y	19.5	0			119	8	LO	2																
54	12	LO	3	18	Y	18	decay at the base			120	12	LO	1																
55	6	LO	1	6	Y	6	0			121	8	LO	1																
56	11	MAG	2	16.5	Y	16.5	0			122	6	LO	1																
57	8	C	3	12	Y	12	overtopped cedar			123	8	LO	1																
58	25	LAU	3	75	Y	75	ladiabase			124	7	LO	1																
59	13	LO	2	19.5	Y	19.5	0			125	7	LO	1																
60	12	LO	4			0	broken			126	7	LO	1																
61	8	LO	1	12	Y	12	0			127	7	LO	1																
62	11	LO	1	16.5	Y	16.5	0			128	7	LO	1																
63	20	LO	2	60	Y	60	roots exposed from erosion			129	7	LO	1																
64	19	LO	1	38	Y	38	0			Health Status										2033.5									
65	12	LAU	4			0	log broke			2033.5										2033.5									
66	20	LO	1	60	Y	60	0			2033.5										2033.5									
										Regulated 25% Required										Mitigation									
										Count					Trees Removed														
										DBH (in)																			
										144					144														
										1772					443														
										Total Trees Retained (Regulated)																			
															107					1,188									
																				3,806									
																				3,363									



GENERAL NOTES:

-The Landscape Contractor is to locate and verify all underground and overhead utilities prior to beginning work. Contact proper utility companies and / or General Contractor prior to digging for field verification. The City shall not be responsible for any damages to utility or irrigation lines.

-Landscape Contractor is to verify all current drawings and check for discrepancies and bring to the attention of the Landscape Architect prior to commencing with the work.

-All unattended and unplanted tree pits are to be properly barricaded and flagged during installation.

-All planting plans are issued as directives for site layout. Any deviations and site changes are to be brought to the attention of the Landscape Architect for clarification prior to installation.

- In the event mechanical equipment is installed on the site in a different area than shown on the plans or if mechanical equipment is added that is not shown on the plans it shall be fully screened by either fencing or vegetation or a combination of both.

PLANTING NOTES:

(See plant specification and details for additional standards)

-All plant material is to be Florida Number 1 or better pursuant to the Florida Department of Agriculture's Grades and Standards for Nursery Plants.

- All trees within lawn areas shall have a 48" diameter mulch ring.

- Sod is to be grade "A" weed free.

- All areas marked "LAWN" shall be sodded with SeaDwarf Seashore Paspalum solid sod. See limit on plan.

All sod is to be laid level, tight, and cut even along planting beds.

- All plants are to be top dressed with a minimum of 3"-inch layer of shredded hardwoods mulch, Grade A or equal.

-Planting plans shall take precedence over plant list in case of discrepancies.

- All changes to plant materials and locations must be approved by the City of New Smyrna Beach.

- Landscape Contractor is responsible for providing their own square footage takeoffs and field verifications for 100% sod coverage for all areas specified.

- All landscape areas are to be provided with automatic sprinkler system which will provide 100% coverage, and 50% overlap.

- Trees are to be planted within parking islands after soil is brought up to grade. Deeply set root balls are not acceptable. (REFER TO PLANTING DETAILS)

- A clear zone free of obstruction must be maintained around all fire hydrants. The clear zone must be 7'-6" in front of and to the sides of fire hydrants, with a 4' clear zone to the rear. Fire Department connections shall have a clear zone of 7'-6" in front & to the sides.

PLANT LIST:

TREES & PALMS:

QUAN.	KEY	BOTANICAL/COMMON NAME	DESCRIPTION
2	CH	Chamaerops humilis	4' o.a. ht.
		EUROPEAN FAN PALM	(3) Trunks min. 25 gal.
57	CP	Sabal palmetto	18' o.a. ht., unless otherwise noted
		CABBAGE PALM	10" caliper min. B&B
5	GM	Gardenia jasminoides 'Miami Supreme'	6'ht.x 5' spr.
		GARDENIA STD.	25 gal.
13	LJ	Ligustrum japonicum	8'ht.x 6'spr. (5) Trunks min.
		GLOSSY PRIVET	6" Combined caliper min. B&B
21	MC	Myrica cerifera	8'ht.x 5' spr. (5) Trunks min.
		WAX MYRTLE	6" combined caliper min. f.g.
22	NC	Nerium oleander	6'ht.x 5' spr.
		PINK OLEANDER STD.	25 gal.
16	PD	Phoenix dactylifera 'Medjool'	14' c.t. Matched Height
		MEDJOOL PALM	B&B Specimen
3	QV	Quercus virginiana	12'ht.x 5'spr.
		LIVE OAK	2.5" DBH min. 65 gal.
6	RIM	Raphiolepis indica 'Majestic Beauty'	5' o.a. ht.
		INDIAN HAWTHORN STD.	15 gal.
11	TF	Trachycarpus fortunei	6' o.a. matched ht.
		WINDMILL PALM	Single Trunk; f.g.
4	WR	Washington robusta	14' o.a. matched ht., unless otherwise noted
		WASHINGTON PALM	10" Diam. min. B&B

GROUND COVER:

433	AN	Annuals	6" pots w/osmocote
		(SEASONAL FLOWERS)	18" o.c.
30	AE	Aspidistra elatior 'Milky Way'	1 gal.
		MILKYWAY CAST IRON PLANT	20" o.c.
76	AZ	Liriope spp.	1 gal. full
		AZTEC GRASS	(12) Bibs min. 20" o.c.
278	BF	Bulbine frutescens 'Hallmark'	1 gal. full
		ORANGE BULBINE	(12) Bibs min. 20" o.c.
108	DTV	Dianella tasmanica 'Variegata'	1 gal. full
		VARIEGATED FLAX LILY	30" o.c.
130	HD	Helianthus debilis	1 gal. full
		DUNE SUNFLOWER	20" o.c. full
45	JC	Juniperus conferta	1 gal. full
		SHORE JUNIPER	20" o.c.

TREE MITIGATION DATA:

SEE CIVIL SET, SHEET LS-1 FOR CALCULATIONS

DECORATIVE PLANTERS:

MANUF: OLD TOWN FIBERGLASS OR EQUAL

EMAIL: Oldtownfiberglass.com

STYLE: Mediterranean Rectangle Model#: MT1203232 w/Internal Reservoir (self-watering)

STYLE: Mediterranean Round Model#: MT6036 w/Internal Reservoir (self-watering)

SHRUBS:

40	CEB	Colocassia esculenta 'Black Coral'	20"ht.x 20" spr.
		BLACK CORAL COLOCASSIA	3 gal.
30	CEG	Colocassia esculenta 'Maui Gold'	20"ht.x 20" spr.
		MAUI GOLD COLOCASSIA	3 gal.
7	CF	Cordyline fruticosa 'Florida'	30"ht.x 12" spr.
		FLORICA CORDYLINE	7 gal.
2	CR	Cycas revoluta	36"ht.x 36" spr.
		KING SAGO	10 gal.
4	CS	Cupressus sempervirens	6'ht.x 12" spr.
		ITALIAN CYPRESS	15 gal.
49	CT	Canna indica 'Phasion'	30"ht.x 12" spr.
		TROPICANNA CANNA	7 gal.
50	FJV	Fatsia japonica 'Variegata'	20"ht.x 20" spr.
		VAR. FATSIA	3 gal.
3	JT	Juniperus chinensis 'Torulosa'	6' o.a. ht.
		HOLLYWOOD JUNIPER	15 gal.
123	LC	Loropetalum chinensis 'Plum'	20"ht.x 20" spr.
		PLUM LORPETALUM	3 gal. 30" o.c.
103	MH	Muhly capillaris	30"ht.x 20"spr.
		MUHLI GRASS	3 gal. 36" o.c.
219	ND	Nerium oleander 'Petite Pink'	20"ht.x 20" spr.
		DWARF PINK OLEANDER	3 gal. 30" o.c.
71	PM	Podocarpus macrophyllus	5'ht.x 36" spr.
		JAPANESE YEW	15 gal. 36" o.c.
68	PMP	Podocarpus macrophyllus 'Pringles'	30"ht.x 30" spr.
		DWF. JAPANESE YEW	7 gal. 36" o.c.
255	PV	Pittosporum tobira 'Variegata'	20"ht. x 20" spr.
		VARIEGATED PITTOSPORUM	3 gal. 30" o.c.
2	RE	Rhapis excelsa	5' o.a. ht.; Shade Grown
		LADY PALM	15 gal.
112	RI	Raphiolepis indica 'Alba'	18"ht. x 18" spr.
		WHITE INDIAN HAWTHORN	3 gal. 30" o.c.
135	SB	Spartina patens	30"ht.x 20"spr.
		SALTMEDAW CORDGRASS	3 gal. 36" o.c.
10	VS	Viburnum suspensum	24"ht.x 20" spr.
		SANDANKWA VIBURNUM	3 gal. 36" o.c.
As Req.	LAWN	SeaDwarf Seashore Paspalum	solid even sod

LANDSCAPE SITE DATA CHART:

SITE ACREAGE = 204,732 S.F. / 1500 S.F. = 136 REQ. TREES

TREES CREDITS AS FOLLOWS:

EXISTING TREES = 138 TREES

PROPOSED TREES = 37 TREES

(77) PROPOSED PALMS (3:1) = 26 TREES

TOTAL EXISTING & PROPOSED TREES PROVIDED ON SITE = 201 TREES

COURTYARD/SPRINGHILL
DUAL BRAND HOTEL
2700 ATLANTIC AVENUE
FERNANDINA BEACH, FLORIDA

REVISIONS:

CULLIVER
DESIGN, INC.

LANDSCAPE ARCHITECTURE

173 SUNTREE COURT

ORMOND BEACH, FL 32174

TEL 386-871-5293

EMAIL: culliverdesign@cfl.rr.com

MEMBER: AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

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TITLE: LANDSCAPE PLAN

DATE: 11-26-18

SCALE: 1"=20'-0"

DRAWING NO: 10 of 18

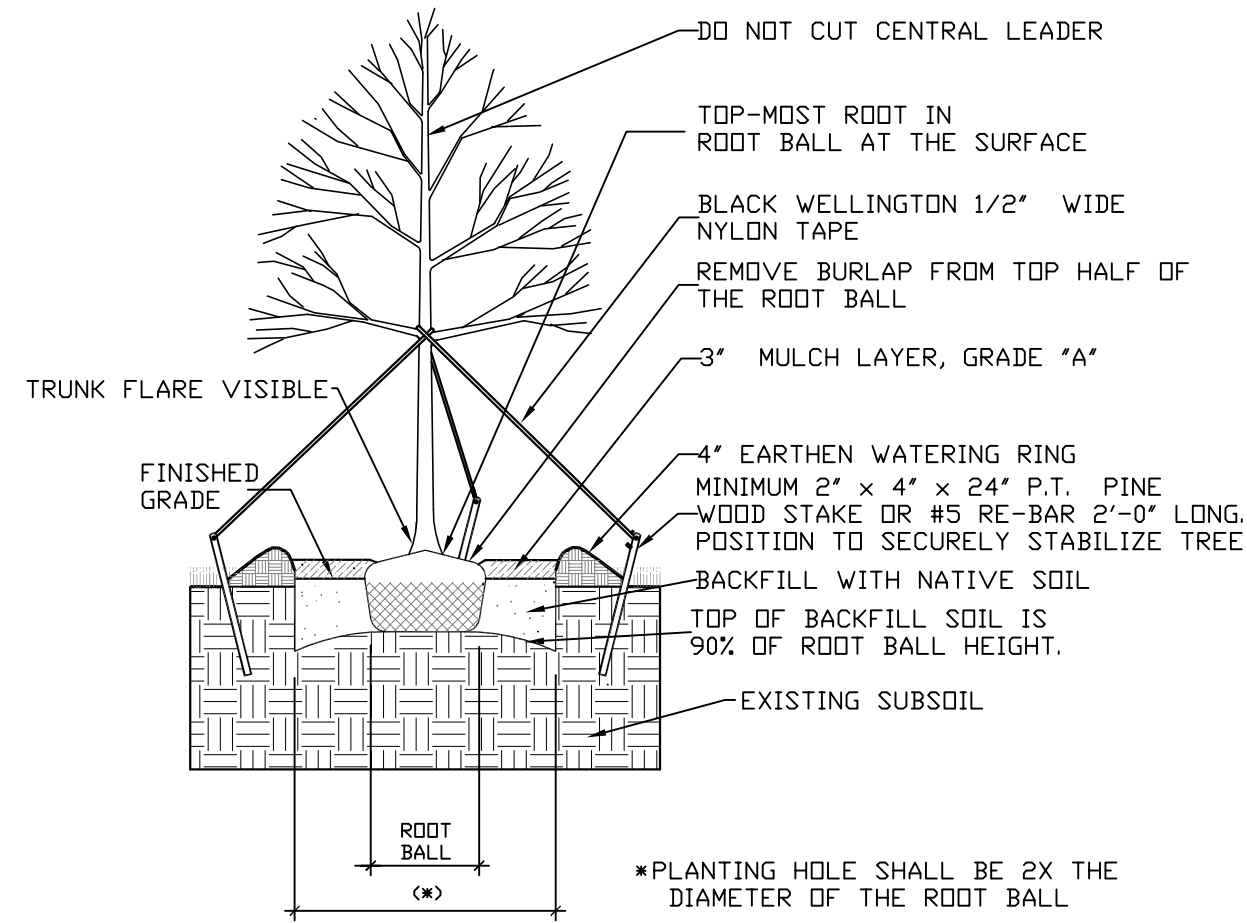
COURTYARD/SPRINGHILL
DUAL BRAND HOTEL
2700 ATLANTIC AVENUE
FERNANDINA BEACH, FLORIDA

REVISIONS:

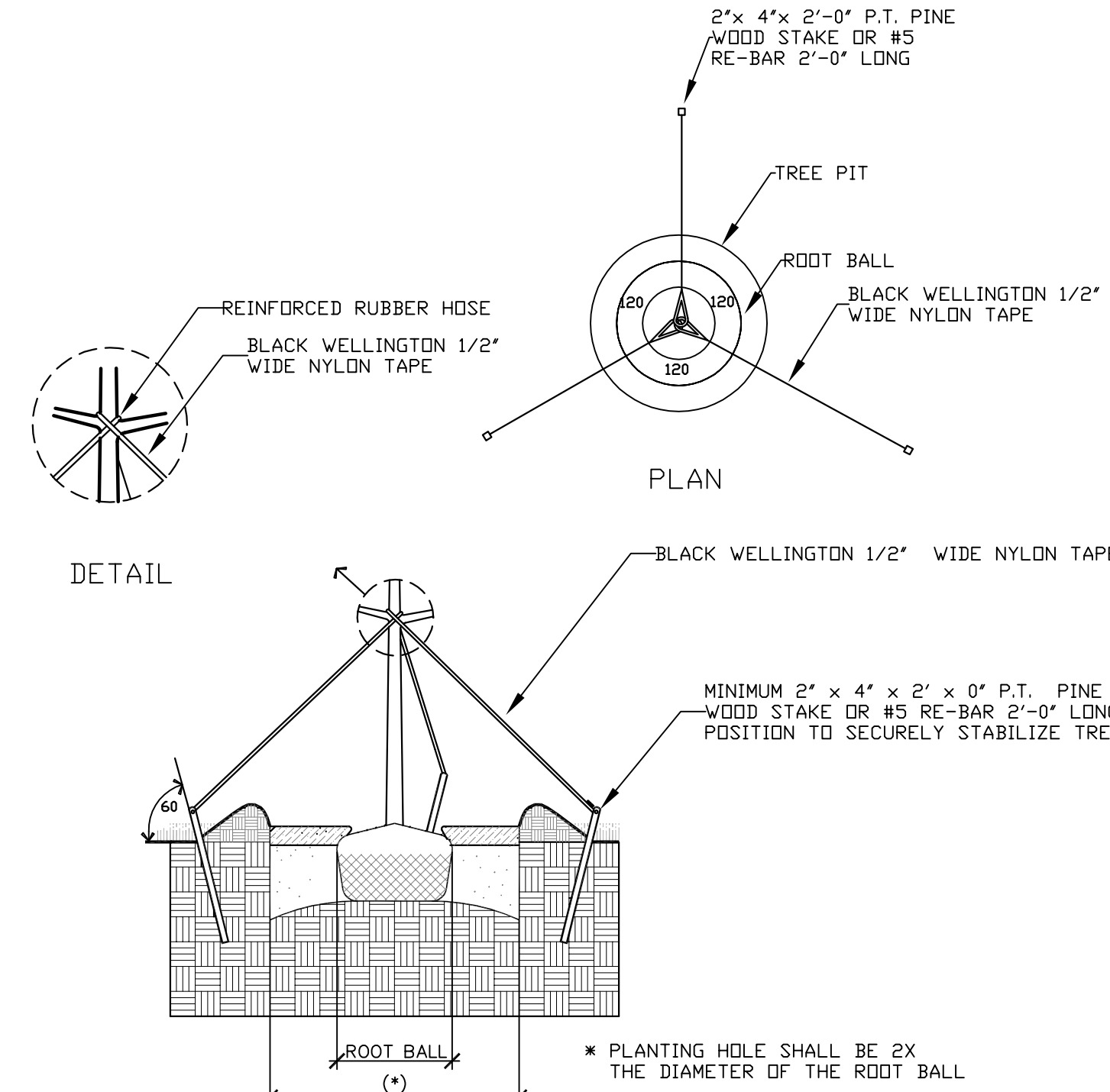
CULLIVER
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LANDSCAPE ARCHITECTURE
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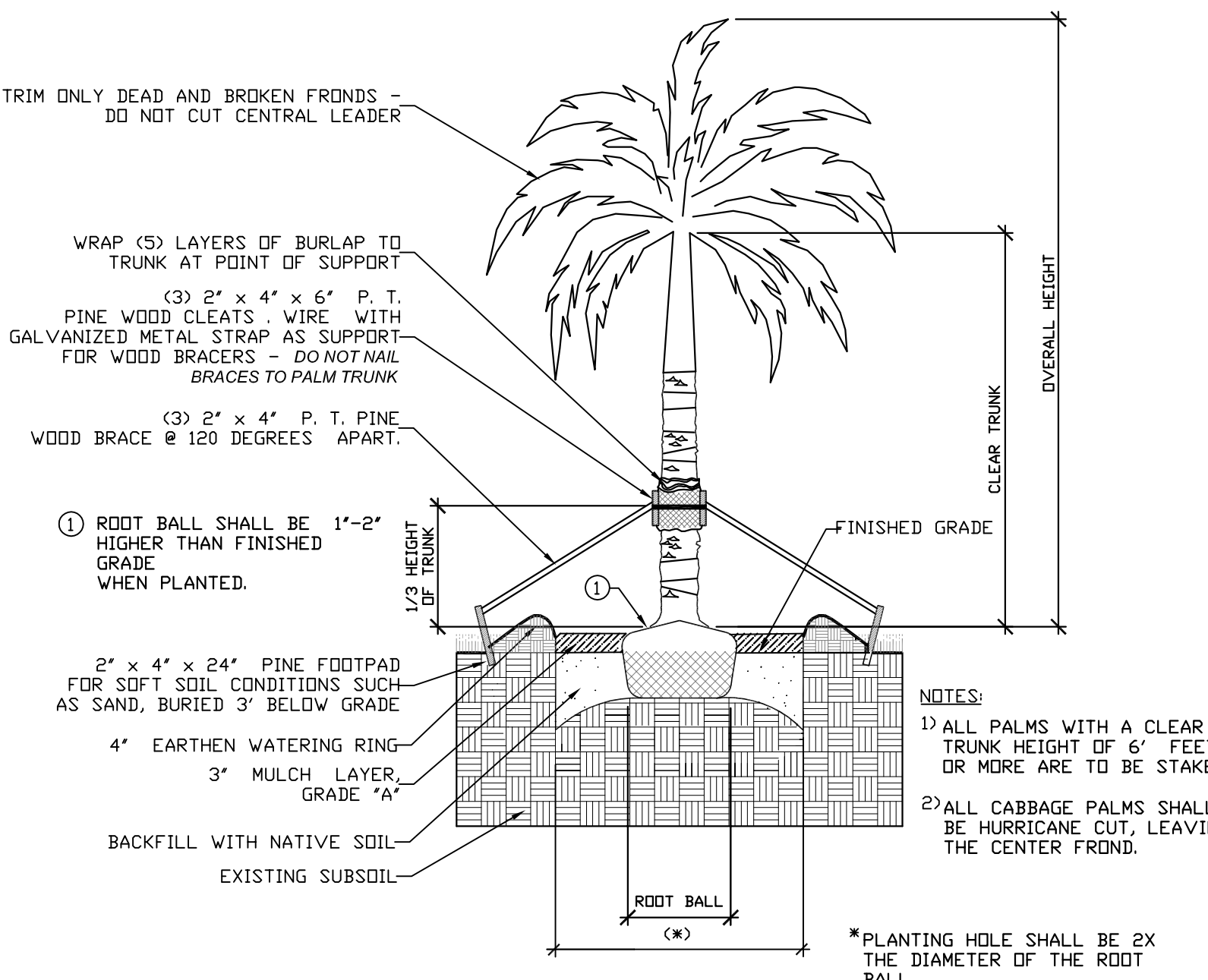
TITLE: LANDSCAPE DETAILS
DATE: 11-26-18
SCALE: N.T.S.
DRAWING NO: 11 of 18



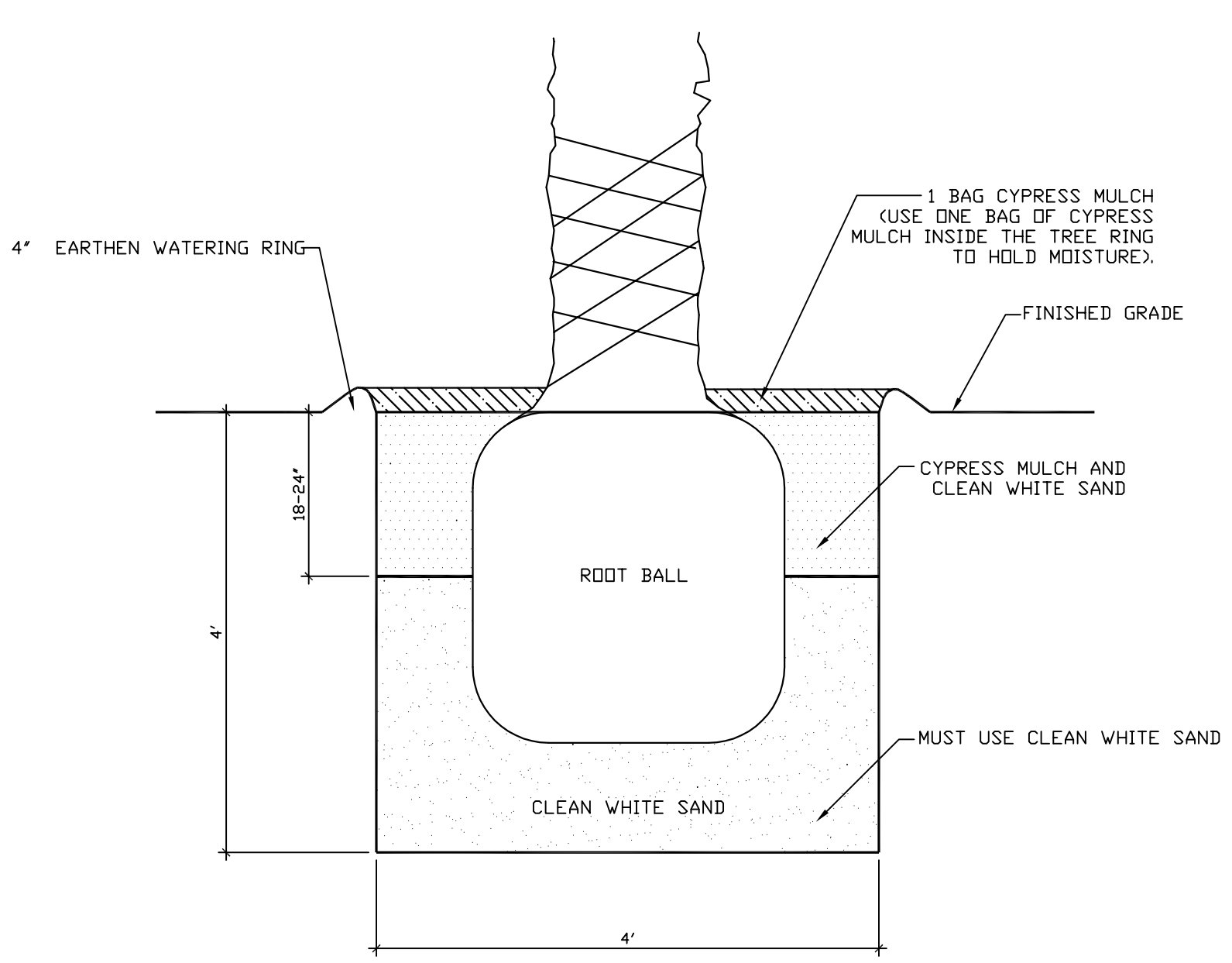
1 LARGE TREE PLANTING DETAIL



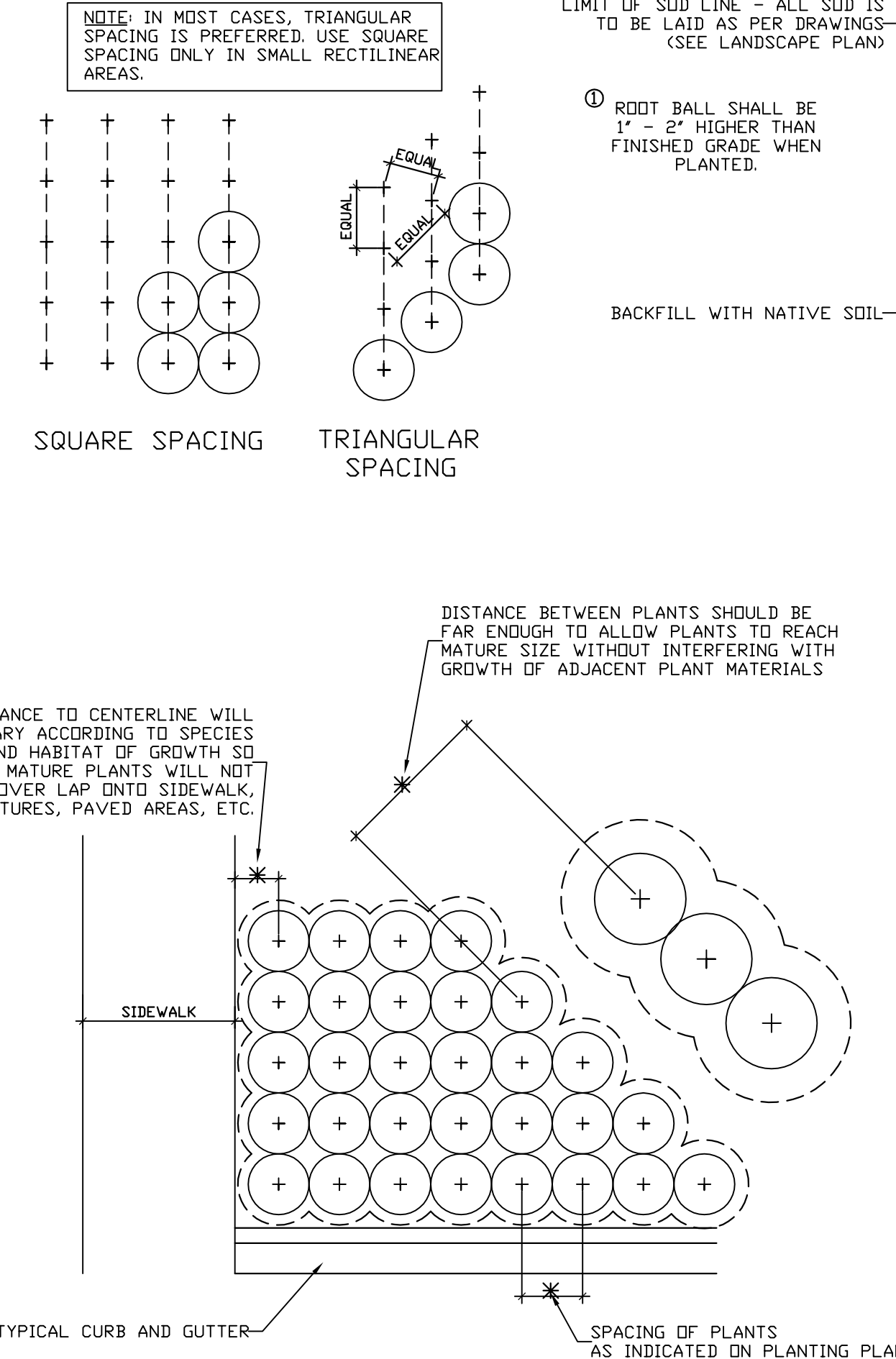
2 TYPICAL TREE GUYING DETAIL



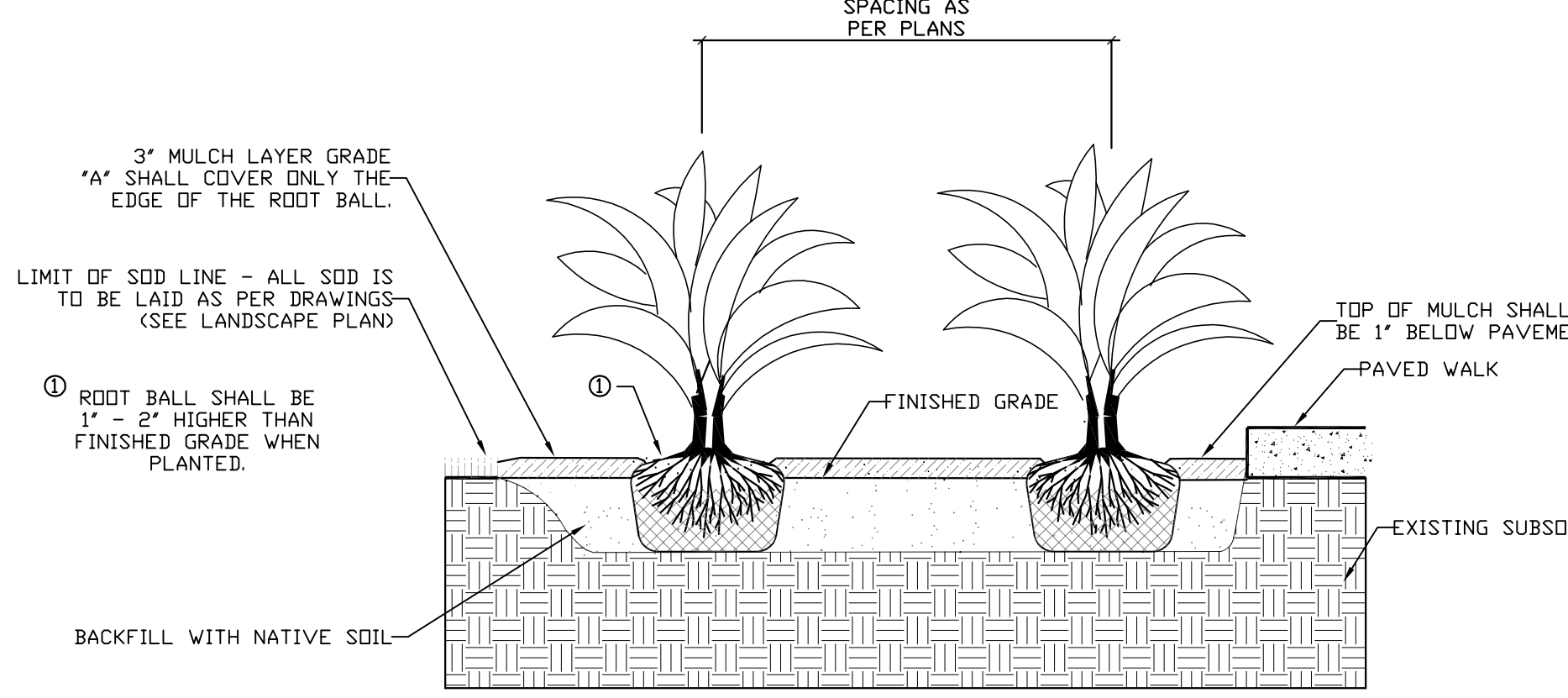
4 STRAIGHT TRUNK PALM DETAIL



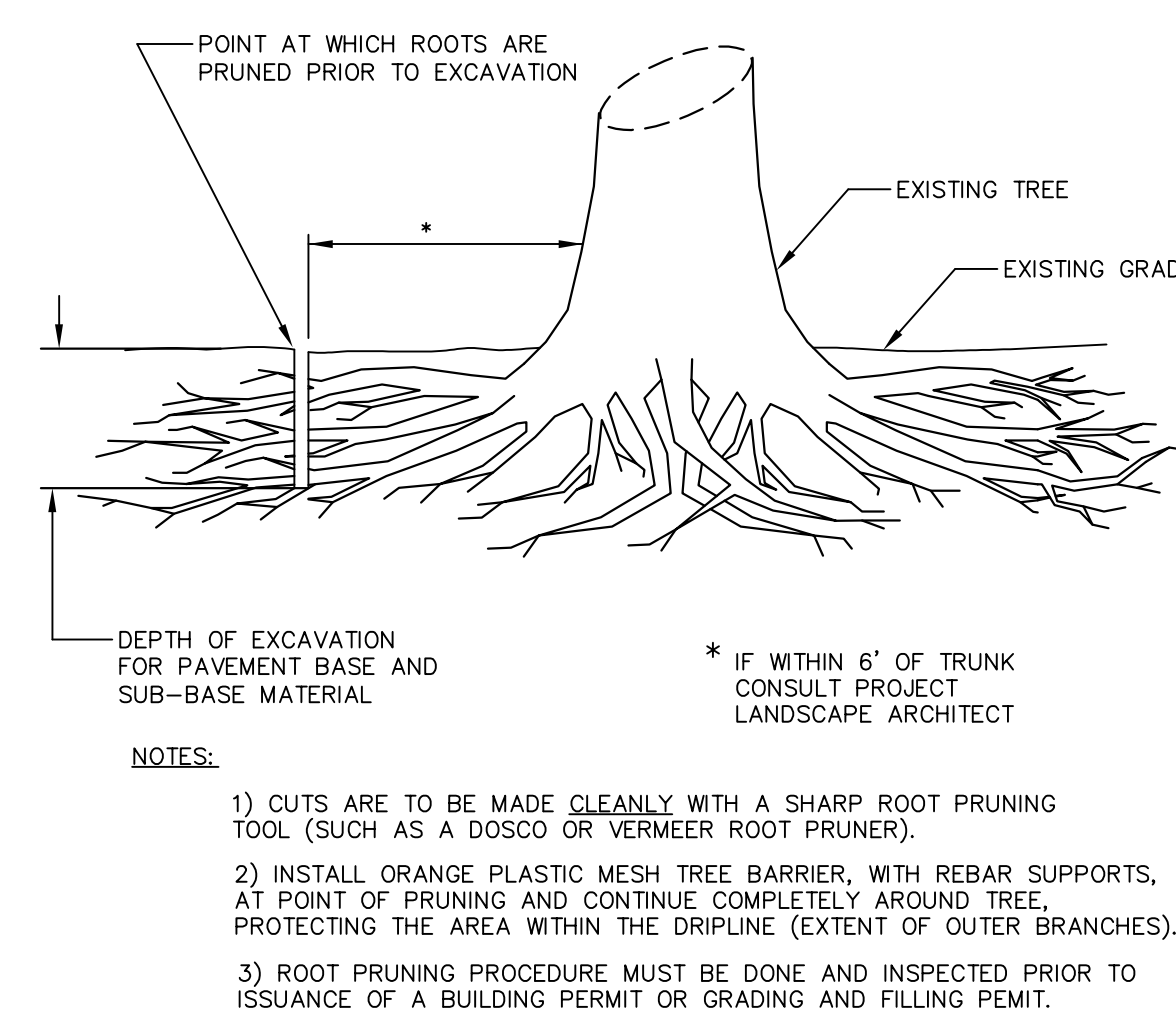
6 MEDJOO PALM INSTALLATION SCHEMATIC
(INFORMATION BY GROUNDWORKS)



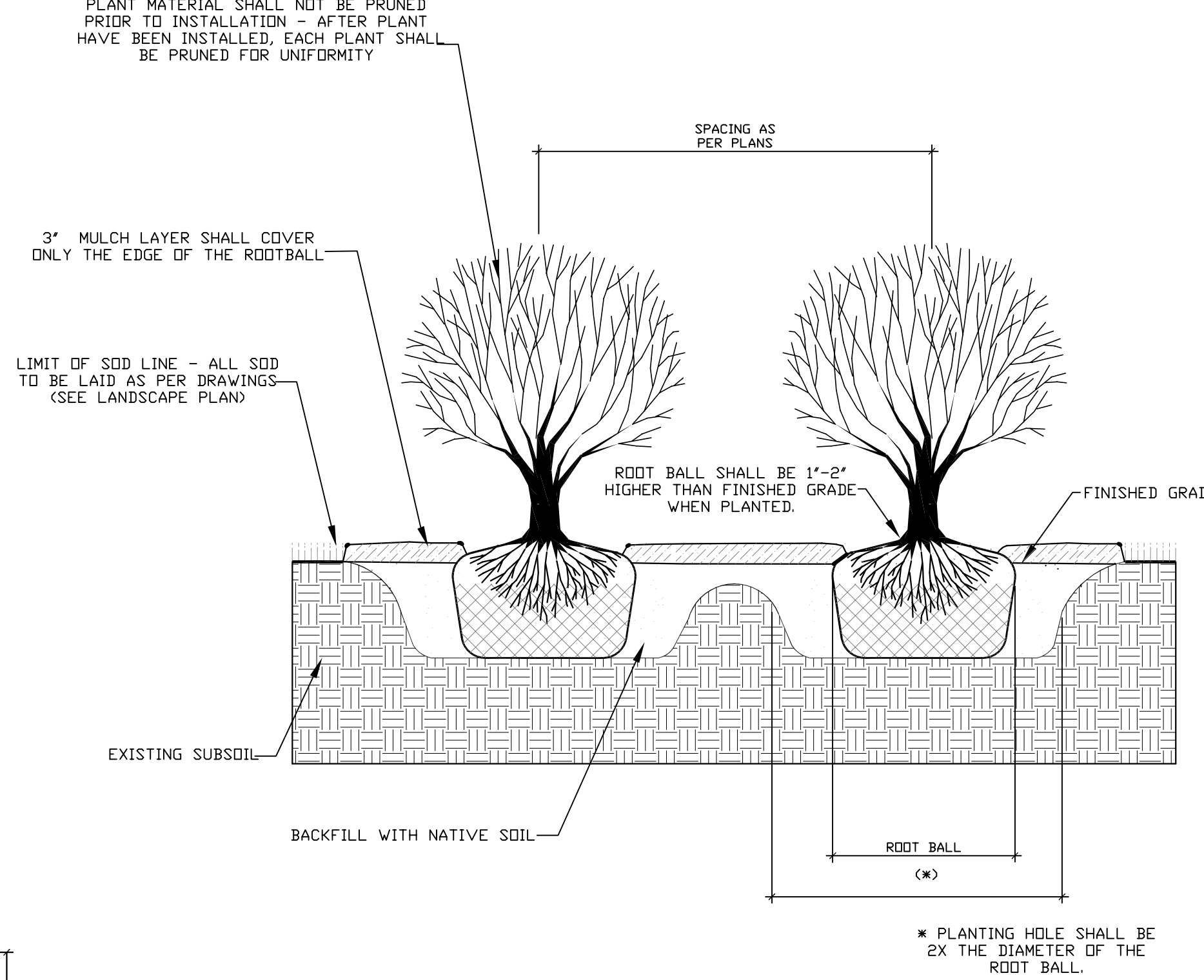
7 TYPICAL CONTAINER SPACING



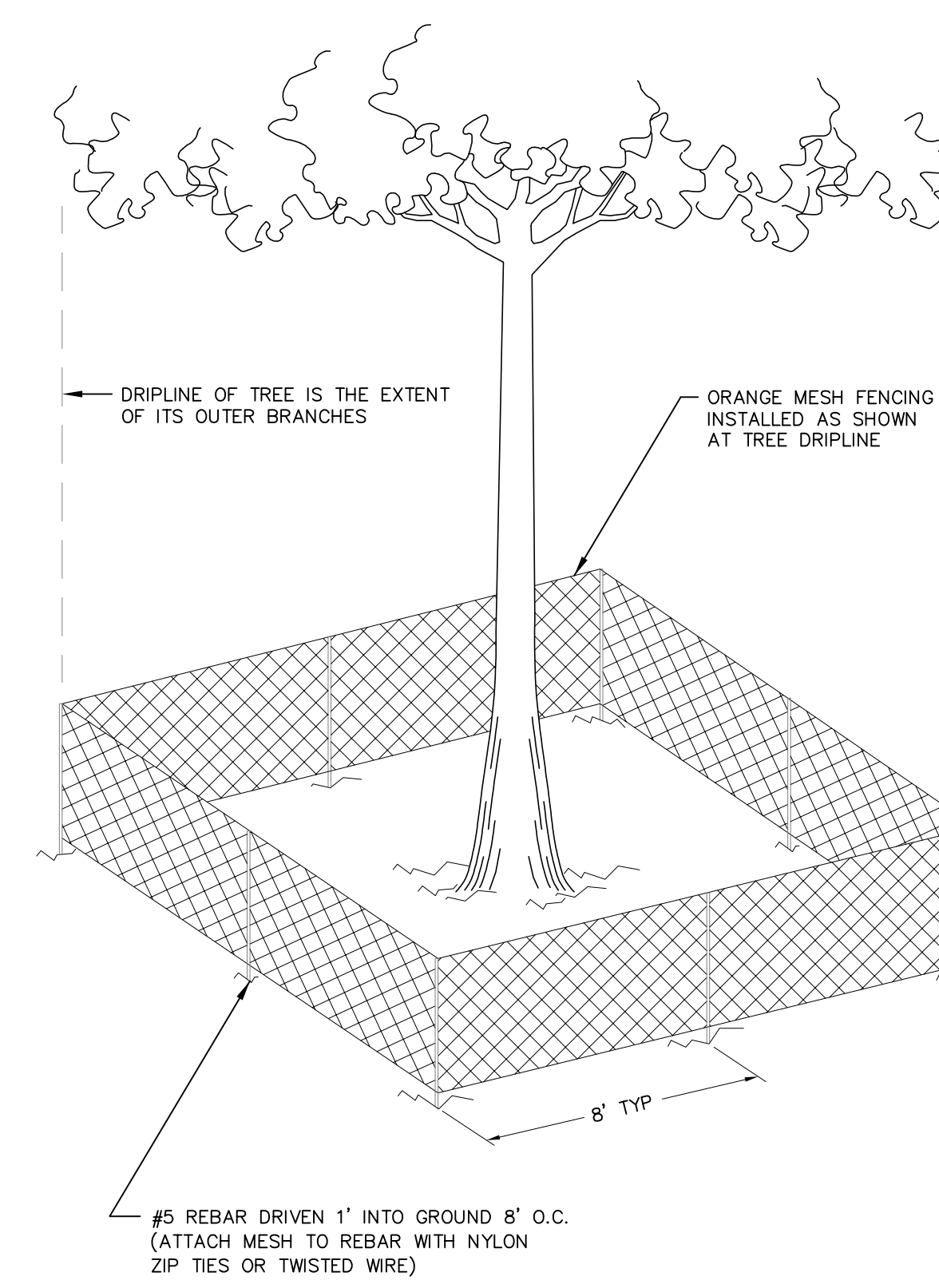
5 TYPICAL GROUND COVER PLANTING DETAIL



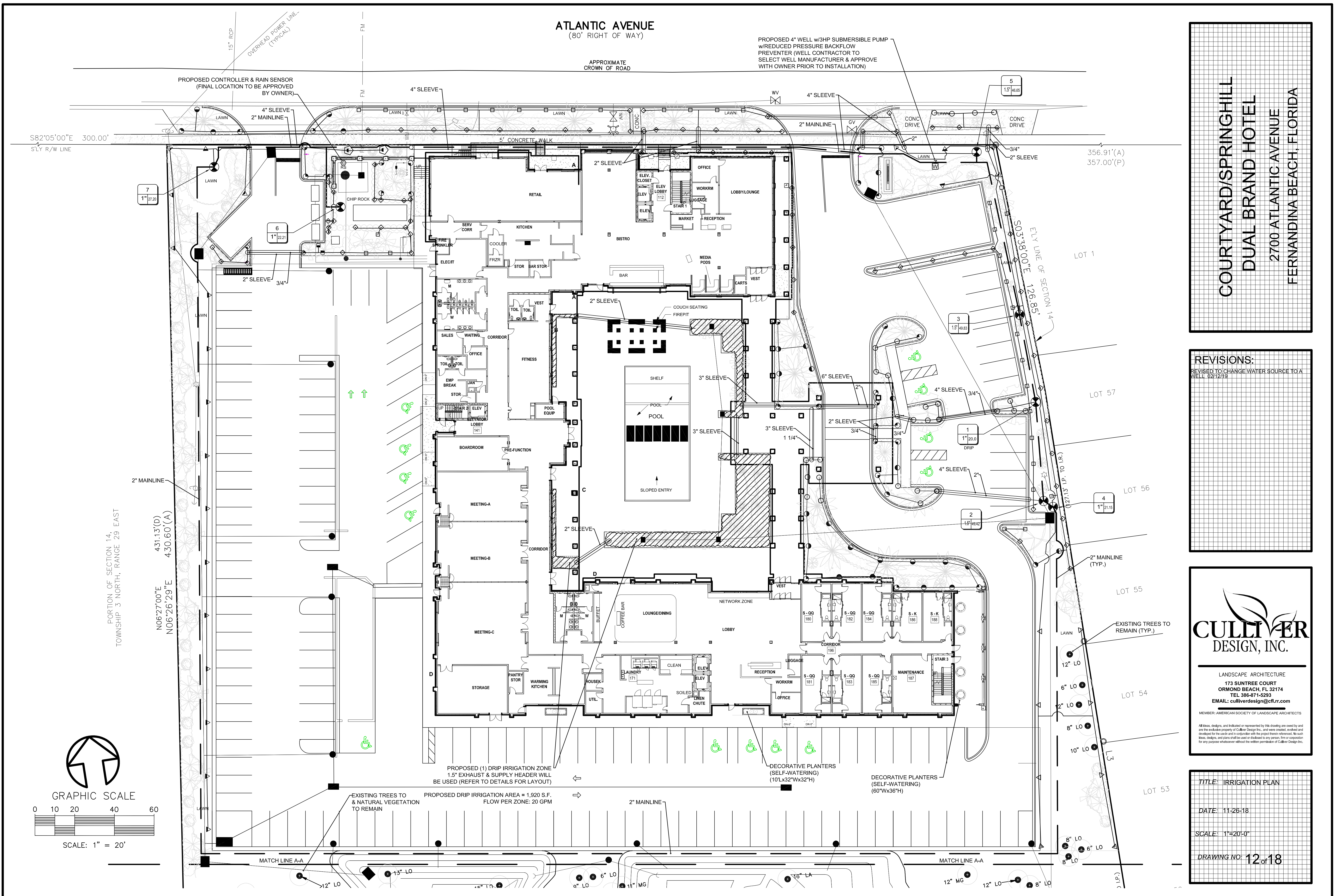
8 ROOT PRUNING DETAIL



3 TYPICAL SHRUB PLANTING DETAIL



9 TREE BARRICADE DETAIL



ATLANTIC AVENUE
(80' RIGHT OF WAY)

PROPOSED 4" WELL W/3HP SUBMERSIBLE PUMP
W/REDUCED PRESSURE BACKFLOW
PREVENTER (WELL CONTRACTOR TO
SELECT WELL MANUFACTURER & APPROVE
WITH OWNER PRIOR TO INSTALLATION)

PROPOSED CONTROLLER & RAIN SENSOR
(FINAL LOCATION TO BE APPROVED
BY OWNER)

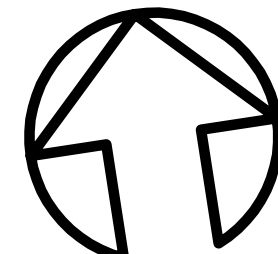
APPROXIMATE
CROWN OF ROAD

S82°05'00"E 300.00'
SLY R/W LINE

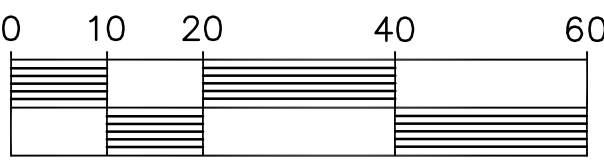
356.91'(A)
357.00'(P)

PORTION OF SECTION 14,
TOWNSHIP 3 NORTH, RANGE 29 EAST

N06°27'00"E 431.13'(D)
N06°26'29"E 430.60'(A)



GRAPHIC SCALE



SCALE: 1" = 20'

PROPOSED (1) DRIP IRRIGATION ZONE
1.5" EXHAUST & SUPPLY HEADER WILL
BE USED (REFER TO DETAILS FOR LAYOUT)

PROPOSED DRIP IRRIGATION AREA = 1,920 S.F.
FLOW PER ZONE: 20 GPM

EXISTING TREES TO
& NATURAL VEGETATION
TO REMAIN

DECORATIVE PLANTERS
(SELF-WATERING)
(10'x32"Wx32"H)

DECORATIVE PLANTERS
(SELF-WATERING)
(60"Wx36"H)

COURTYARD/SPRINGHILL
DUAL BRAND HOTEL
2700 ATLANTIC AVENUE
FERNANDINA BEACH, FLORIDA

REVISIONS:

REVISED TO CHANGE WATER SOURCE TO A
WELL 02/12/19

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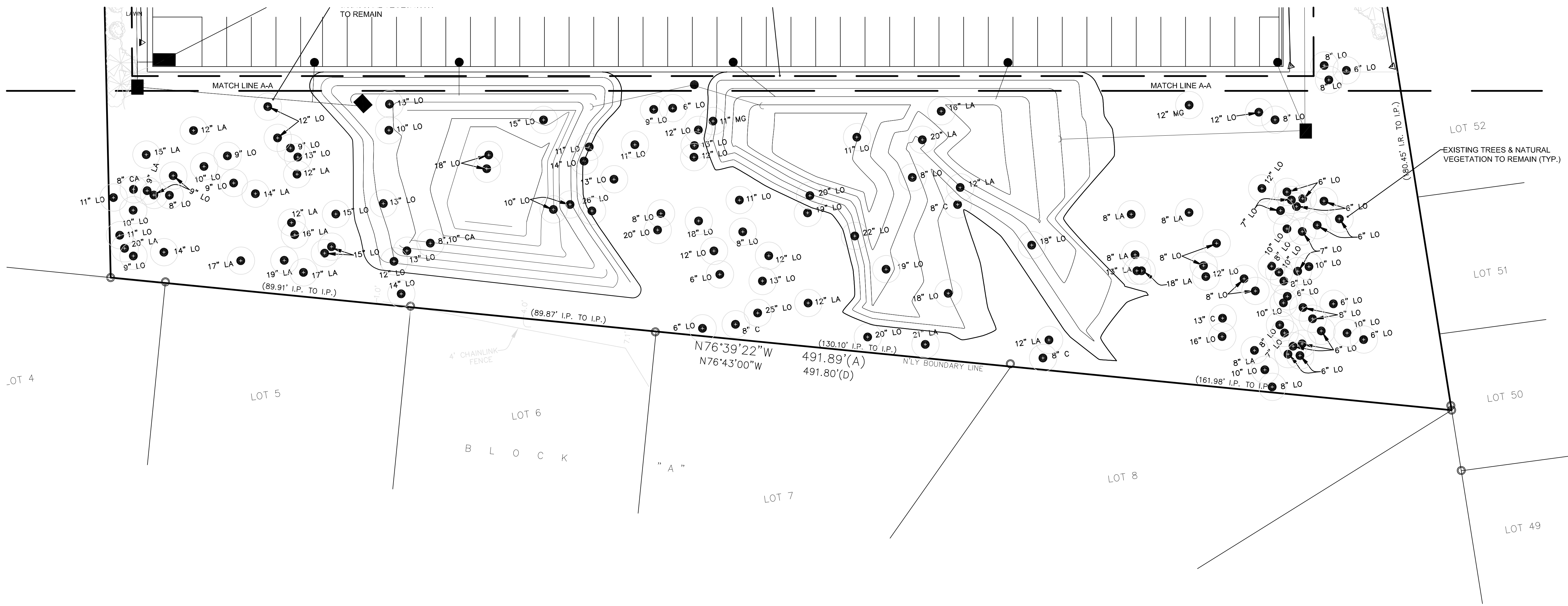
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TITLE: IRRIGATION PLAN

DATE: 11-26-18

SCALE: 1"=20'-0"

DRAWING NO: 12 of 18



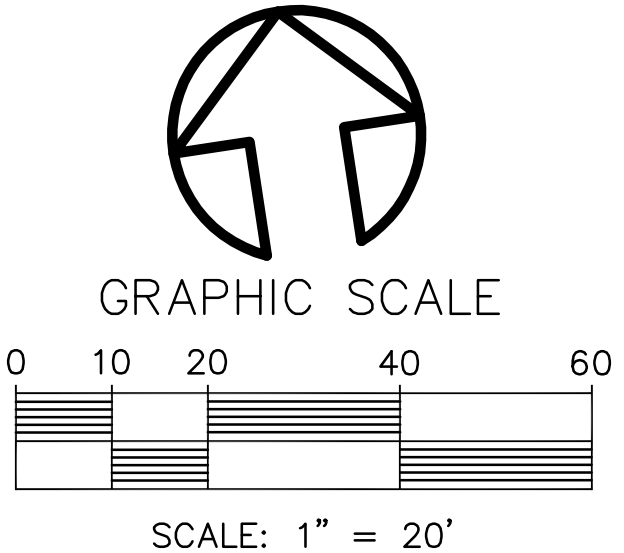
IRRIGATION LEGEND:

TORO IRRIGATION 570Z PRX SERIES: MODEL#: 570Z-6P-PRX (LAWN AREA) & 570Z-12P-PRX (PLANTING BEDS)

HEAD SYMBOL:	IRRIGATION DESCRIPTION:
	PROPOSED SPECIAL PATTERNS - 4-EST (4'x15')
	PROPOSED SPECIAL PATTERNS - 4-SST (4'x30')
	PROPOSED 8' SERIES - MODEL#: 8-Q & 8-H
	PROPOSED 10' SERIES - MODEL#: 10-Q, 10-T & 10-H
	PROPOSED 12' SERIES - MODEL#: 12-Q, 12-T & 12-H
	PROPOSED 15' SERIES - MODEL#: 15-Q, 15-T & 15-H
	HUNTER IRRIGATION - PRO-SPRAY: MODEL#: PROS-06 (LAWN AREAS) & PROS-12 (PLANTING BEDS)
	PROPOSED END STRIP PATTERN NOZZLE - ES-515 (5'x15')
	PROPOSED SIDE STRIP PATTERN NOZZLE - SS-530 (5'x30')
	HUNTER IRRIGATION - PGJ ROTOR: MODEL#: PGJ-ADJ (6\"/>
	HUNTER IRRIGATION - PGP ROTOR: MODEL#: PGP-ADJ (4\"/>
	PROPOSED PGP NOZZLE 3 (QUARTER) & NOZZLE 6 (HALF) (25'-35' Radius)
	NEW SCHEDULE 40 PVC SLEEVE (SIZE AS NOTED)
	NEW SCHEDULE 160 PVC LATERAL 3/4" MIN. (SIZE AS NOTED)
	NEW SCHEDULE 40 PVC MAINLINE (2")
	PGV-101A & PGV-151 (REFER TO PLAN)
	HUNTER PRO-C CONTROLLER MODEL#: PC-1200 & PCM-300; 7 Stations (Plastic Cabinet)
	PROPOSED 4" WELL w/3HP SUBMERSIBLE PUMP (WELL MANUFACTURER TO BE APPROVED BY OWNER)
	PROPOSED REDUCED PRESSURE BACKFLOW PREVENTER (SIZE AS REQUIRED)
	HUNTER MINI CLICK RAIN SWITCH

IRRIGATION CONTRACTOR NOTES:

CONTRACTOR IS RESPONSIBLE TO CORRECTLY SIZE ALL IRRIGATION LATERALS FOR OPTIMUM SYSTEM PERFORMANCE. (MINIMUM 3/4" SCHEDULE PR 160 PVC)
- ALL HEADS LOCATED IN LAWN AREAS SHALL BE A 6" POP UP, UNLESS OTHERWISE SPECIFIED.
- ALL HEADS IN PLANTING AREAS SHALL BE A 12" POP UP.



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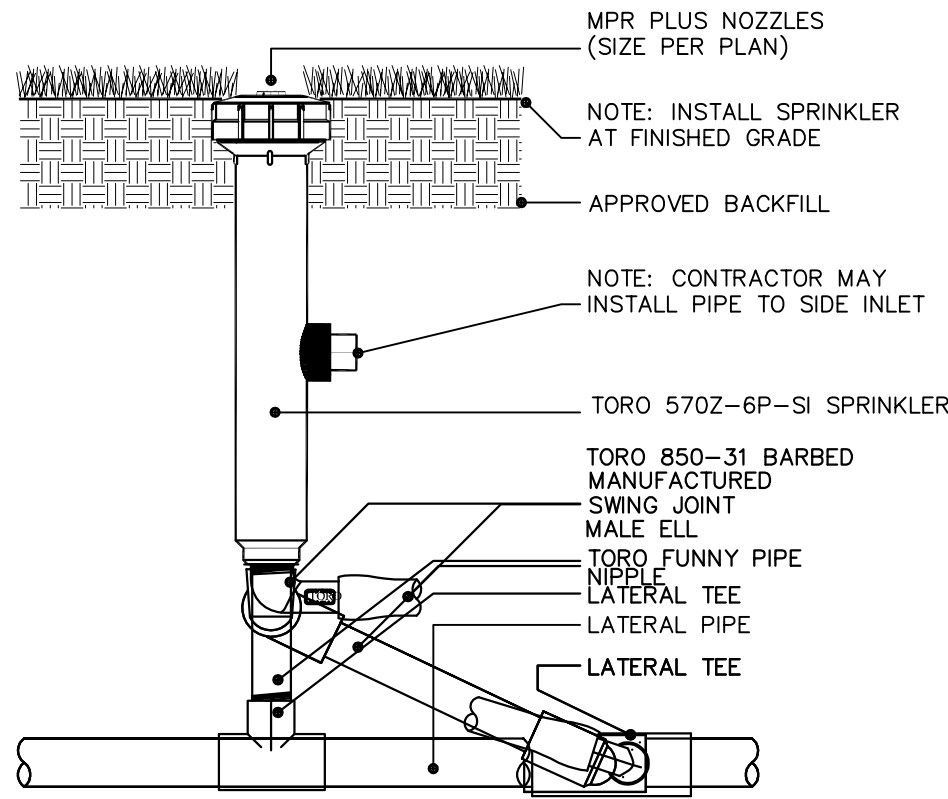
REVISIONS:
REVISED TO CHANGE WATER SOURCE TO A WELL 02/12/19

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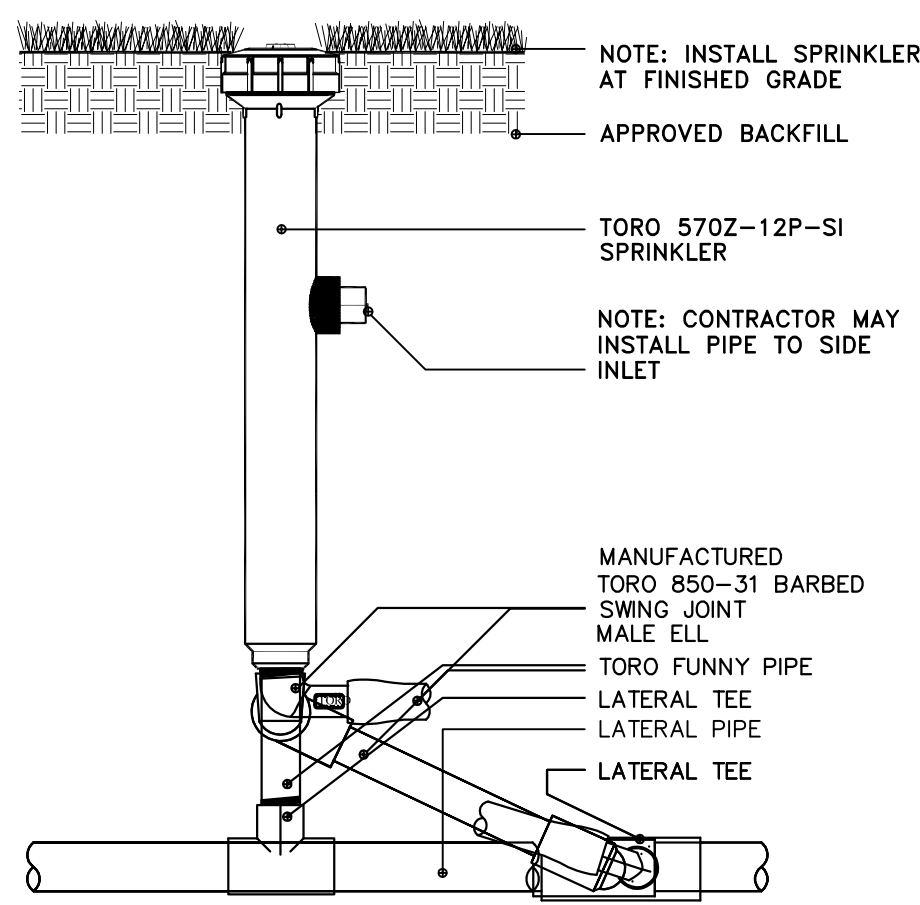
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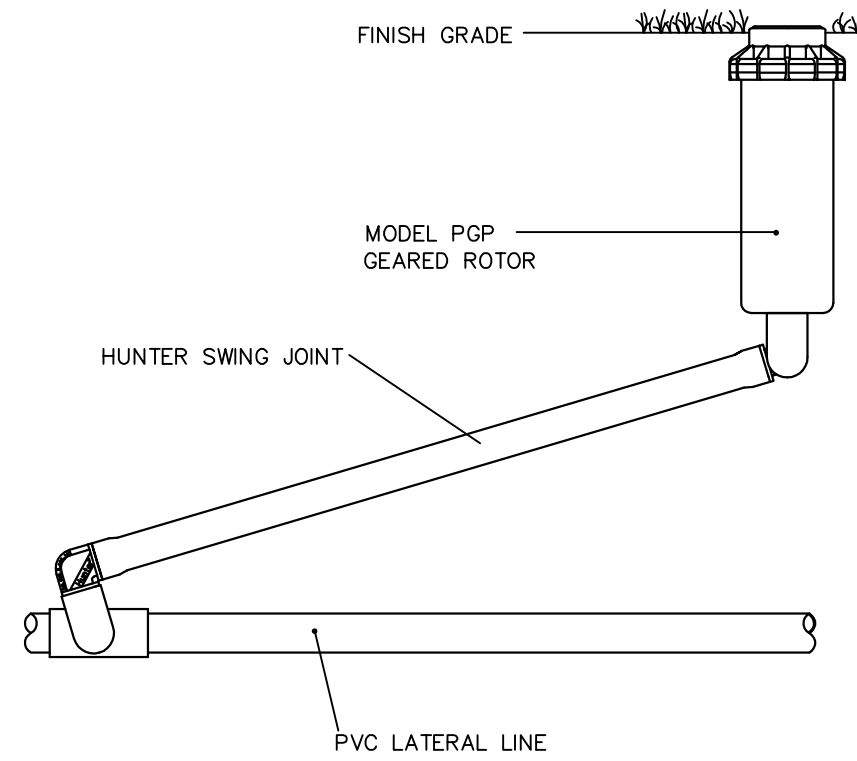
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DATE: 11-26-18
SCALE: 1"=20'-0"
DRAWING NO: 13 of 18



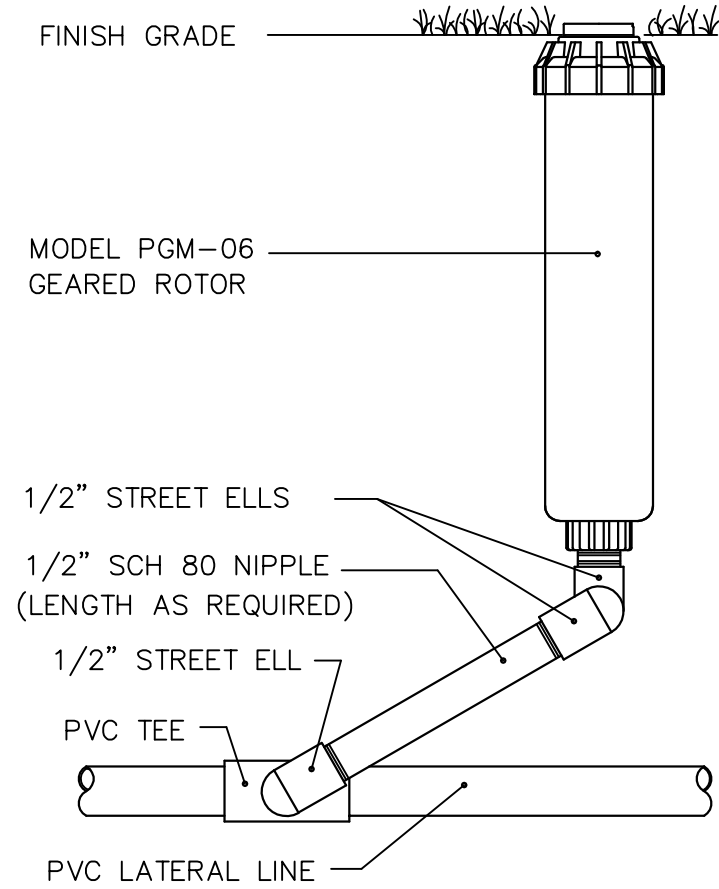
1 TORO 570Z-6P-SI



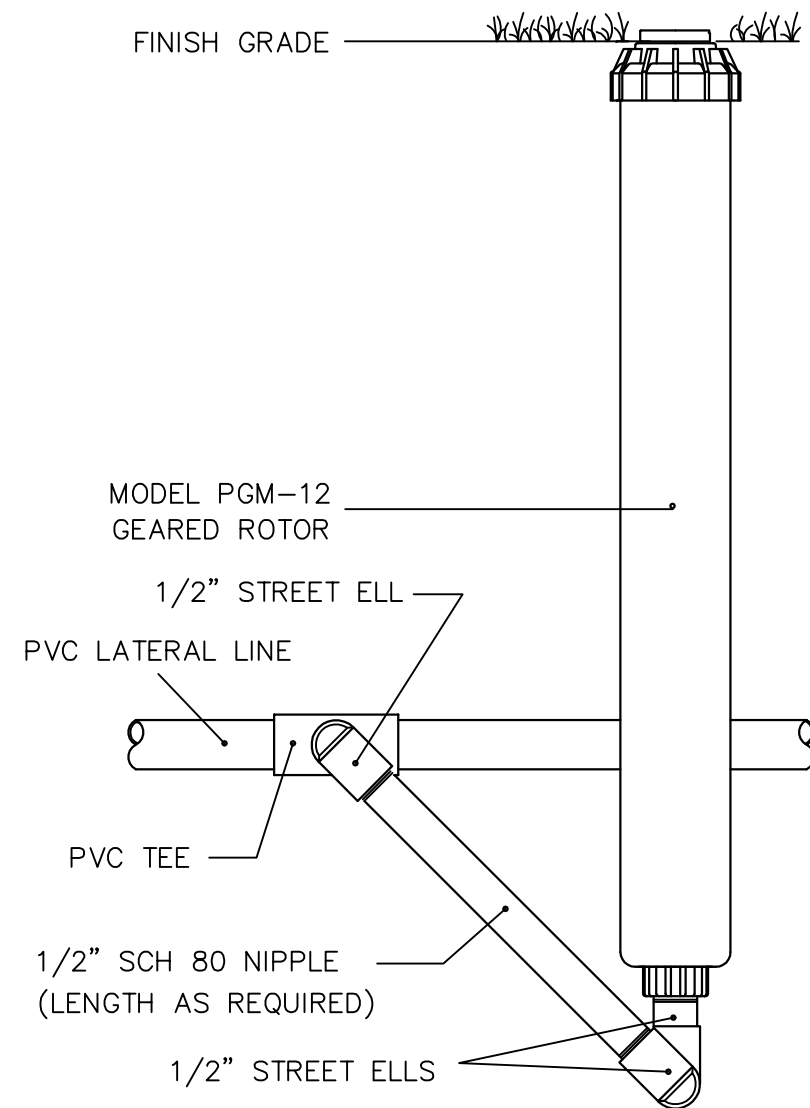
2 TORO 570Z-12P-SI



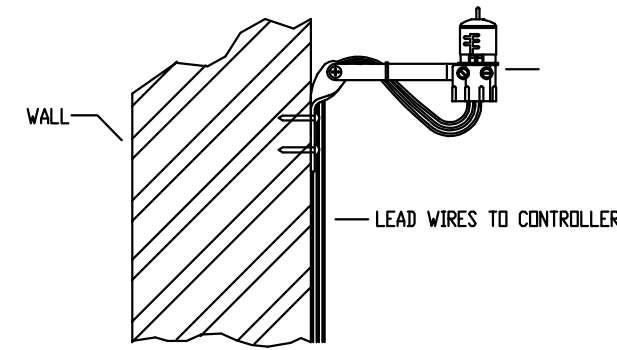
3 HUNTER PGP-SJ GEAR DRIVE



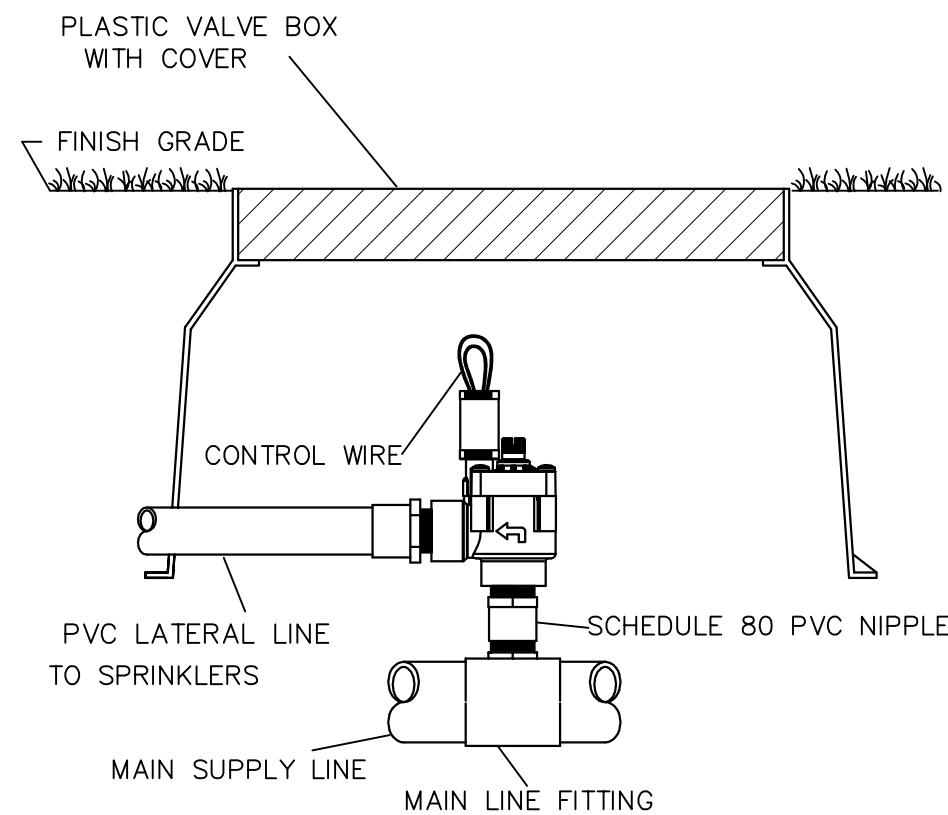
4 HUNTER PGJ-06 ROTOR



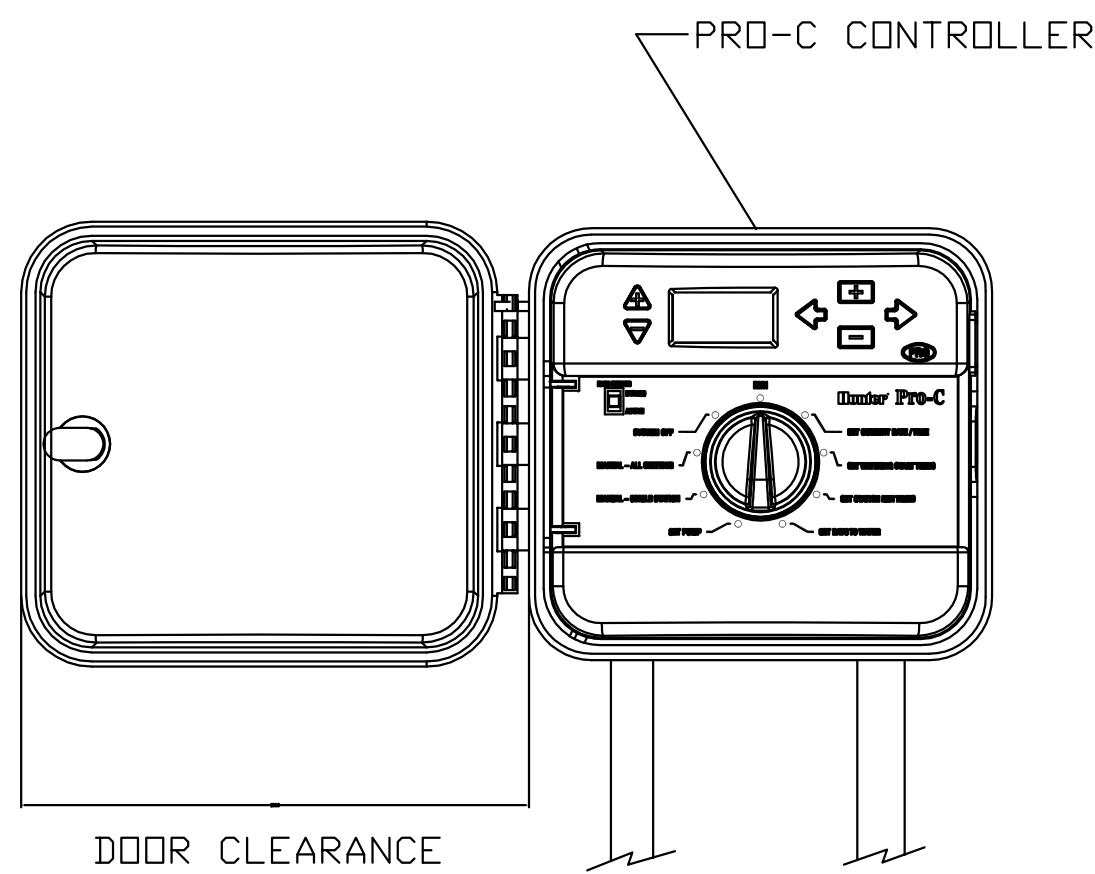
4A HUNTER PGJ-12 ROTOR



5 HUNTER MINI CLICK



6 HUNTER PGVI-ANGLE



7 HUNTER PRO-C CONTROLLER (OUTDOOR)

IRRIGATION NOTES:

1. THE ENTIRE SYSTEM TO BE INSTALLED IN COMPLIANCE WITH ALL LOCAL CODES. CONTRACTOR TO SUPPLY AND INSTALL ALL CHECK VALVES, BACKFLOW PREVENTERS, PERMITS ETC., AS REQUIRED BY THESE CODES EVEN IF THOSE ITEMS ARE NOT SHOWN ON THE DRAWING.
2. ALL MAIN LINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER AND ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
3. PIPE SIZES SHALL CONFORM TO THOSE ON THE DRAWINGS. THE SMALLEST LATERAL PIPE SIZE TO A SINGLE SPRAY OR ROTOR HEAD SHALL BE 3/4".
4. ALL REMOTE CONTROL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES.
5. ALL RISERS SHALL BE STAKED WITH A STEEL ANGLE AND SECURED WITH UV RESISTANT PLASTIC CABLE TIES. RISERS AND ANGLE SHALL BE PAINTED HUNTER GREEN.
6. ALL RISERS SHALL BE INSTALLED 12"-INCHES FROM ANY WALL AND A MINIMUM OF 18"-INCHES FROM ANY SIDEWALK, PATIO OR ROAD.
7. ALL LOW VOLTAGE WIRING TO BE #14 DIRECT BURIAL WIRE, COLORED RED FOR CONTROL WIRES AND WHITE FOR COMMON WIRES (UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS). NO CROSS CONNECTION BETWEEN CONTROLLERS SHALL BE ALLOWED. WIRE SPLICES SHALL BE MADE ONLY IN VALVE BOXES USING KING "ONE STEP" CONNECTORS AND SEALANT.
8. ANY PIPING OR VALVES SHOWN OUTSIDE THE PROPERTY LINE OR OUTSIDE OF A LANDSCAPE AREA IS SHOWN THERE FOR DESIGN CLARITY ONLY. ALL PIPING AND VALVES SHALL BE INSTALLED ON THE PROPERTY AND WITHIN LANDSCAPE AREAS.
9. FINAL LOCATION OF THE AUTOMATIC CONTROLLER(S) SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.
10. ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO A JUNCTION BOX AT THE EQUIPMENT LOCATION (BY OTHERS, NOT PART OF THIS CONTRACT). THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL CONNECTION FROM THE JUNCTION BOX TO ALL EQUIPMENT.
11. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKER HEADS AND VALVES TO PROVIDE OPTIMUM COVERAGE WITH MINIMAL OVERSPRAY ONTO WALKS, STREETS, WALLS ETC.,... IN ORDER TO ACCOMPLISH THIS, THE CONTRACTOR MAY SUBSTITUTE VARIABLE ARC NOZZLES IN PLACE OF THE SPECIFIED FIXED ARC NOZZLES WHERE NECESSARY. PRESSURE COMPENSATING SCREENS MAY ALSO BE USED TO REDUCE SPRAY DISTANCE.
12. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
13. ALL SLEEVES UNDER SIDEWALKS TO BE BURIED 6"-12" BELOW WALK SURFACE.
14. MAIN LINE MUST BE INSTALLED PER PLAN. OTHER LOCATIONS WILL NOT BE ACCEPTED.
15. ALL SPRAY HEADS OR NOZZLES IN PLANTING BEDS TO BE PLACED ON RISERS (SCH. 40) OF APPROPRIATE HEIGHT TO PLANTING AND RISERS TO BE PAINTED HUNTER GREEN.
16. ALL HEADS IN OPEN LAWN AREAS TO BE MOUNTED ON SWING JOINTS.
17. ALL MATERIALS TO BE NEW. ALL PIPE TO BE CUT SQUARELY AND BURRS REMOVED. ALL PVC JOINTS TO BE MADE WITH THE USE OF CLEANER, PRIMER AND CLEAN SOLVENT WELD.
18. ALL WORK TO BE DONE IN GOOD WORKMAN LIKE MANNER AND IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
19. ALL LINE LOCATIONS ARE APPROXIMATE. CONTRACTOR TO ADJUST TRENCHING IN THE FIELD FOR EXISTING CONDITIONS, PLANTINGS AND STRUCTURES.
20. HEAD LOCATIONS ARE APPROXIMATE. CONTRACTOR TO MAINTAIN 100% COVERAGE WITH 50% OVERLAP.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND EXISTENCE OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY UTILITIES IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE AND SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES OR STRUCTURES.
22. THERE SHALL BE A ONE (1) YEAR GURANTEE ON ALL PARTS AND LABOR FROM THE DATE OF FINAL ACCEPTANCE. AT THE END (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, THE CONTRACTOR SHALL CHECK AND ADJUST (IF NECESSARY) THE ENTIRE SYSTEM.
23. CONTRACTOR SHALL MARK STATIONS ON THE CONTROLLER PANEL TO CORRESPOND WITH THE ZONE NUMBERS ON THIS PLAN AND SET OPERATING SEQUENCE TO CORRESPOND TO THE NUMBERING.
24. ALL SLEEVES TO BE INSTALLED UNDER EXISTING ASPHALT OR WALKS TO BE INSTALLED BY DIRECTIONAL DRILL OR JACK & BORE UNDER THE PAVEMENT.
25. ALL VALVE BOXES SHALL BE FLUSH WITH FINISH GRADE AND HAVE A MINIMUM OF 3"-INCHES OF CHIP ROCK INSIDE THE BOX AROUND THE VALVE FOR POSITIVE DRAINAGE.

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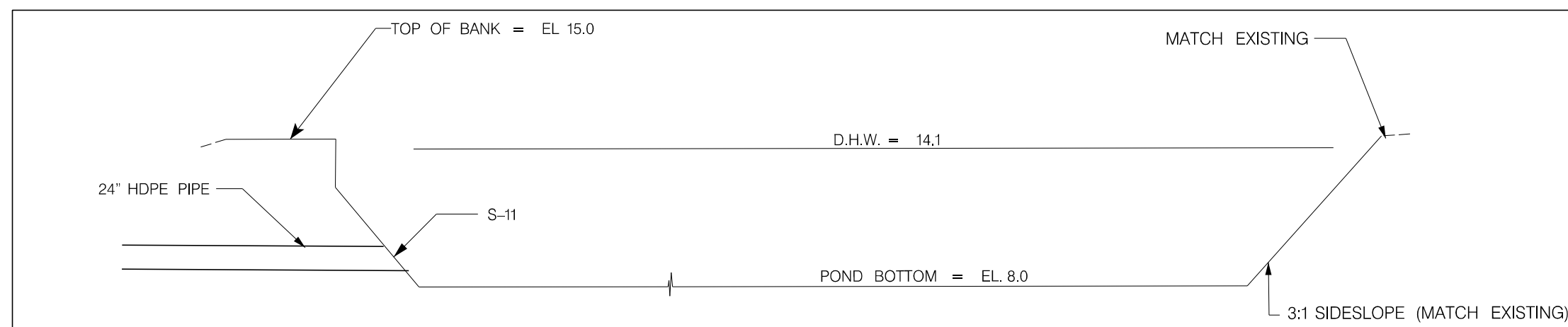
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TITLE: IRRIGATION DETAILS

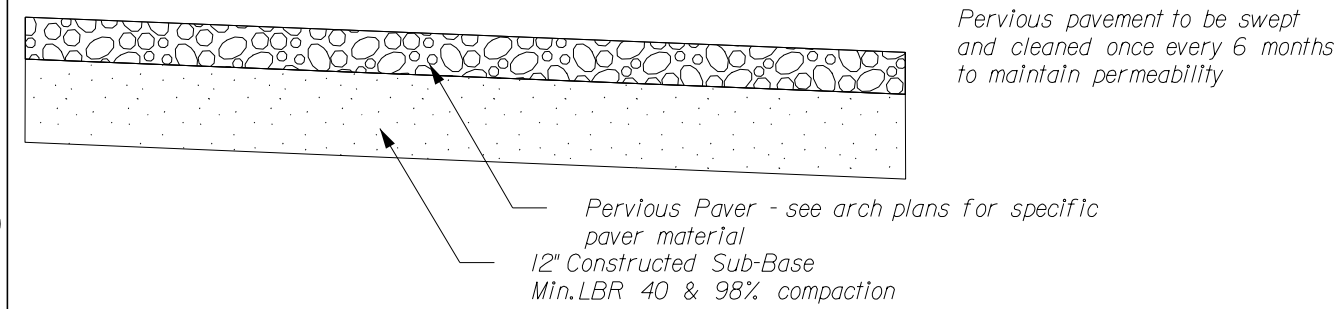
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SCALE: N.T.S.

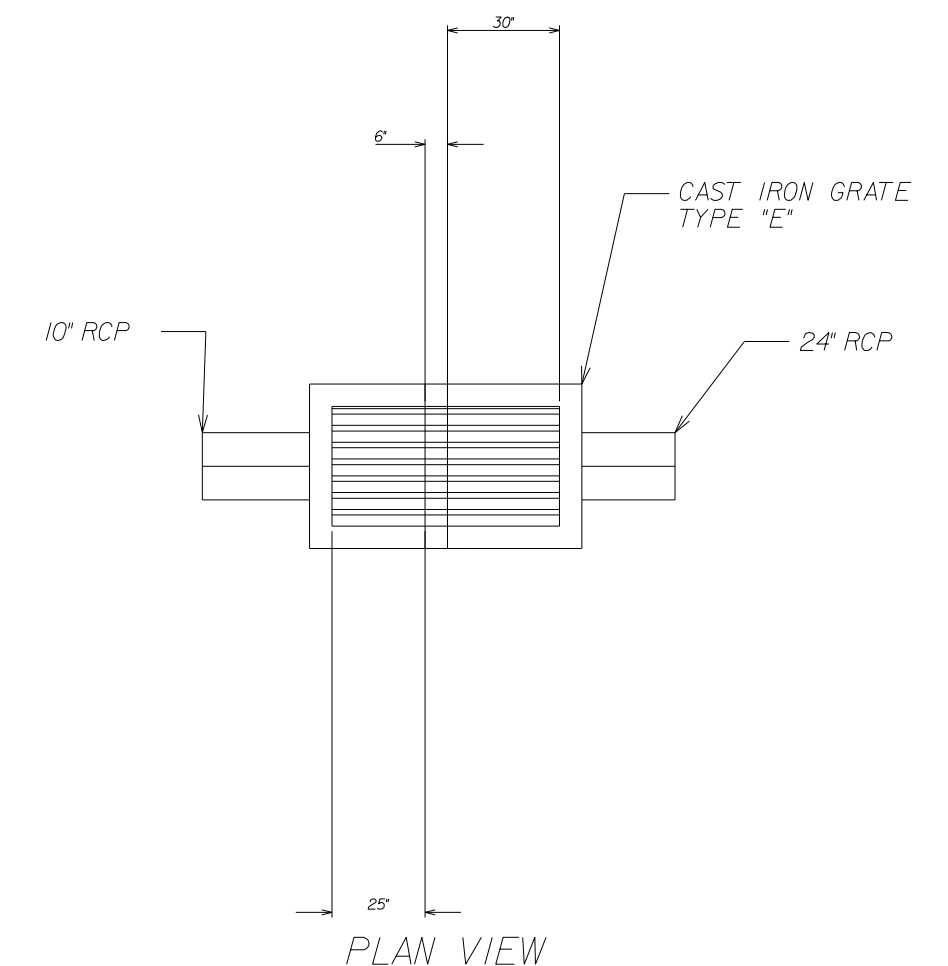
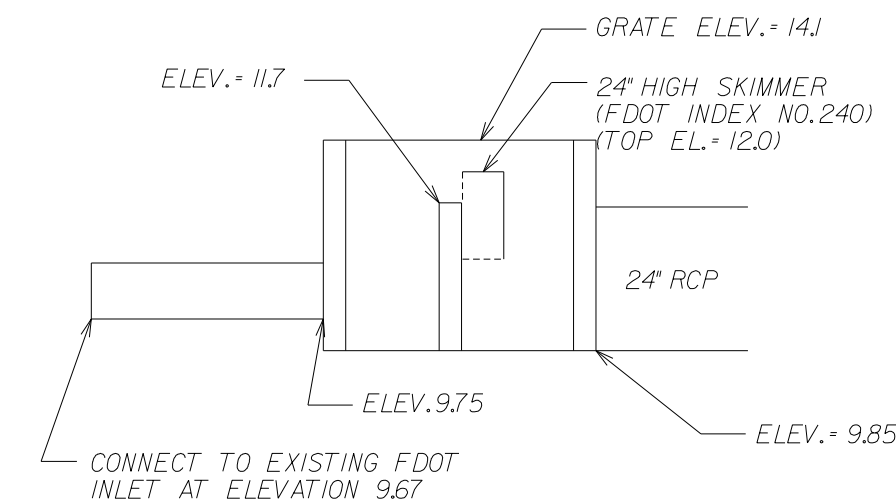
DRAWING NO: 14 of 18



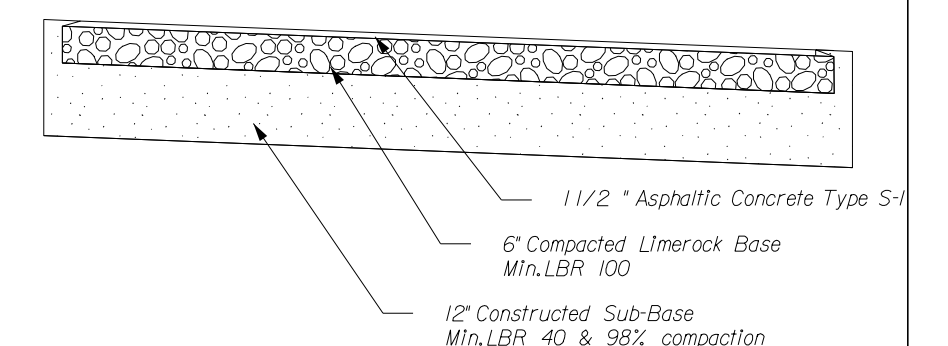
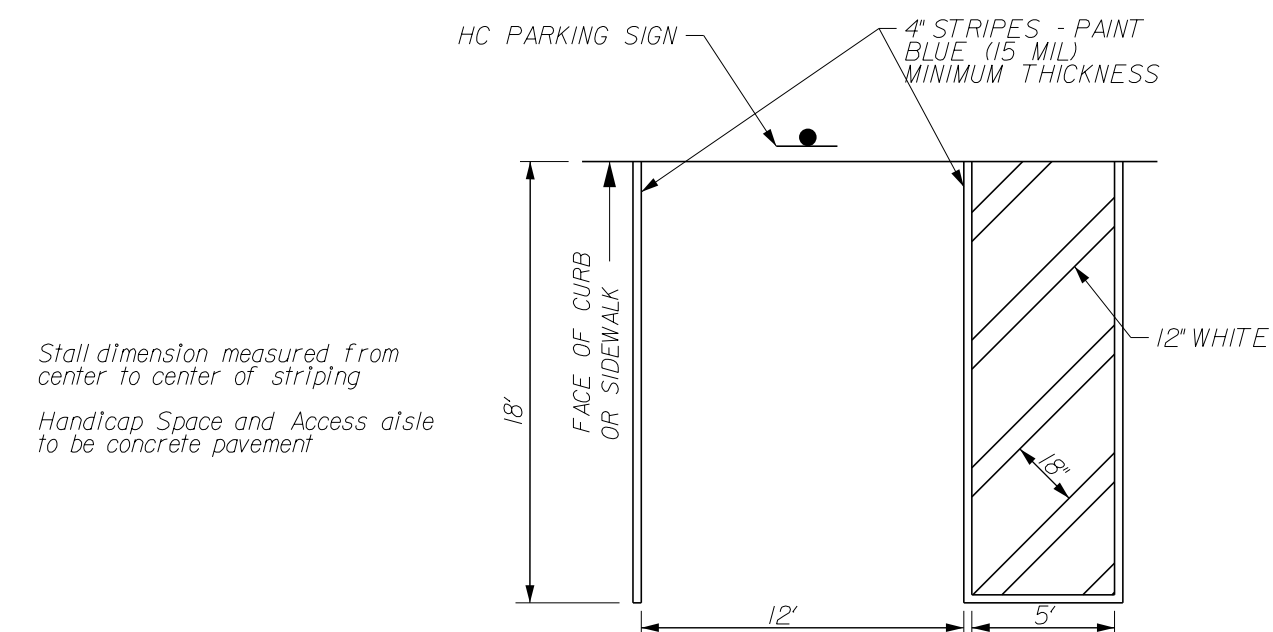
PONDS 1 & 2 CROSS SECTION AND DETAIL



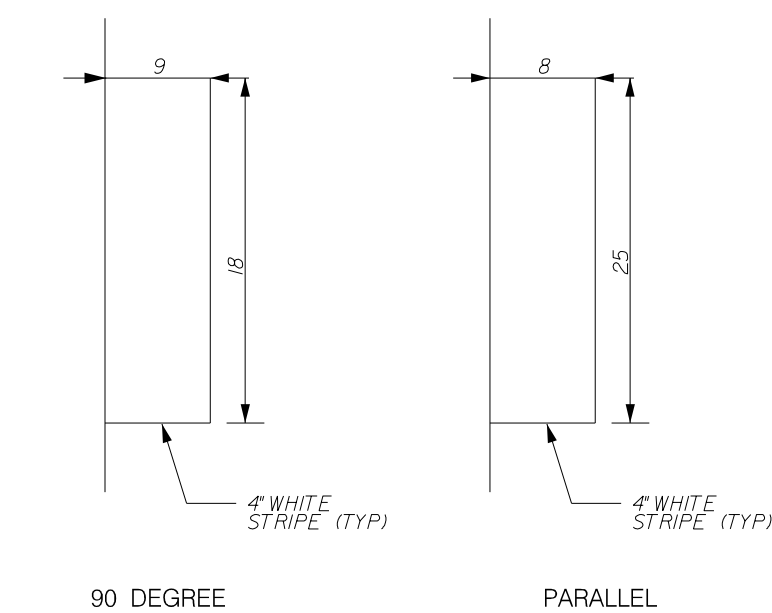
PERVIOUS PAVER DETAIL



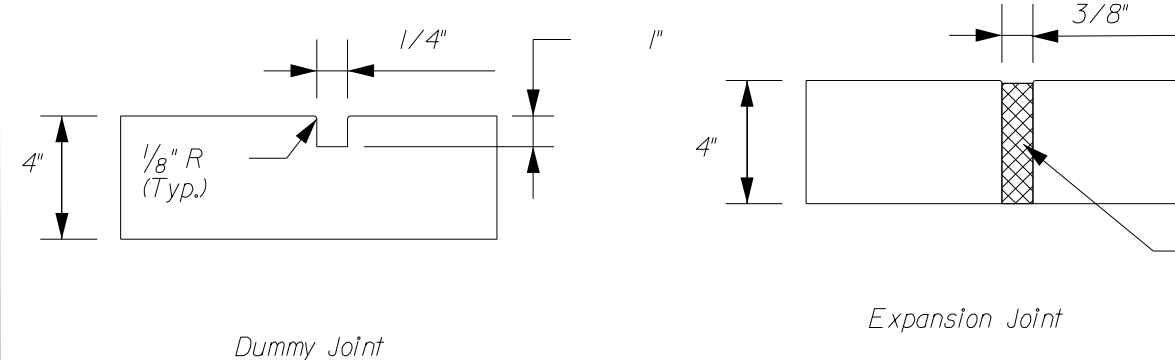
MODIFIED TYPE E INLET DETAIL - S-12



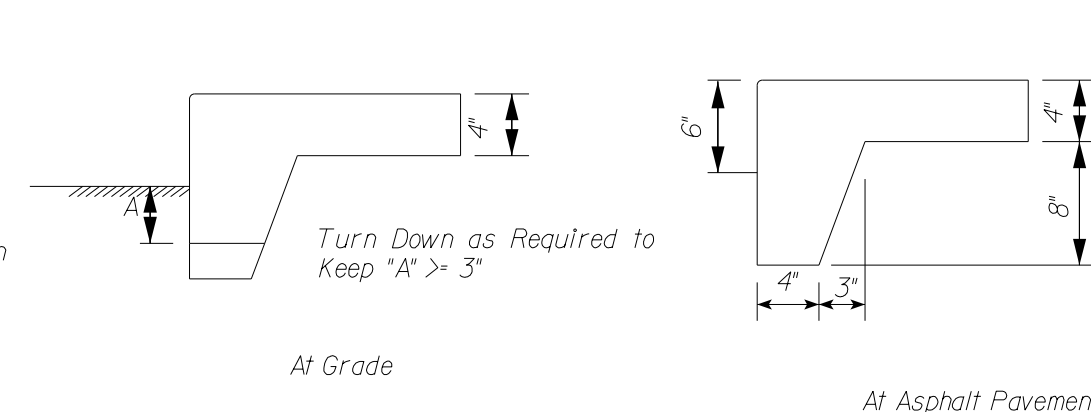
Note: Soil analysis may indicate the need for a thicker base course than those shown herein. The pavement thickness shown herein are not intended to be absolute, but are preliminary criteria & may be modified to accommodate the bearing capacities of various subgrades.



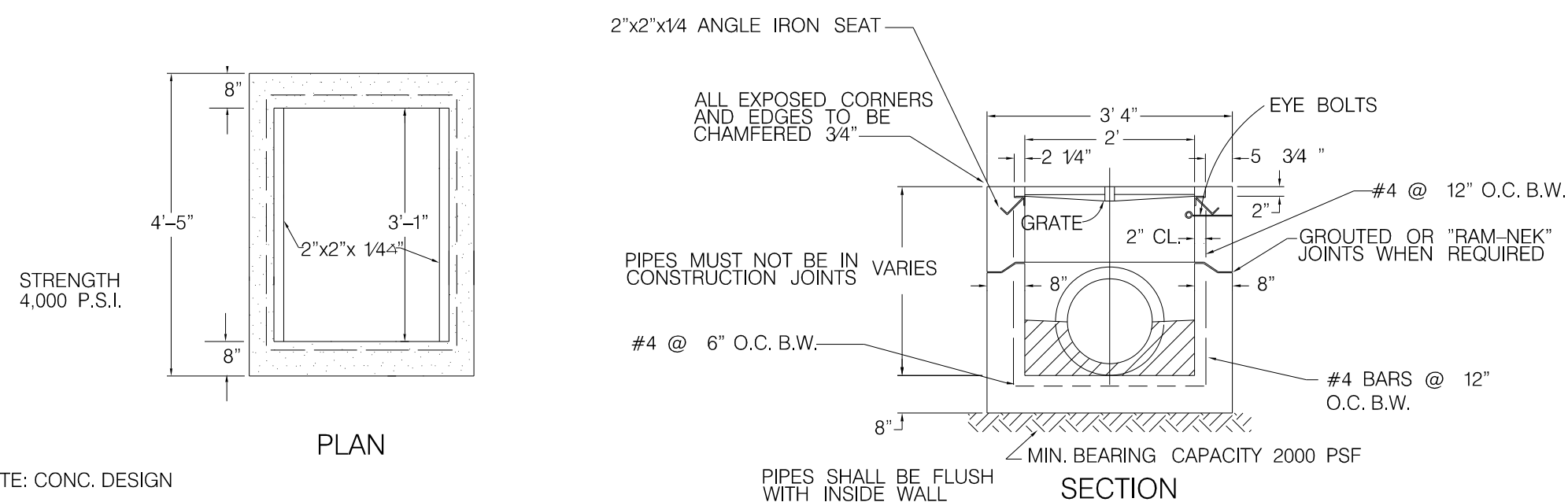
ONSTREET PARKING DETAIL



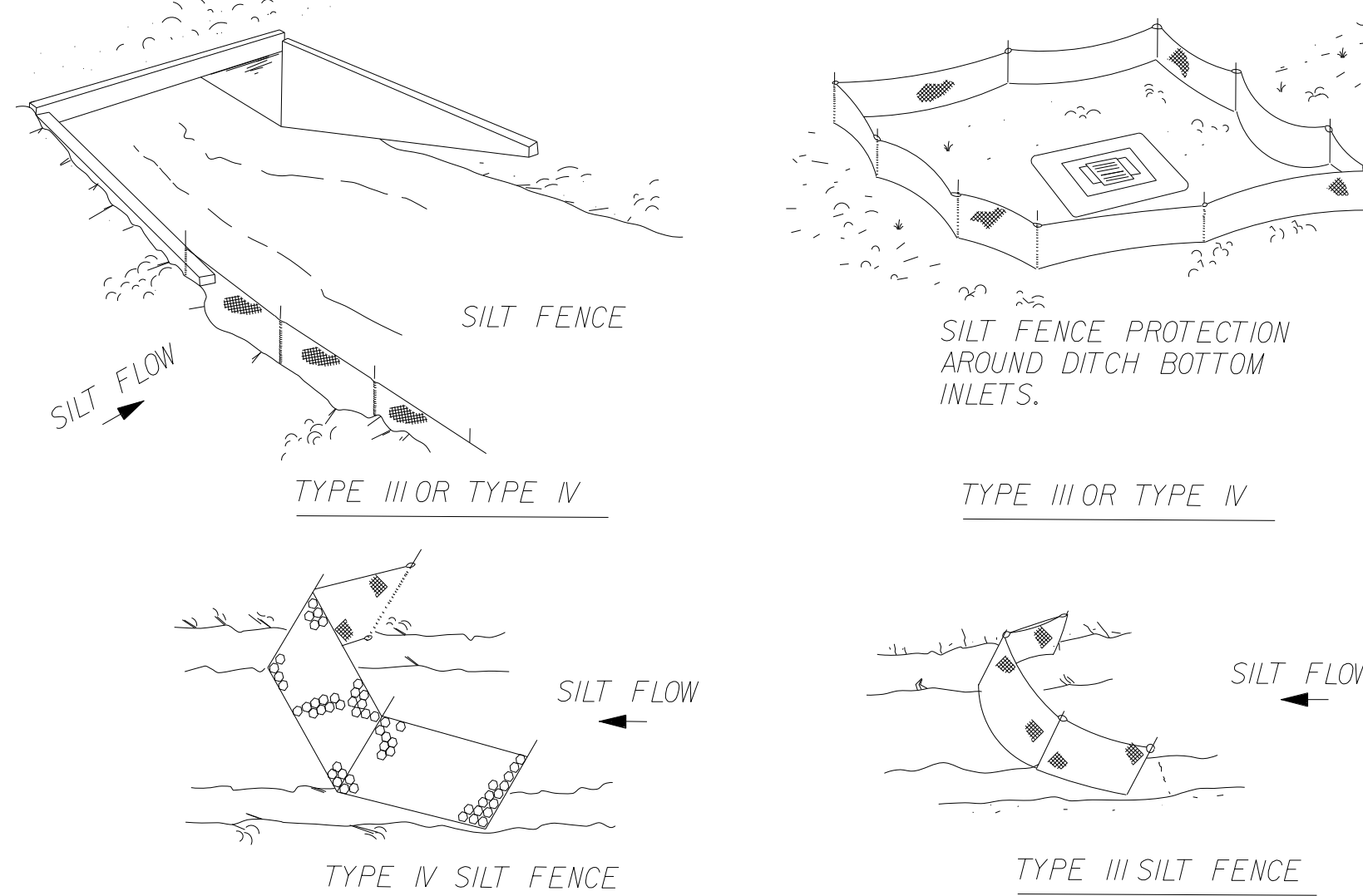
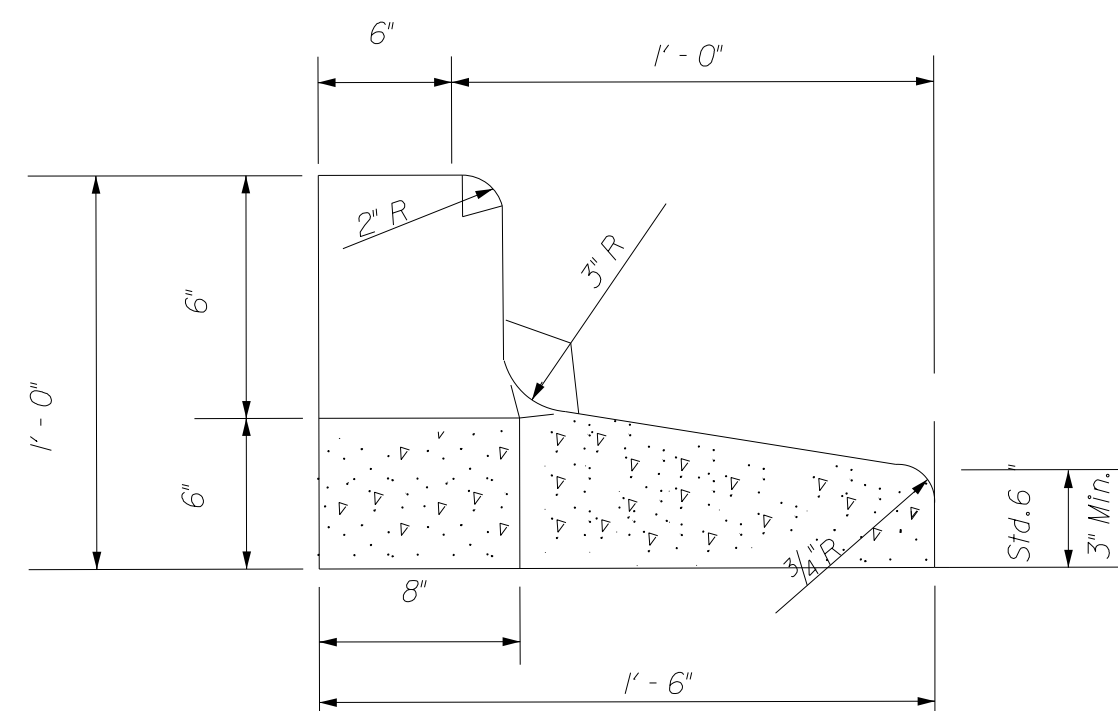
SIDEWALK JOINT DETAILS



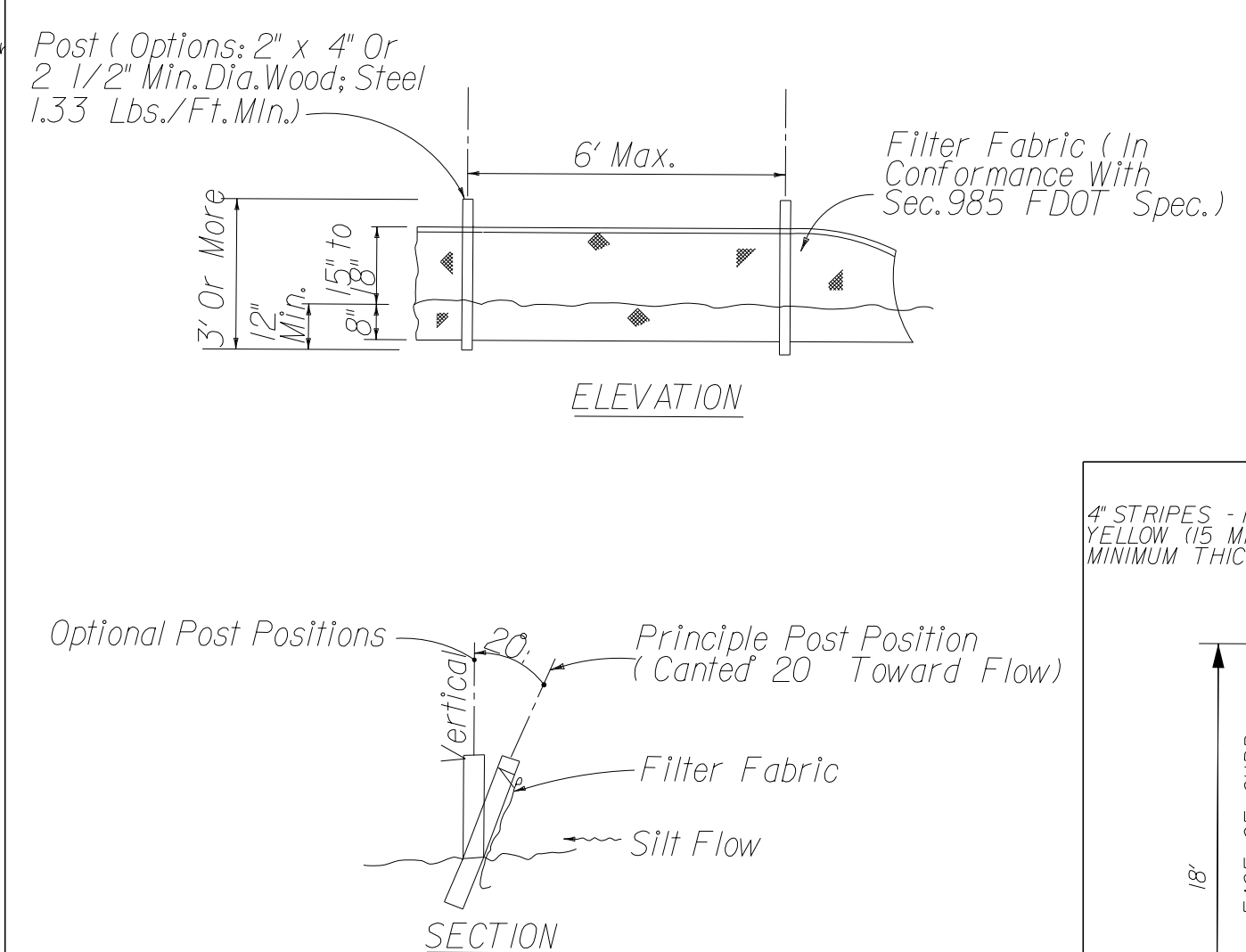
SIDEWALK TURNDOWN DETAILS

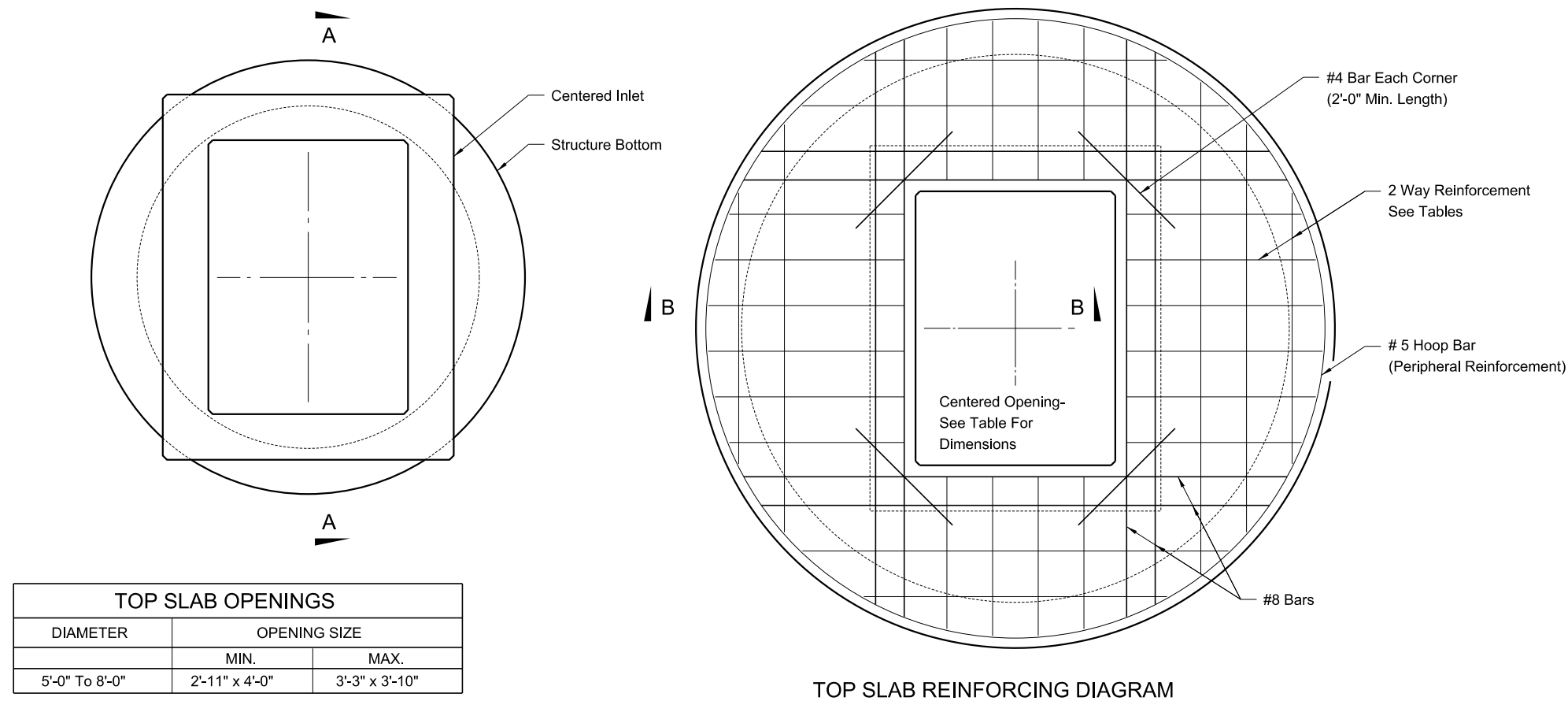


STORM SEWER TYPE "C" INLET



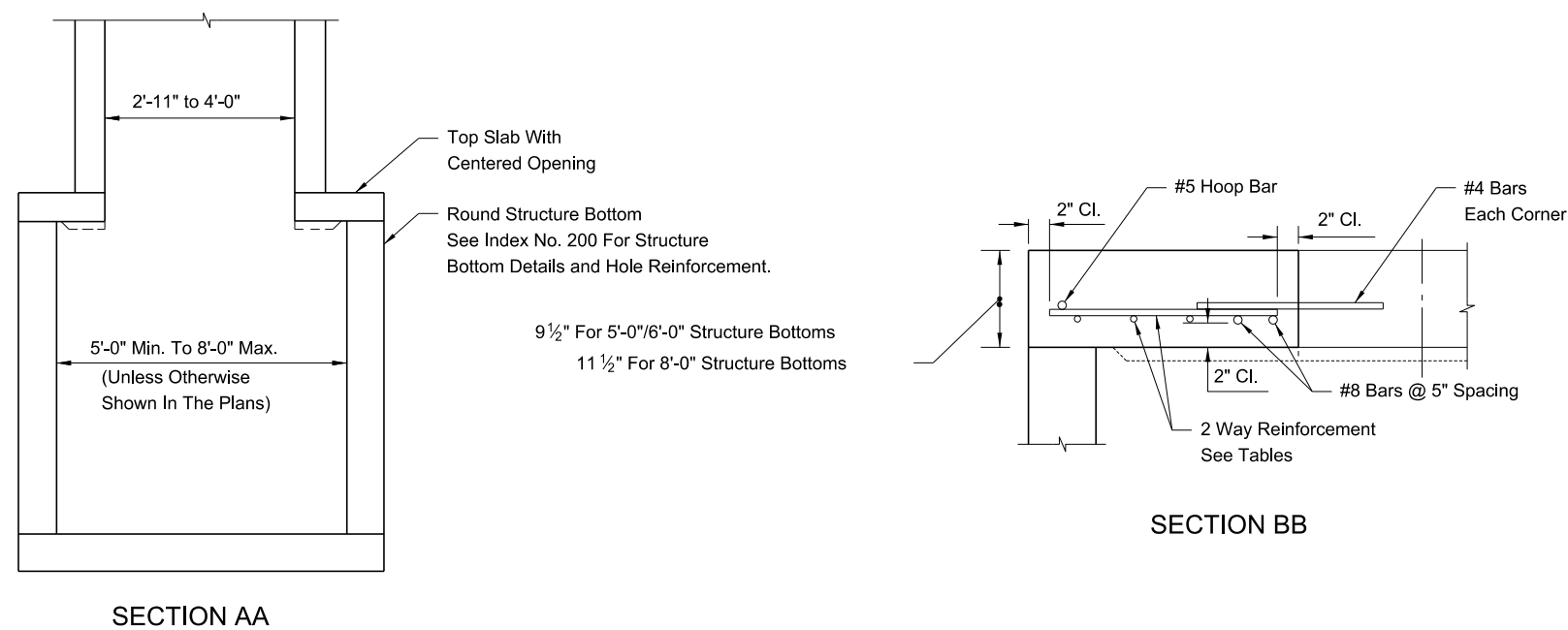
SILT FENCE DETAILS



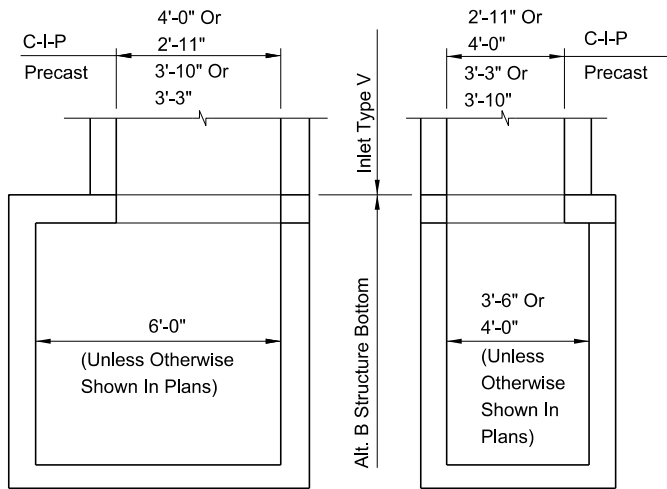


TOP SLAB REINFORCING SCHEDULE	
SCHEDULE	GRADE 60 (BAR) OR 65 KSI & 70 KSI (WIRE FABRIC) In. ² /ft.
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

TOP SLAB WITH CENTERED OPENING		
SLAB DEPTH	SLAB THICKNESS	REINFORCING (2 WAYS) SCHEDULE
SIZE: 5'-0"		
≥0.5' <30'	9 ½"	C
30'-40'	9 ½"	D
SIZE: 6'-0"		
0.5' < 8'	9 ½"	B
8' < 18'	9 ½"	C
18' < 30'	9 ½"	D
30' < 37'	9 ½"	E
37'-40'	9 ½"	G
SIZE: 8'-0"		
≥0.5' < 9'	11 ½"	C
9' < 15'	11 ½"	D
15' < 23'	11 ½"	E
23' < 33'	11 ½"	E
33'-40'	11 ½"	G



ALT. A STRUCTURE BOTTOM FOR INLET TYPE V

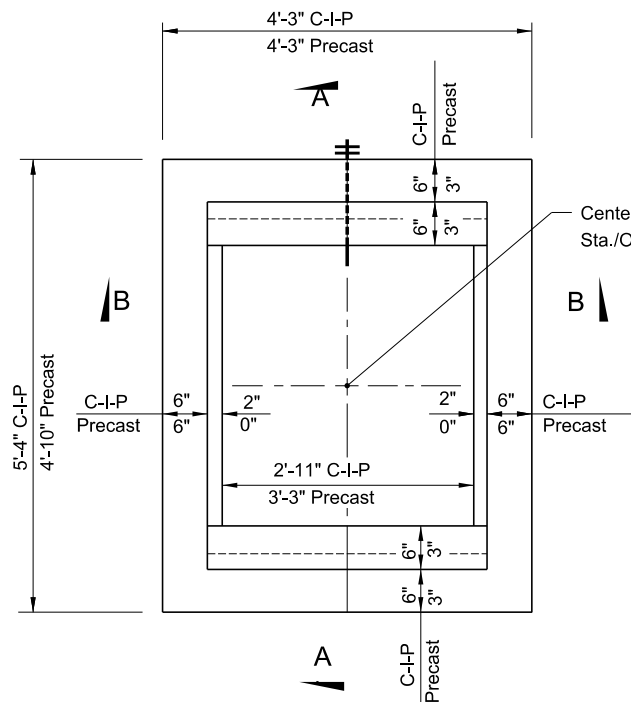


NOTE: Alt. B Structure Bottom Only. See Index No. 200 for structure bottom details and hole reinforcement.
(For Pipes 30" Dia. And Larger)
INLET WITH STRUCTURE BOTTOM

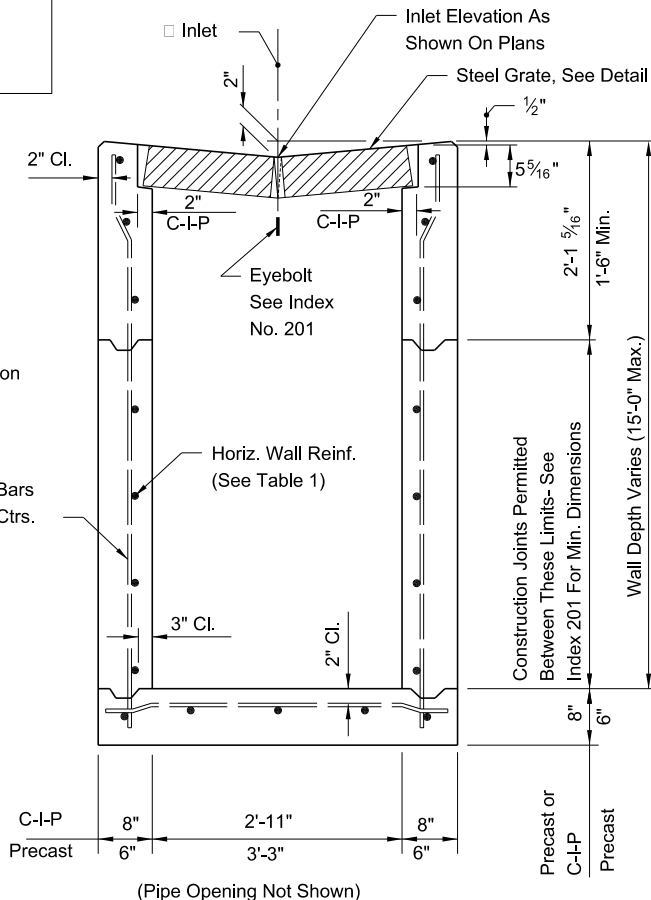
RECOMMENDED MAXIMUM PIPE SIZES

Inlet Inside Width	Pipe Size
2'-11" Or 3'-3"	24"
4'-0" Or 3'-10"	30"

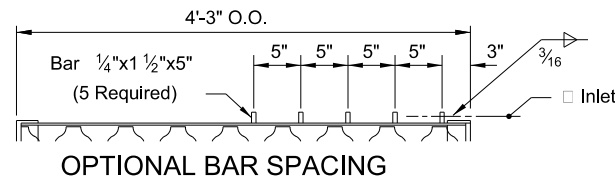
Note: Recommended sizes are for concrete pipe. Sizes for other types of pipe must be verified for fit in accordance with Index No. 201. For larger pipe see bottom detail above and Index No. 200.



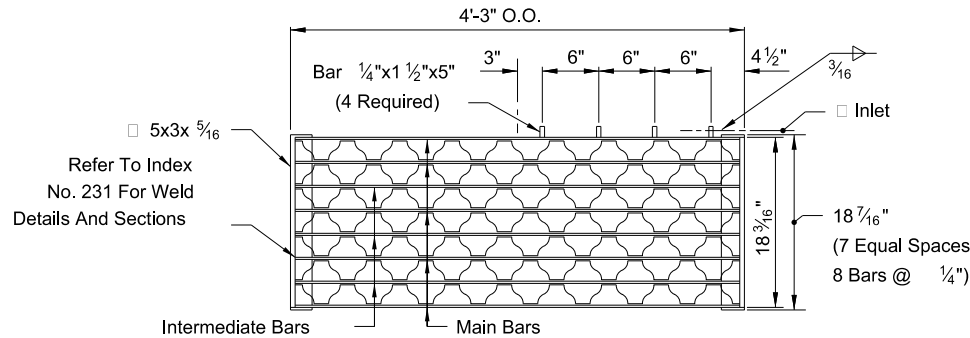
PLAN
(CAST-IN-PLACE INLET SHOWN WITHOUT GRATE; PRECAST INLET SIMILAR)



SECTION BB
(CAST-IN-PLACE INLET SHOWN PRECAST INLET SIMILAR)



OPTIONAL BAR SPACING



TWO REQUIRED PER INLET

5" Steel Grate: Main Bars 5"x 1/4"
Intermediate Bars 1 1/2"x 1/4"
Reticuline Bars 1 1/4"x 3/16"

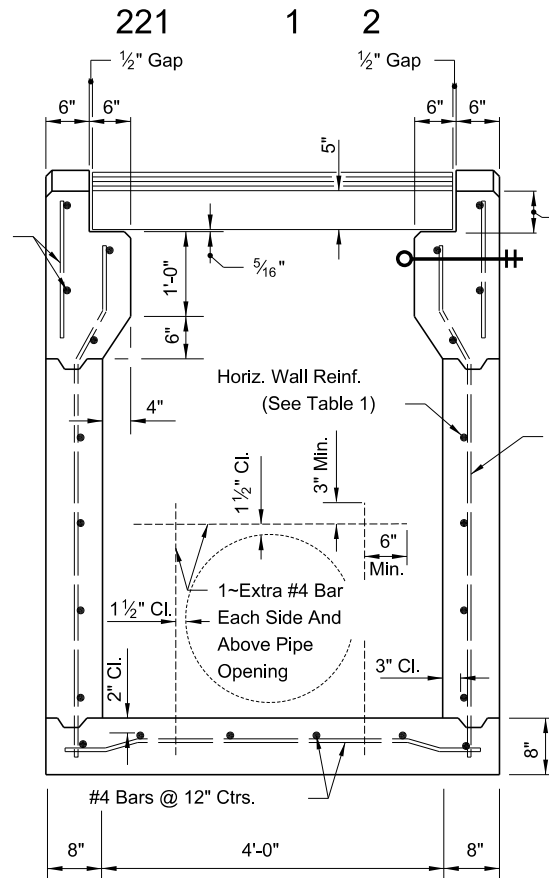
GENERAL NOTES

1. This inlet is suitable for village swales, ditches, or other areas subject to heavy wheel loads, minimum debris. This inlet may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet. This inlet is not for use in a bicycle way.
2. When alternate "G" grate is specified in plans, the grate is to be hot dip galvanized after fabrication.
3. All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. See Index No. 201 for equivalent area of welded wire fabric. Cut or bend bars out of way of pipe to clear pipe 1 1/2".
4. All exposed edges and corners shall be 3/4" chamfer or tooled to 1/4" radius.
5. All dimensions are for both precast and cast-in-place inlets unless otherwise noted.
6. For supplementary details see Index No. 201.
7. Inlet to be paid for under the contract unit price for Inlets (Gutter Type V), EA

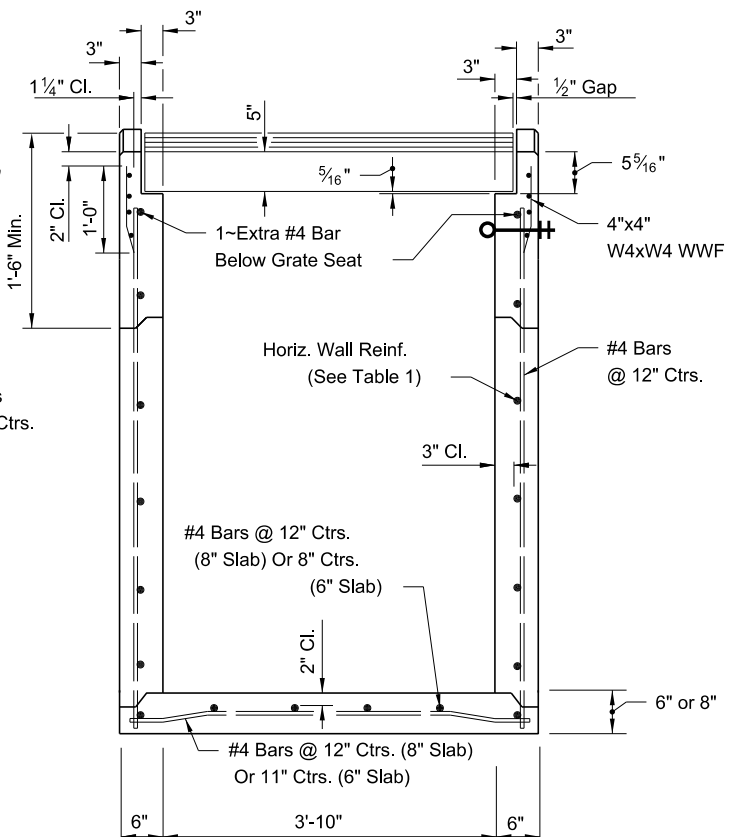
HORIZONTAL WALL REINFORCING

SCHEDULE (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWF
0' - 5'	A12	0.20	12"	8"
5' - 9'	A6	0.20	6"	5"
9' - 12'	A4	0.20	4"	3"
9' - 15'	B5.5	0.24	5 1/2"	5"

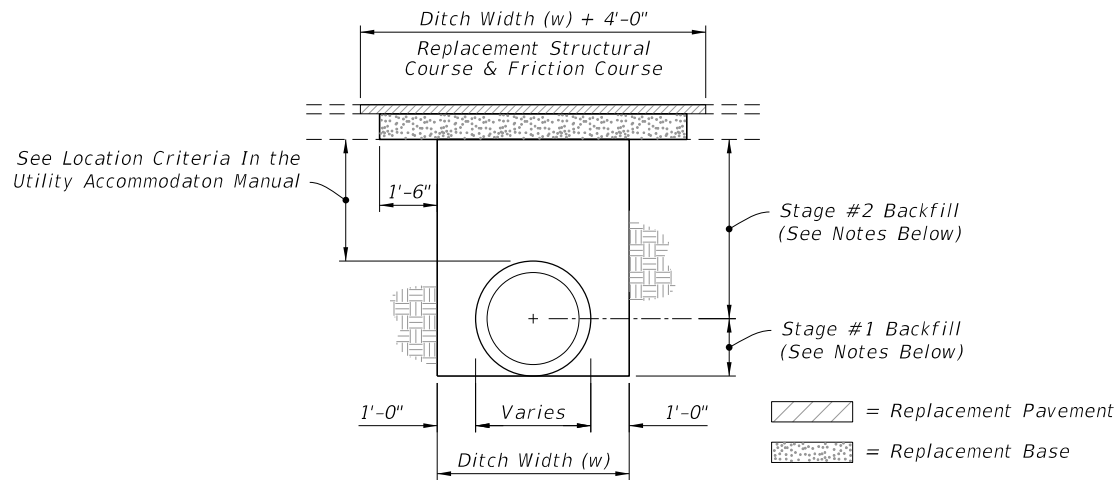


(Pipe Opening Shown)
SECTION AA
(CAST-IN-PLACE INLET)



(Pipe Opening Not Shown)
SECTION AA
(PRECAST INLET)

GUTTER INLET TYPE V



NOTES:
PAVEMENT REMOVAL AND REPLACEMENT

1. Pavement shall be mechanically sawed.
2. The replacement asphalt shall match the existing structural and friction courses for type and thickness in accordance with current FDOT asphalt mix specifications.
3. The new base materials shall be either of the same type and composition as the materials removed or of equal or greater structural adequacy.

BACKFILL OPTION

1. COMPACTED AND STABILIZED FILL

- A. Place backfill material in accordance with Specifications 125.
- B. In Stage #1, construct compacted fill beneath the haunches of the pipe, using mechanical tamps suitable for this purpose. This compaction applies to the material placed beneath the haunches of the pipe and above any bedding.
- C. In Stage #2, construct compacted fill along the sides of the pipe and up to the bottom of the base, with the upper 12" receiving Type B Stabilization. In lieu of Type B Stabilization, the Contractor may construct using Optional Base Group 3.

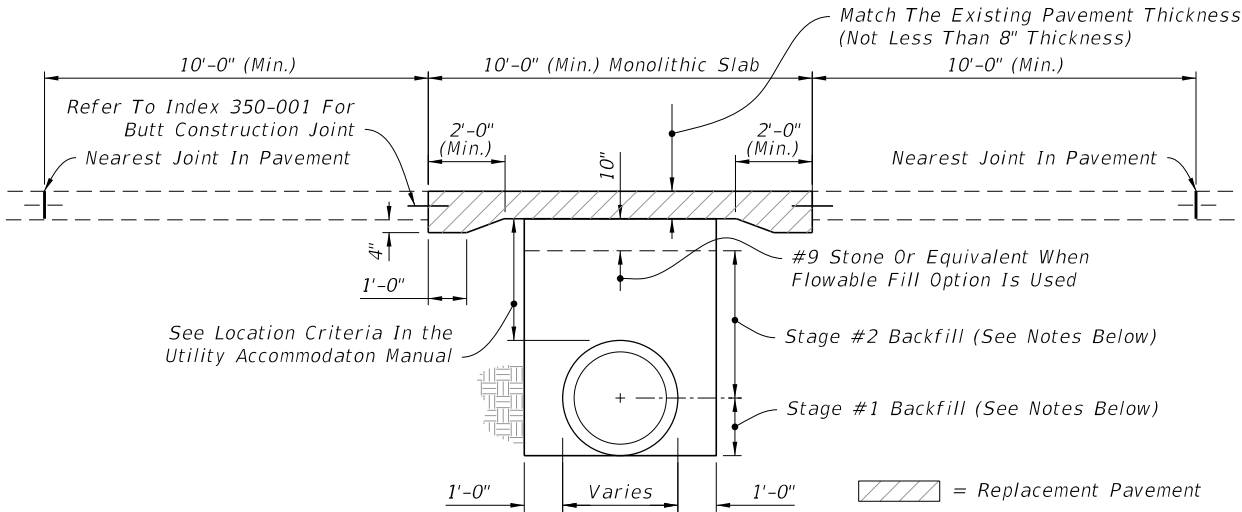
2. FLOWABLE FILL

- A. If compaction can not be achieved through normal mechanical methods then flowable fill may be used.
- B. Flowable fill is to be placed in accordance with Section 121 of the Specifications, as approved by the Engineer.
- C. Do not allow the utility being installed to float. If a method is provided to prevent flotation from occurring, Stages #1 and #2 can be combined, if approved by the Engineer.
- D. In Stage #1, place flowable fill midway up on both sides of the utility. Allow to harden before placing Stage #2.
- E. In Stage #2, place flowable fill to the bottom of the existing base course.

FLEXIBLE PAVEMENT CUT

GENERAL NOTES

1. The details provided in this Index apply to cases in which jack and bore or directional boring methods are not required by the Engineer.
2. Flowable fill shall not be placed directly over loose, or high plastic, or muck material (see Index 120-001) which will cause settlement due to fill weight. Where highly compressible material exists, the amount, shape and depth of flowable fill must be engineered to prevent pavement settlement.
3. These details do not apply to utility cuts longitudinal to the centerline of the roadway which may require the additional use of geotextiles, special bedding and backfill, or other special requirements.
4. Method of construction must be approved by the Engineer.
5. Some pipe may require special granular backfill up to 6" above top of pipe. Geotextiles may be required to encapsulate the special granular material.



NOTES:
PAVEMENT REMOVAL AND REPLACEMENT

1. High early strength cement concrete (3000 psi) meeting the requirements of Standard Specification 346 shall be used for rigid pavement replacement.
2. Pavement shall be mechanically sawed and restored to conform with existing pavement joints within 12 hours. (See Index 350-001)

BACKFILL OPTION

1. GRANULAR BACKFILL

- A. Any edgedrain system that is removed shall be replaced with the same type materials. Any edgedrain system that is damaged shall be repaired with methods approved by the Engineer.
- B. Fill material shall be placed in accordance with the Standard Specifications. Fill material shall be special select soil in accordance with Index 350-001.
- C. In Stage #1, construct compacted fill beneath the haunches of the pipe, using mechanical tamps suitable for this purpose. This compaction applies to the material placed beneath the haunches of the pipe and above any bedding.
- D. In Stage #2, construct fill along the sides of the pipe and up to the bottom of replacement pavement.

2. FLOWABLE FILL

- A. If mechanical compaction can not be achieved through normal mechanical methods then flowable fill may be used.
- B. Flowable fill is to be placed in accordance with Section 121 of the Specifications, as approved by the Engineer.
- C. Do not allow the utility being installed to float. If a method is provided to prevent flotation from occurring, Stages #1 and #2 can be combined, if approved by the Engineer.
- D. In Stage #1, place flowable fill midway up on both sides of the utility. Allow to harden before placing Stage #2.
- E. In Stage #2, place flowable fill to the bottom of the stone layer.

RIGID PAVEMENT CUT

6. Where asphalt concrete overlays exist over full slab concrete pavement, the replacement pavement shall have an overlay constructed over the replacement slab. The overlay shall match the existing asphalt pavement thickness. The replacement friction course shall match the existing friction course, except structural course may be used in lieu of dense graded friction course.
7. All shoulder pavement, curb, curb and gutter, and their substructure disturbed by utility trench cut construction shall be restored in kind.
8. The use of flowable fill to reduce the time traffic is taken off a facility is acceptable but must have prior approval by the Engineer. Flowable fill use is allowed only when properly engineered for pavement crossings, whether straight or diagonal, and shall not be installed for significant depths or lengths. The maximum length shall be fifty (50) feet and a maximum depth of six (6) feet unless supported by an engineering document prepared by a registered professional engineer that specializes in soils engineering. The engineering document shall address the evaluation of local groundwater flow interruption and settlement potential.
9. Excavatable flowable fill is to be used when the flowable fill option is selected.

TRENCH CUTS AND RESTORATIONS ACROSS ROADWAYS

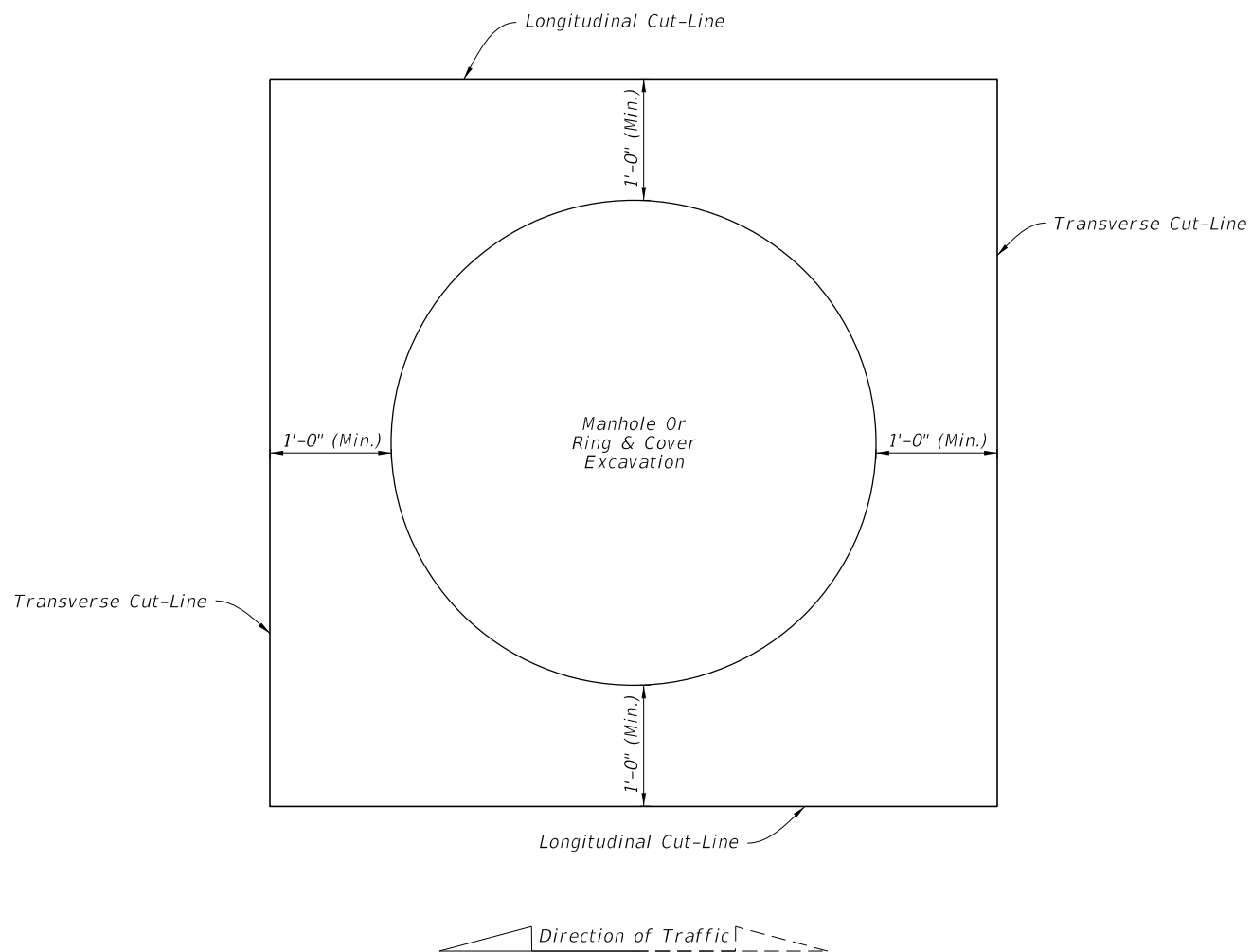


FY 2019-20
STANDARD PLANS

UTILITY ADJUSTMENTS THRU EXISTING PAVEMENT

INDEX
125-001

SHEET
1 of 2



PARTIAL CUTS FOR RING AND COVER ADJUSTMENTS

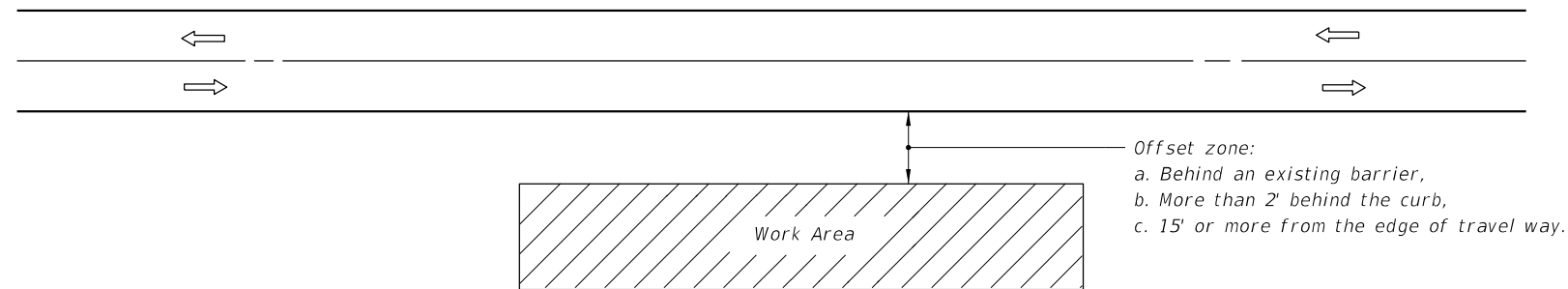
NOTES

1. Cut-Lines must be straight and cleanly sawed.
2. See Sheet 1 for replacement pavement.
3. Adjust manholes prior to placing friction course when pavement resurfacing is occurring in the area adjacent to the manhole.
4. Align Longitudinal Cut-Lines with pavement joint or center of traffic lane to avoid wheel path.
5. For rigid pavement, align Transverse Cut-Lines with nearest existing joint.

NONTRENCH PAVEMENT CUTS FOR UNDERGROUND UTILITY STRUCTURES IN PAVEMENT

LAST REVISION 11/01/17	REVISION	DESCRIPTION:	 FY 2019-20 STANDARD PLANS	UTILITY ADJUSTMENTS THRU EXISTING PAVEMENT	INDEX 125-001	SHEET 2 of 2
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GENERAL NOTES

1. If the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the offset zone in any one hour, traffic control will be in conformance with Index No. 602.
2. No special signing is required.
3. When a side road intersects the highway within the work area, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
4. When construction activities encroach on a sidewalk refer to Index No. 660.
5. For general TCZ requirements and additional information, refer to Index No. 600.

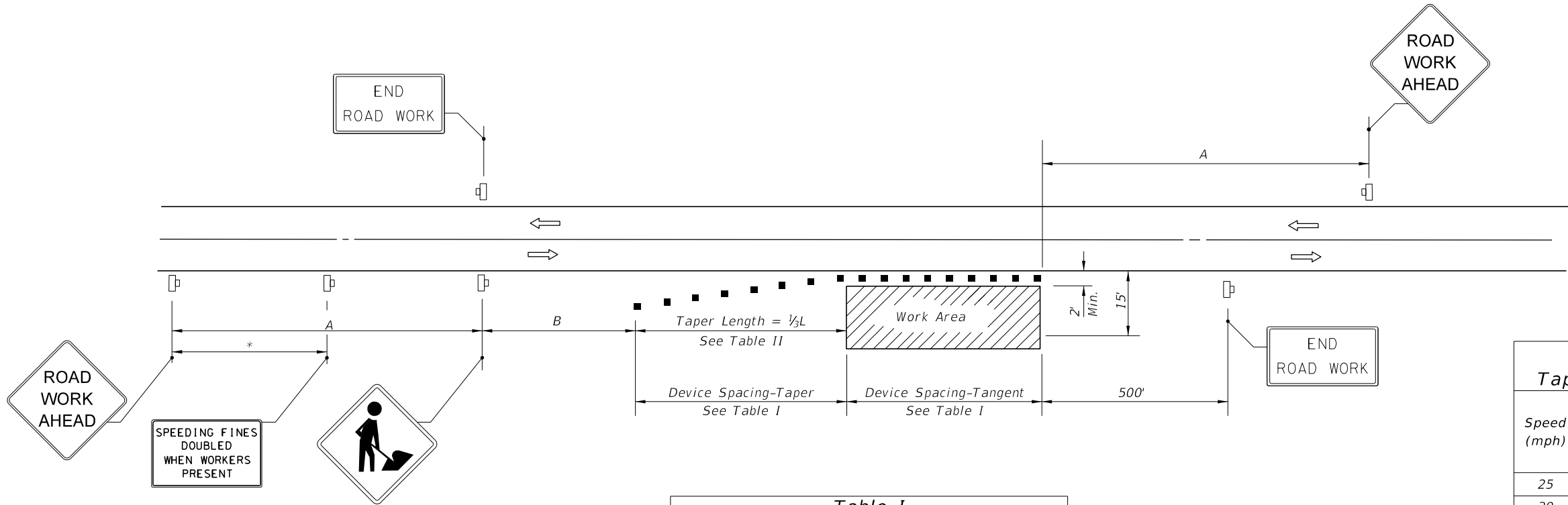
SYMBOLS

-  Work Area
-  Lane Identification + Direction of Traffic

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE BEHIND AN EXISTING BARRIER, MORE THAN 2' BEHIND THE CURB, OR 15' OR MORE FROM THE EDGE OF TRAVEL WAY.

LAST REVISION 07/01/05	REVISION	DESCRIPTION:	 FY 2017-18 DESIGN STANDARDS	TWO-LANE, TWO-WAY, WORK OUTSIDE SHOULDER	INDEX NO. 601	SHEET NO. 1 of 1
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DISTANCE BETWEEN SIGNS		
Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

*Midway between signs.

Table I Device Spacing				
Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Table II Taper Length - Shoulder				
Speed (mph)	1/3 L (ft)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	$L = \frac{WS^2}{60}$
30	40	50	60	
35	55	68	82	
40	72	90	107	$L = WS$
45	120	150	180	
50	133	167	200	
55	147	183	220	
60	160	200	240	
65	173	217	260	
70	187	233	280	

8' minimum shoulder width

1/3 L = Length of shoulder taper in feet

W = Width of total shoulder in feet
(combined paved and unpaved width)

S = Posted speed limit (mph)

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT,
WORKERS OR THEIR ACTIVITIES
ENCROACH THE AREA CLOSER
THAN 15' BUT NOT CLOSER THAN
2' TO THE EDGE OF TRAVEL WAY.

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

- When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index No. 603.
- SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

- Signs and channelizing devices may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

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FY 2017-18
DESIGN STANDARDS

TWO-LANE, TWO-WAY, WORK ON SHOULDER

INDEX
NO.
602

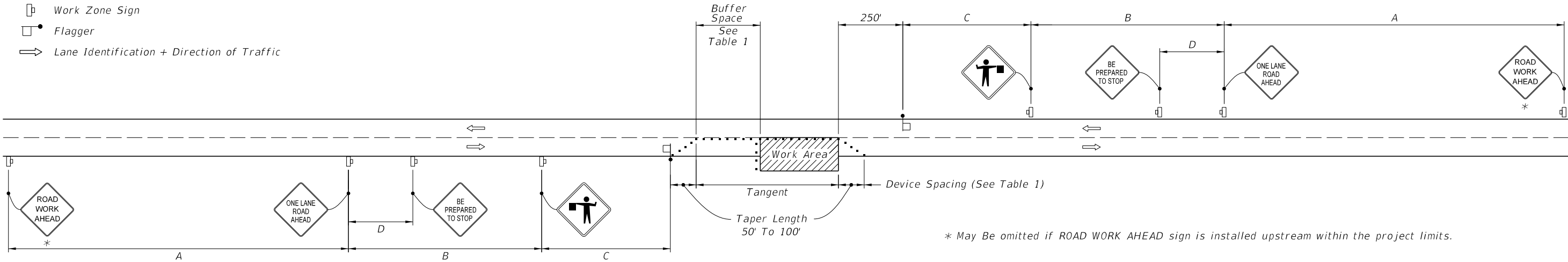
SHEET
NO.
1 of 1

LAST
REVISION
07/01/15

REVISION

DESCRIPTION:

- SYMBOLS:
- Work Area
 - Channelizing Device (See Index No. 600)
 - Work Zone Sign
 - Flagger
 - Lane Identification + Direction of Traffic



WITHOUT TEMPORARY RAISED RUMBLE STRIPS

GENERAL NOTES:

1. Special Conditions may be required in accordance with these notes and the following sheets:

A. Railroad Crossings:

 - a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 3.
 - b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

B. If the Work Area encroaches on the Centerline, use the Layout for Temporary Lane Shift to Shoulder on Sheet 3 only if the Existing Paved Shoulder width is sufficient to provide for an 11' lane between the Work Area and the Edge of Existing Paved Shoulder. Reduce the posted speed when appropriate.
2. Temporary Raised Rumble Strips:

A. Use when both of the following conditions are met concurrently:

 - a. Existing Posted Speed is 55 mph or greater;
 - b. Work duration is greater than 60 minutes.

B. Use a consistent Strip color throughout the work zone.

C. Place each Rumble Strip Set transversely across the lane at locations shown.

D. Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.
3. Additional one-way control may be provided by the following means:

 - A. Flag-carrying vehicle;
 - B. Official vehicle;
 - C. Pilot vehicles;
 - D. Traffic signals.
4. When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable TCZ Indexes.

5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.

6. When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft, for posted speeds greater than 25 mph.

7. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:

 - A. Work operations are 60 minutes or less.
 - B. Speed limit is 45 mph or less.
 - C. There are no sight obstructions to vehicles approaching the work area for a distance equal to the Buffer Space shown in Table 1.
 - D. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - E. Volume and complexity of the roadway has been considered.
 - F. If a railroad crossing is present, vehicles will not queue across rail tracks.
 - G. AFADs are not in use.
8. See Index 600 for general TCZ requirements and additional information.

9. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specifications Section 102, 990 and the APL vendor drawings.

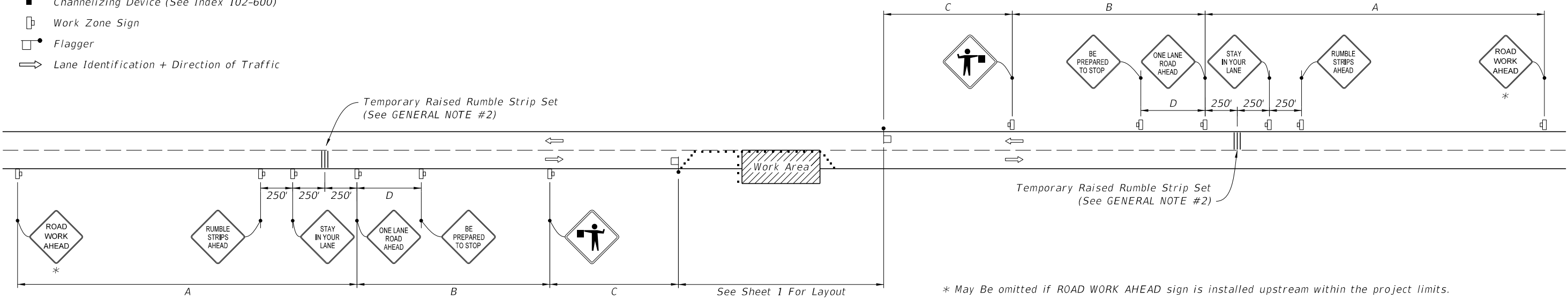
When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.

TABLE 1									
Posted Speed	DEVICE SPACING				Distance Between Signs				Buffer Space
	Maximum Spacing of Cones or Tubular Markers		Maximum Spacing of Type I or Type II Barricades/Panels/Drums						
	On a Taper	On a Tangent	On a Taper	On a Tangent	A	B	C	D	
25	20'	50'	20'	50'	200'	200'	200'	100'	155'
30	20'	50'	20'	50'	200'	200'	200'	100'	200'
35	20'	50'	20'	50'	200'	200'	200'	100'	250'
40	20'	50'	20'	50'	200'	200'	200'	100'	305'
45	20'	50'	20'	50'	350'	350'	350'	175'	360'
50	20'	50'	20'	100'	500'	500'	500'	250'	425'
55	20'	50'	20'	100'	2640'	1500'	1000'	500'	495'
60	20'	50'	20'	100'	2640'	1500'	1000'	500'	570'
65	20'	50'	20'	100'	2640'	1500'	1000'	500'	645'
70	20'	50'	20'	100'	2640'	1500'	1000'	500'	730'

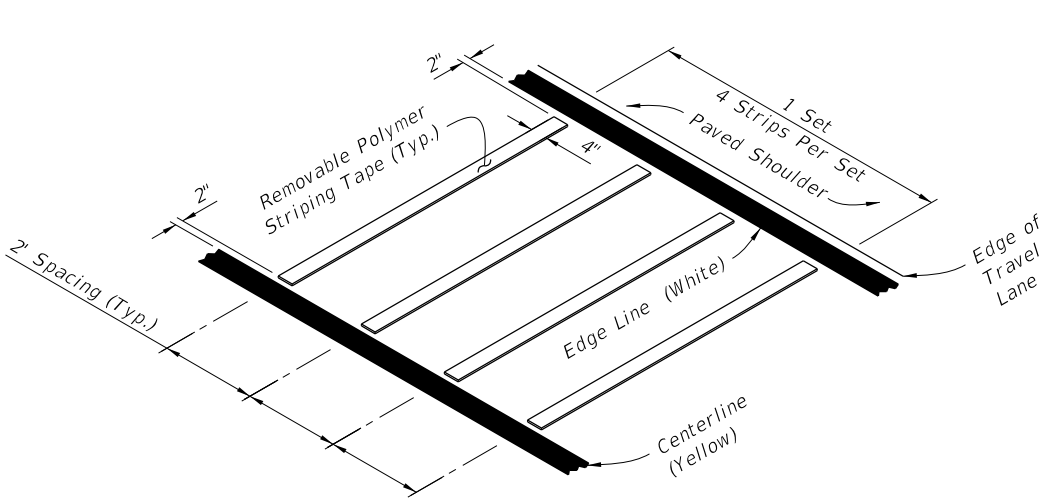
CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Work Zone Sign
 - Flagger
 - Lane Identification + Direction of Traffic

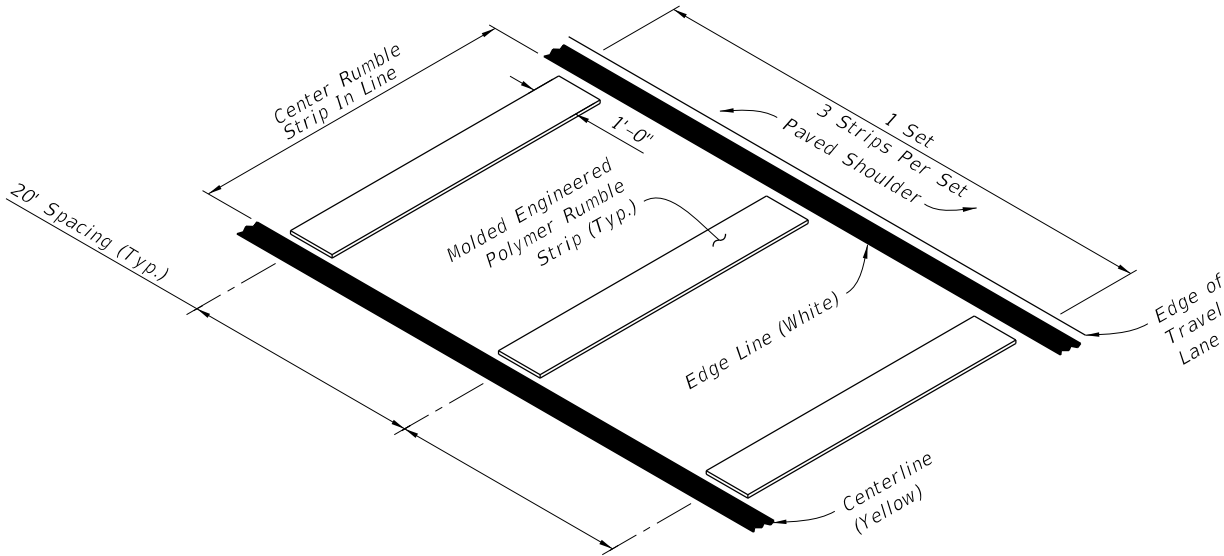


WITH TEMPORARY RAISED RUMBLE STRIPS
(When Required See GENERAL NOTE #2)



REMOVABLE POLYMER STRIPING TAPE

RUMBLE STRIP SET
OPTION - 1

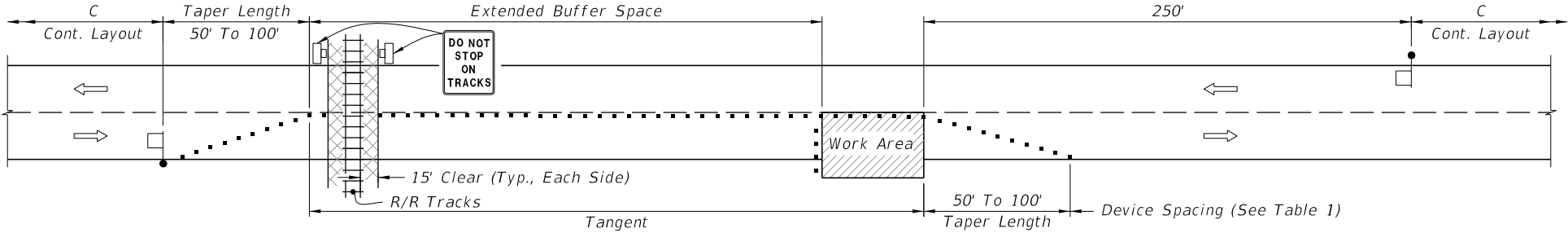


MOLDED ENGINEERED POLYMER SET

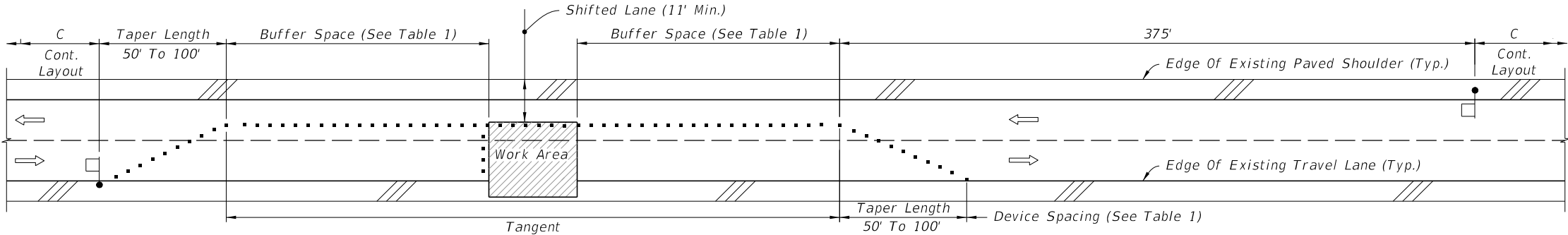
RUMBLE STRIP SET
OPTION - 2

TEMPORARY RAISED RUMBLE STRIPS

- SYMBOLS:
-  Work Area
 -  Channelizing Device (See Index No. 600)
 -  Work Zone Sign
 -  Flagger
 -  Lane Identification + Direction of Traffic



TEMPORARY RAILROAD CROSSING BUFFER SPACE EXTENSION



TEMPORARY LANE SHIFT TO SHOULDER WHEN
WORK AREA ENCROACHES ON THE CENTERLINE

SPECIAL CONDITIONS

Cross Rerence:
1. See General Note #1, Sheet 1 for more information.

SPECIAL CONDITIONS

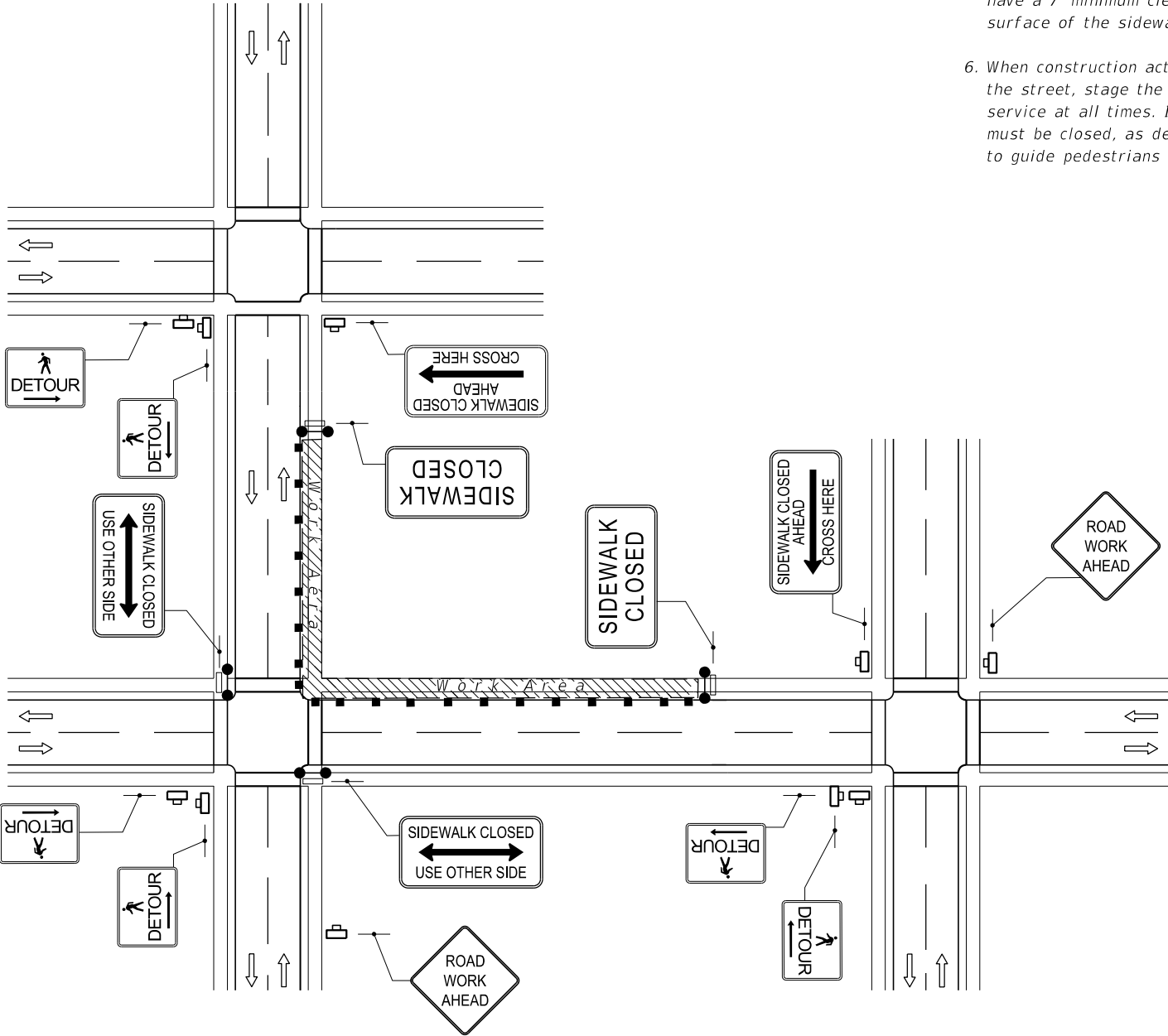
LAST REVISION 01/01/16	REVISION	DESCRIPTION:	 FY 2017-18 DESIGN STANDARDS	TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY	INDEX NO. 603	SHEET NO. 3 of 3
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SYMBOLS

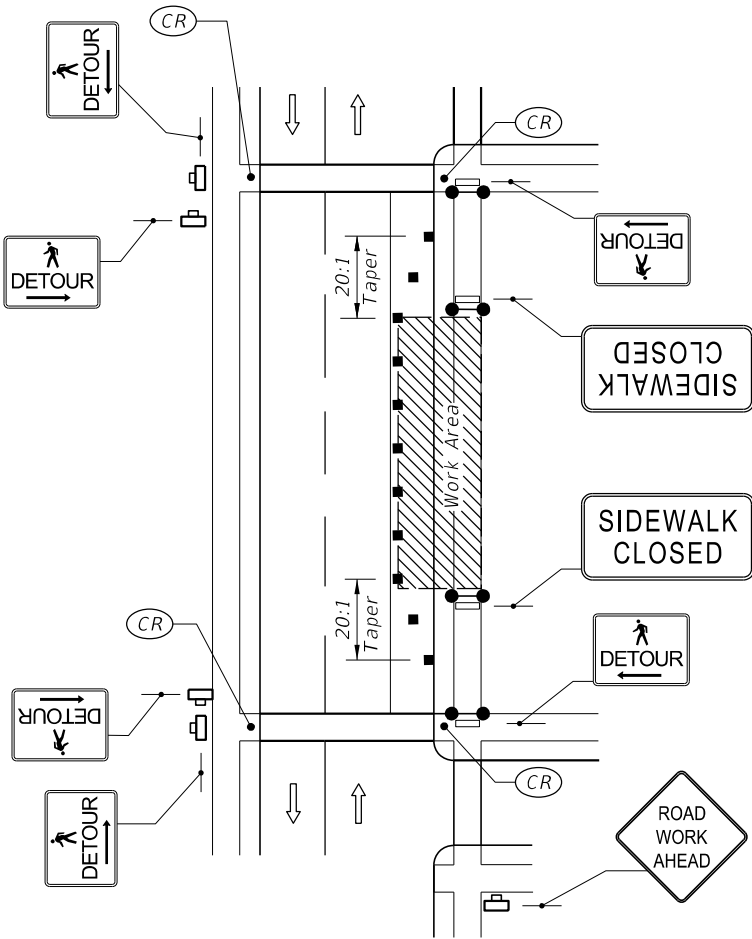
- Work Area
- Channelizing Device (See Index 600)
- Work Zone Sign
- Required Locations For Either Temporary Or Permanent Curb Ramps.
- Lane Identification + Direction of Traffic
- Pedestrian Longitudinal Channelizing Device (LCD) with Mounted Work Zone Sign or separate Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)

GENERAL NOTES

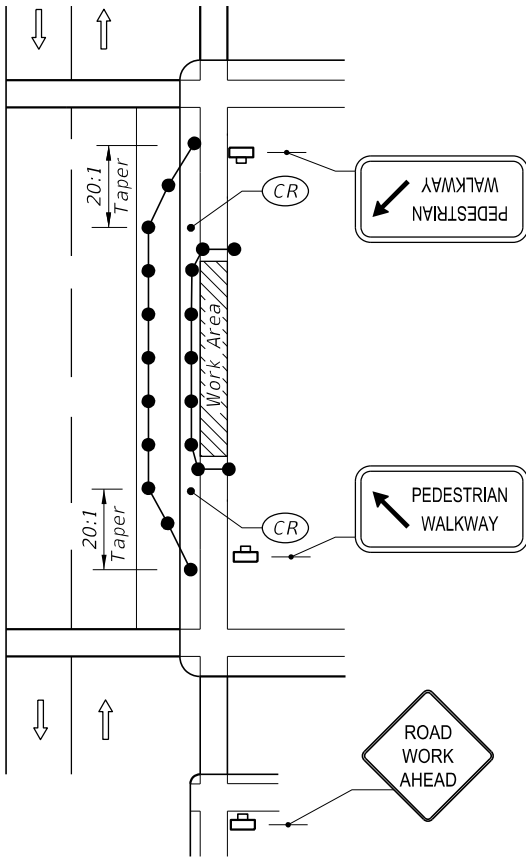
- Route pedestrian traffic around work areas when construction activities encroach on the sidewalk for more than 60 minutes using the devices and remedies shown on this Index. Use project specific designs for scenarios not included on this Index.
- For spacing of traffic control devices and general TCZ requirements refer to Index 600. The maximum spacing between barricades, vertical panels, drums or tubular markers is 25'.
- Use delineators on longitudinal channelizing devices separating the work area from vehicular traffic.
- Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
- Post mounted signs located near or adjacent to a sidewalk must have a 7' minimum clearance from the bottom of sign to the surface of the sidewalk.
- When construction activities involve sidewalks on both sides of the street, stage the construction so that one sidewalk is in service at all times. If this is not feasible and both sidewalks must be closed, as determined by the Engineer, provide a detour to guide pedestrians around the construction zone.
- Provide a 5' wide temporary walkway, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary walkways less than 5' in width at intervals not to exceed 200'.
- Provide a cross-slope with a maximum value of 0.02 for all temporary walkways.
- Temporary walkway surfaces and ramps must be stable, firm, slip resistant, and kept free of any obstructions and hazards such as holes, debris, mud, construction equipment and stored materials.
- Remove temporary walkways immediately after reopening of the sidewalk, unless otherwise noted in the plans.
- Meet the requirements of Index 304 for temporary curb ramps.
- Place pedestrian longitudinal channelizing device(s) across the full width of the closed sidewalk. For temporary walkways, similar to the Sidewalk Diversion, place LCD's to delineate both sides of the temporary walkway.



CROSSWALK CLOSURE AND PESESTRIAN DETOUR

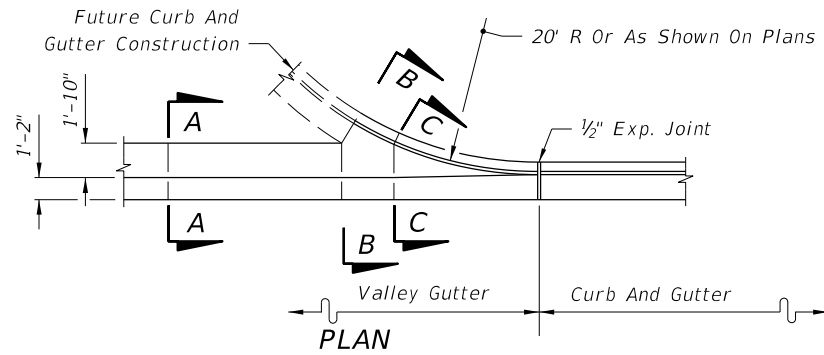


SIDEWALK DETOUR

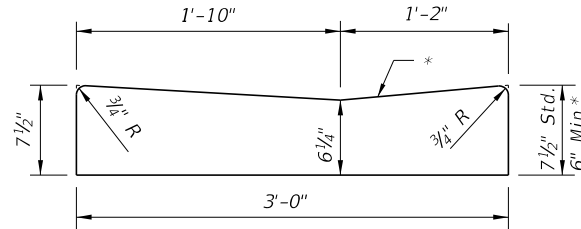


SIDEWALK DIVERSION

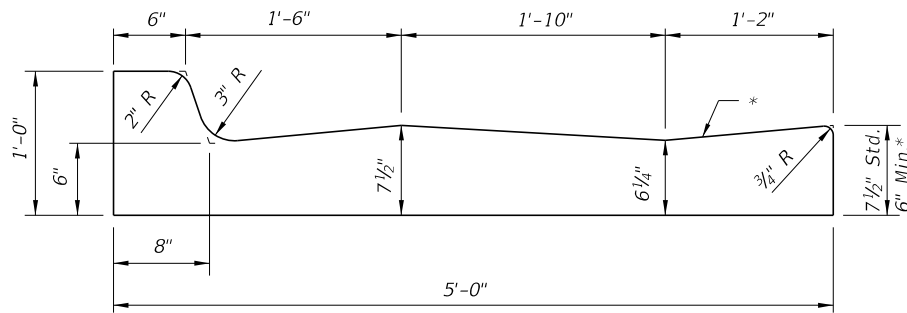
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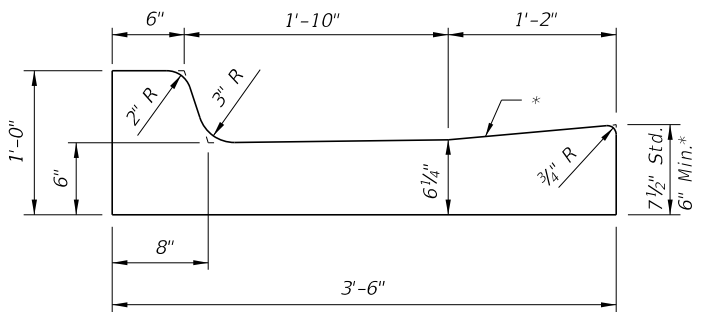
PLAN



SECTION AA



SECTION BB



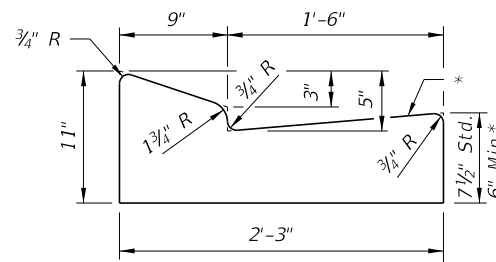
SECTION CC

VALLEY GUTTER

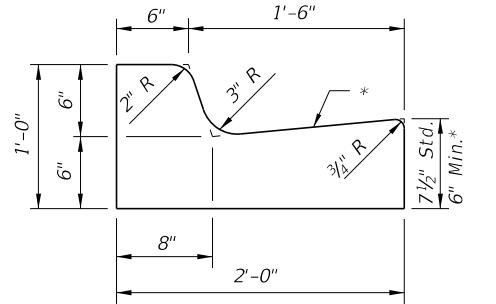
* When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The thickness of the lip shall be 6", unless otherwise shown on plans.

▣ Rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.

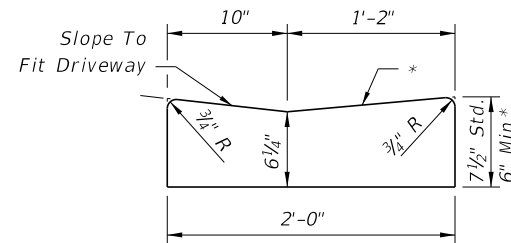
For use adjacent to concrete or flexible pavement. For details depicting usage adjacent to flexible pavement, see Sheet 2. Expansion joint, preformed joint filler and joint seal are required between curb & gutter and concrete pavement only, see Sheet 2.



TYPE E

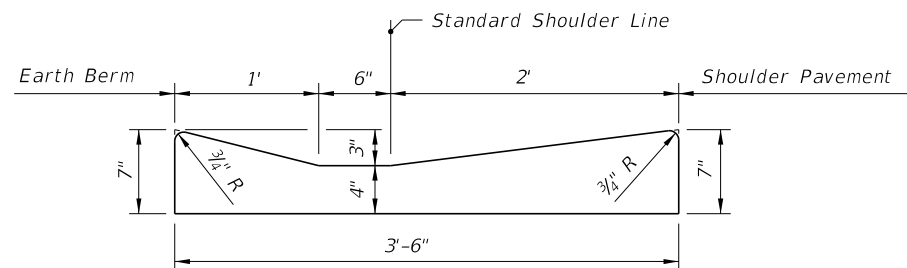


TYPE F

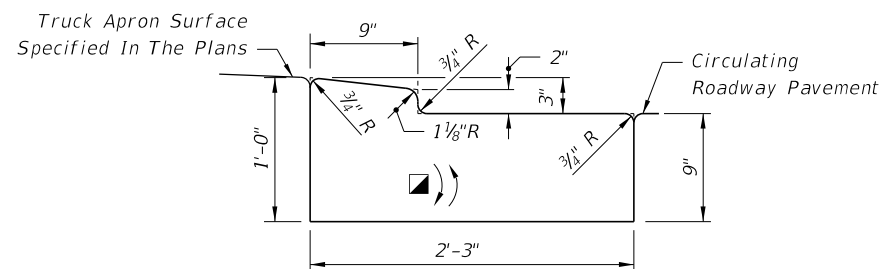


Note: To be paid for as parent curb.

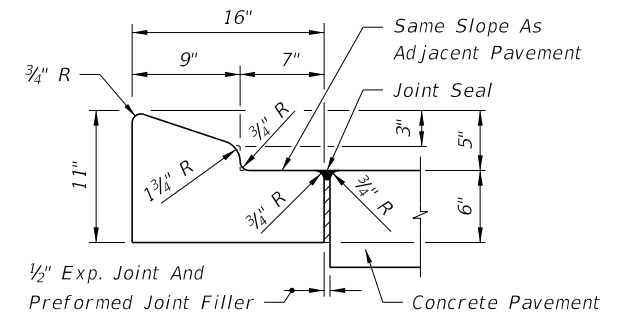
DROP CURB



SHOULDER GUTTER

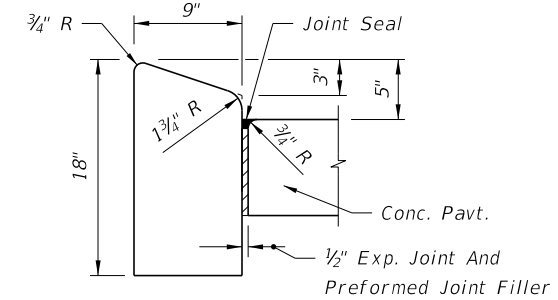


TRAFFIC BEARING SECTION FOR USE IN ROUNDABOUT CENTRAL ISLAND CONSTRUCTION
TYPE RA

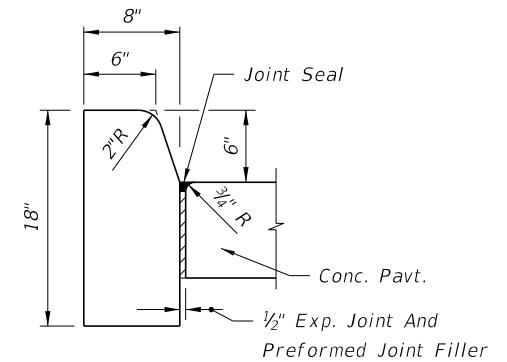


For details depicting usage adjacent to flexible pavement, see diagram right.

TYPE A



TYPE B



TYPE D

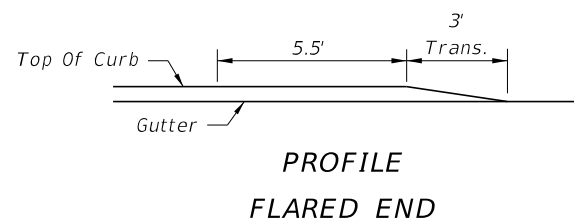
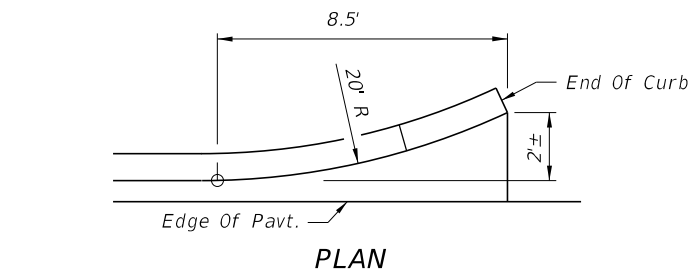
Note: For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 2.

CONCRETE CURB

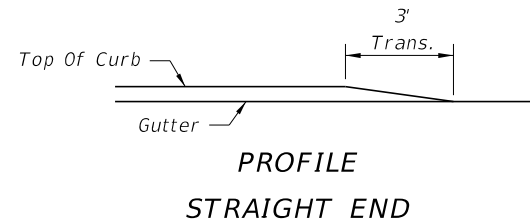
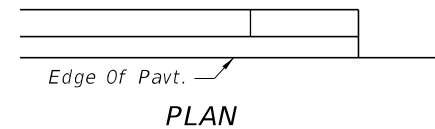
CONCRETE CURB AND GUTTER

LAST REVISION	DESCRIPTION:	FY 2017-18 DESIGN STANDARDS	CURB & CURB AND GUTTER	INDEX NO.	SHEET NO.
07/01/00				300	1 of 2

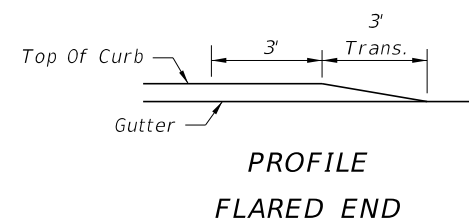
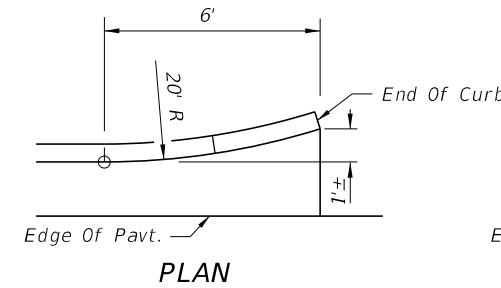
10/12/2016 9:30:17 AM



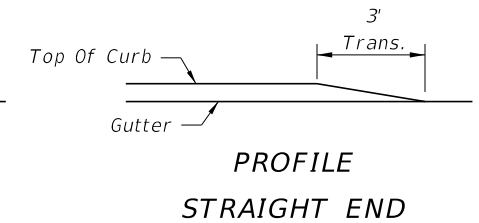
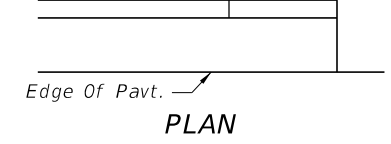
CURB TYPE A



PROFILE
STRAIGHT END



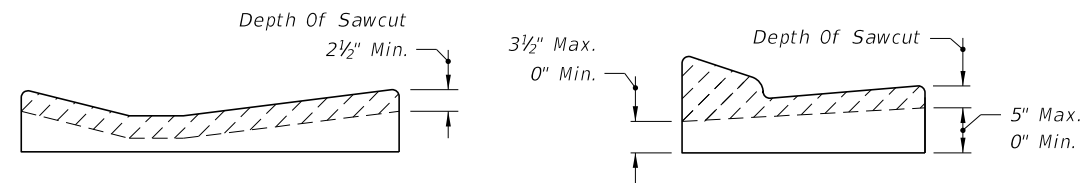
PROFILE
FLARED END



PROFILE
STRAIGHT END

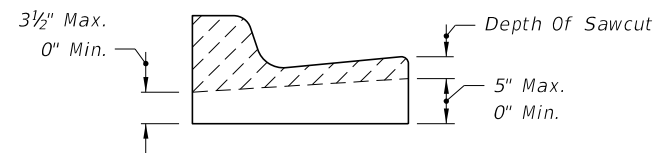
CURB AND GUTTER TYPES E & F

CURB AND GUTTER ENDINGS



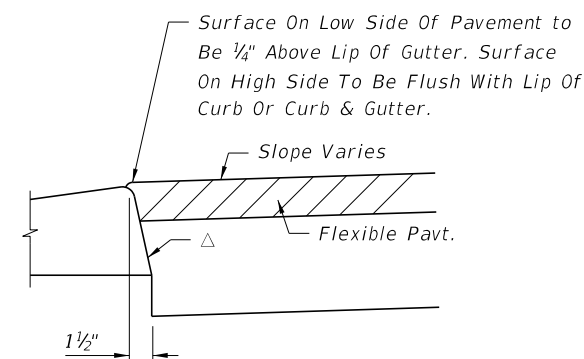
SHOULDER GUTTER

TYPE E



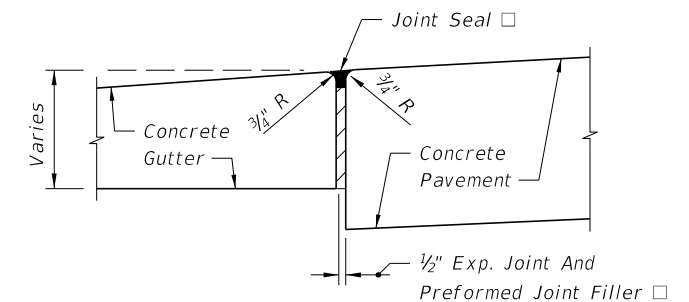
TYPE F

Sawcuts should be avoided within valley gutter and within curb and gutter endings.
CONTRACTION JOINT IN CURB AND GUTTER



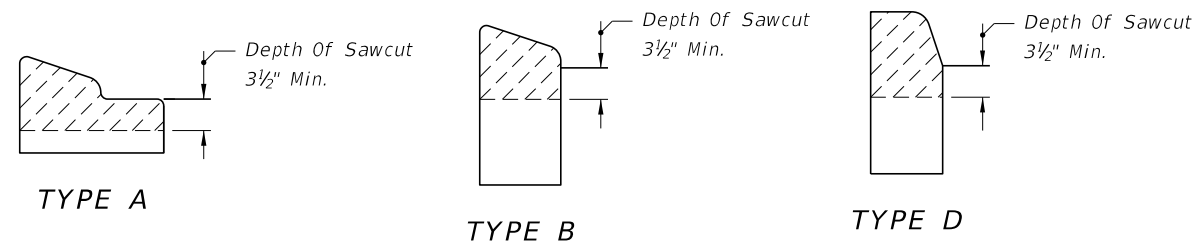
△ Applies to both high and low sides of pavement, low side shown.
Applies to shoulder gutter only where adjoining traffic lanes.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



□ Applies to both high and low sides of pavement, low side shown.

EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

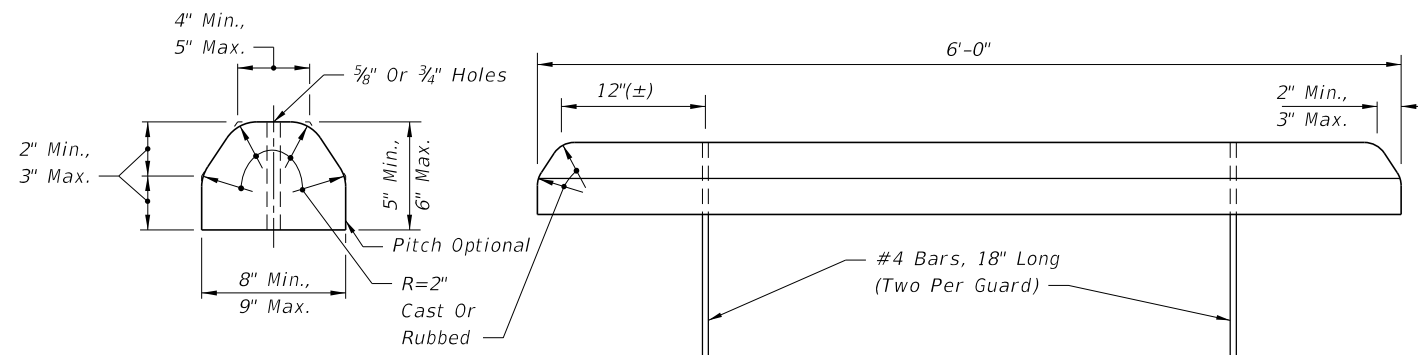


TYPE A

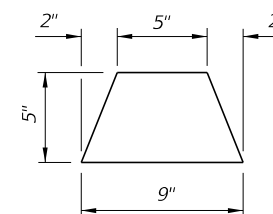
TYPE B

TYPE D

CONTRACTION JOINT IN CURB



CONCRETE BUMPER GUARD

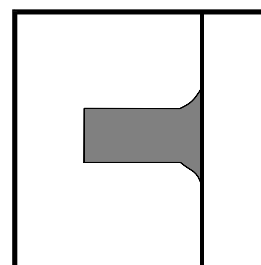
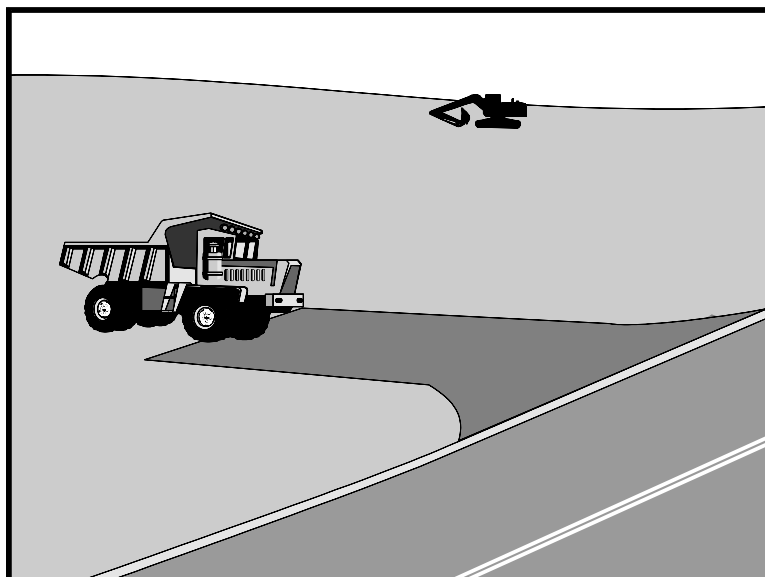


ASPHALTIC CONCRETE CURB

GENERAL NOTES

1. For curb, gutter and curb & gutter provide 1/8" - 1/4" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers. Curb, gutter and curb & gutter expansion joints shall be located in accordance with Section 520 of the Standard Specifications.
2. Ends of Curbs Types B and D shall transition from full to zero heights in 3'.

LAST REVISION 07/01/00	REVISION	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	CURB & CURB AND GUTTER	INDEX NO. 300	SHEET NO. 2 of 2
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Standard Symbol

BMP Objectives

- Soil Stabilization
- Sediment Control
- Tracking Control
- Wind Erosion Control
- Non-Storm Water Management
- Materials and Waste Management

Definition and Purpose

A stabilized construction access is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Appropriate Applications

- Use at construction sites:
 - Where dirt or mud can be tracked onto public roads.
 - Adjacent to water bodies.
 - Where poor soils are encountered.
 - Where dust is a problem during dry weather conditions.
- This BMP may be implemented on a project-by-project basis in addition to other BMPs when determined necessary and feasible by the Resident Engineer (RE).

Limitations

- Site conditions will dictate design and need.

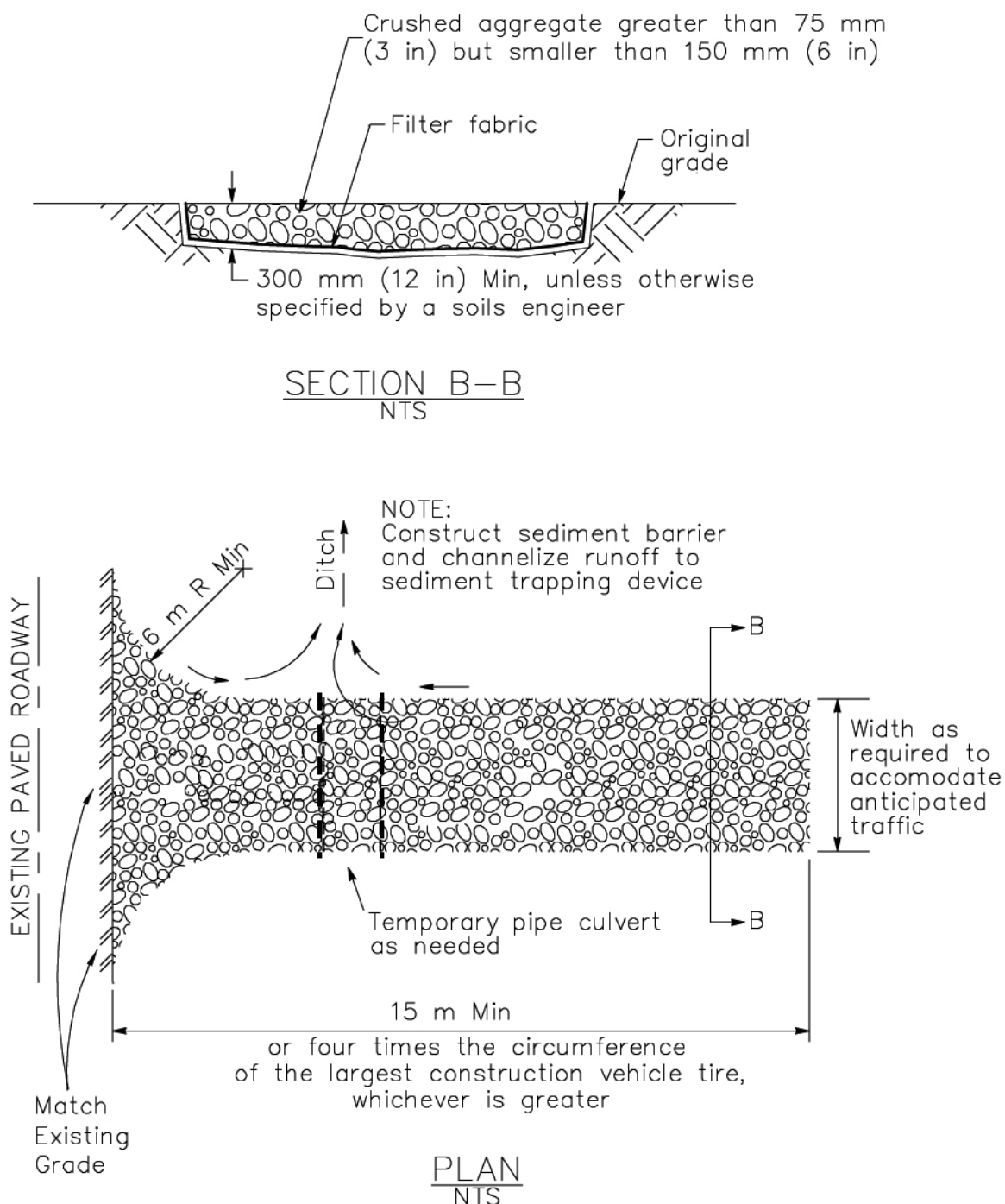
Standards and Specifications

- Limit the points of entrance/exit to the construction site.
- Limit speed of vehicles to control dust.
- Properly grade each construction entrance/exit to prevent runoff from leaving the construction site.
- Route runoff from stabilized entrances/exits through a sediment-trapping device before discharge.
- Design stabilized entrance/exit to support the heaviest vehicles and equipment that will use it.

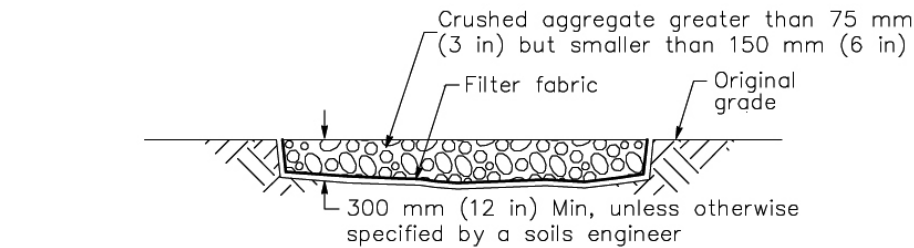
- Select construction access stabilization (aggregate, asphaltic concrete, concrete) based on longevity, required performance, and site conditions. The use of asphalt concrete (AC) grindings for stabilized construction access/roadway is not allowed.
- Use of constructed/manufactured steel plates with ribs for entrance/exit access is allowed with written approval from the RE.
- If aggregate is selected, place crushed aggregate over geotextile fabric to at least 300 mm (12 in) depth, or place aggregate to a depth recommended by the RE. Crushed aggregate greater than 75 mm (3 inches) and smaller than 150 mm (6 inches) shall be used.
- Designate combination or single purpose entrances and exits to the construction site.
- Implement BMP SC-7, “Street Sweeping and Vacuuming” as needed and as required.
- Require all employees, subcontractors, and suppliers to utilize the stabilized construction access.
- All exit locations intended to be used continuously and for a period of time shall have stabilized construction entrance/exit BMPs (TC-1 “Stabilized Construction Entrance/Exit” or TC-3 “Entrance/Outlet Tire Wash”).

Maintenance and Inspection

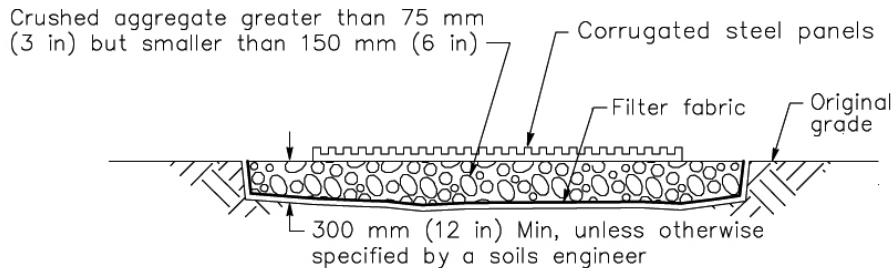
- Inspect routinely for damage and assess effectiveness of the BMP. Remove aggregate, separate and dispose of sediment if construction entrance/exit is clogged with sediment or as directed by the RE.
- Keep all temporary roadway ditches clear.
- Inspect for damage and repair as needed.



Stabilized Construction Entrance/Exit (Type 1)

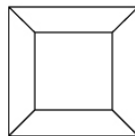


SECTION B-B
NTS

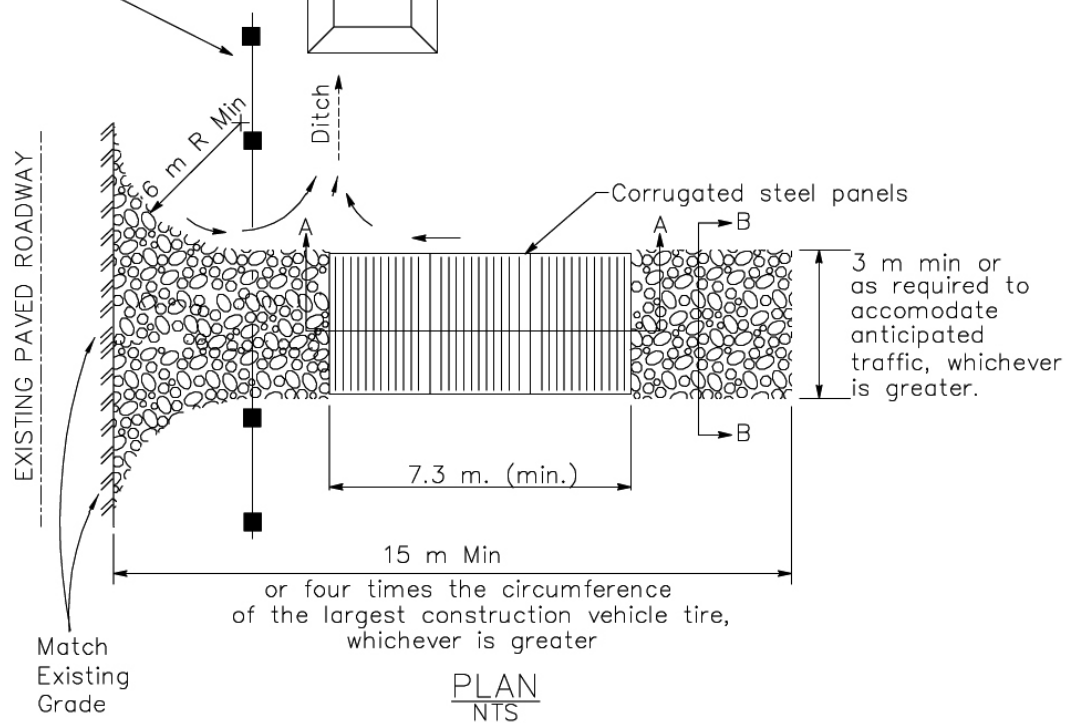


SECTION A-A
NOT TO SCALE

NOTE:
Construct sediment barrier
and channelize runoff to
sediment trapping device



Sediment trapping
device



Stabilized Construction Entrance/Exit (Type 2)